



Vidyavardhini's College of Engineering & Technology

Founder President Late Padmashri H. G. Vartak

Approved by AICTE, DTE Maharashtra and Affiliated to University of Mumbai
NAAC accredited, 4 Programmes Accredited by NBA

Criteria Number: 1

Criteria Name: Curricular Planning and Implementation

Sub criteria Number: 1.2.1

Sub-criteria Name: Academic Flexibility

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed during the last five years)

This document contains the criteria summary and the associated proofs. The documentary evidence can be accessed by clicking on the link given.

Value Added Courses/Online Courses

Year	No. of Value-Added Courses	No. of Online Courses	Total	Number of Students Completed the Course
2022-2023	17	20	37	1207
2021-2022	12	10	22	967
2020-2021	09	16	25	662
2019-2020	05	31	36	452
2018-2019	04	10	14	641
Total	47	87	134	3929

Details of Value-Added Courses/Online Courses

Year	2018-2019		2019-2020		2020-2021		2021-2022		2022-23	
	No. of Value-Added Courses	No. of Online Courses	No. of Value-Added Courses	No. of Online Courses	No. of Value-Added Courses	No. of Online Courses	No. of Value-Added Courses	No. of Online Courses	No. of Value-Added Courses	No. of Online Courses
Mechanical	-	5	-	2	-	8	-	4	1	2



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Engineering										
Electronics & Telecommunication Engineering	-	-	-	-	2	2	2	1	5	5
Instrumentation Engineering	-	1	-	3	1	-	-	-	-	-
Computer Engineering	-	1	-	12	2	1	2	4	4	9
Information Technology	1	3	2	14	2	5	-	-	2	-
Civil Engineering	-	-	-	-	-	-	2	-	2	-
Computer Science and Engineering (Data Science)	-	-	-	-	-	-	-	-	-	2
Artificial Intelligence & Data Science	-	-	-	-	-	-	-	1	1	2
Institute Level	3	-	3	-	2	-	6	-	2	-
Total	4	10	5	31	9	16	12	10	17	20



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Supporting Documents

Institutional Programme brochure/Notice with Course modules	1.2.1 Institutional Programme brochure/Notice with Course modules 2022-23
	1.2.1 Institutional Programme brochure/Notice with Course modules 2021-22
	1.2.1 Institutional Programme brochure/Notice with Course modules 2020-21
	1.2.1 Institutional Programme brochure/Notice with Course modules 2019-20
	1.2.1 Institutional Programme brochure/Notice with Course modules 2018-19

2022-23

1_Creo Design
Software

To,
THE PRINCIPAL,
VCET Vasai.

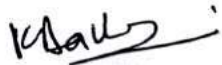
Subject: Appointment of Adjunct Faculty in Mechanical Department for A.Y 2022-23


Respected Sir,


Mechanical Engineering Department have identified Mr. Milind Patil as an Adjunct Faculty for A.Y 2022-23. The Bio data of Mr. Milind Patil is attached herewith for your reference.

I request you to approve the appointment of Mr. Milind Patil as an Adjunct Faculty in Mechanical Department for A.Y 2022-23 from 09th Jan, 2023 onwards.

Thanking You.


Prof. Kamlesh Bachkar
Mechanical Department


Dr. Uday Aswalekar
HOD, Mechanical Department
please permit

To
Registration. Approval
- Approved
- Pl. issue. appointment
letter

5/11/23

Vidyavardhinis College of Engineering & Technology Vasai
Department of Mechanical Engineering
Report on Adjunct Faculty Lecture conducted for BE Students in A.Y 2022-23

Department of Mechanical Engineering had organized Expert lecture by Adjunct Faculty on topic of Creo Software Design for the student of BE Mech (A & B) Division from 10 Jan 2023 to 14 Jan 2023. The Adjunct Faculty for the sessions was Mr. Milind Patil, CAD Engineer, Cadline Infotech.

Mr. Patil initiated to solve problems related to Computer Aided Drawings by using CAD Modeling Software like CREO. Students were given Assignments and Quizzes on daily basis. Final exam was conducted for all participants students, and those who got passed were issued Certificates.

Program Outcomes relevant to this session were – PO1, PO2, PO3, PO5, PO8, PO10, PO12, PSO1, PSO2.



Prof. Kamlesh Bachkar

Mechanical Department

Syllabus

- The fundamentals of CREO Parametric.
- Sketching and Extruding
- Solid and Surface Modelling
- Using the Pattern Tools
- Using and creating Datum Features such as Axis, Planes and Points
- Using the Chamfer and Round Tools
- Using the Revolve and Thicken Tools
- Using Blend and Rotational Blends
- Creating Rib Features
- Using the Style Tool for complex Surface Modelling
- Creating Swept Blends
- Creating Variable Section Sweeps
- Creating Professional Engineering Drawings
- Using the Hole Tools
- Using the Boundary Blend Tool
- Editing Geometry and Features
- Toroidal Bends and Spinal Bends
- Assemblies, including mechanism constraints.

Assessment criteria

Certificates will be provided to the students, if they can complete the given design project in stipulated time period.

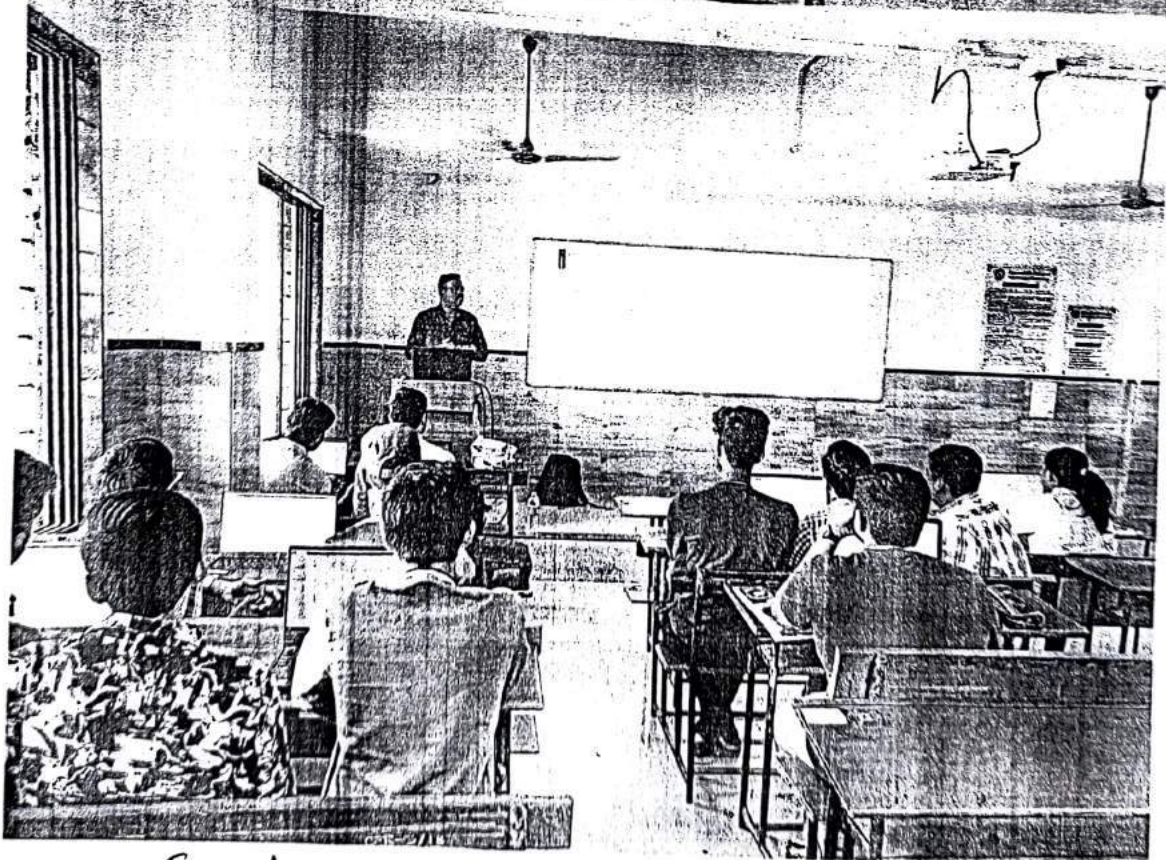
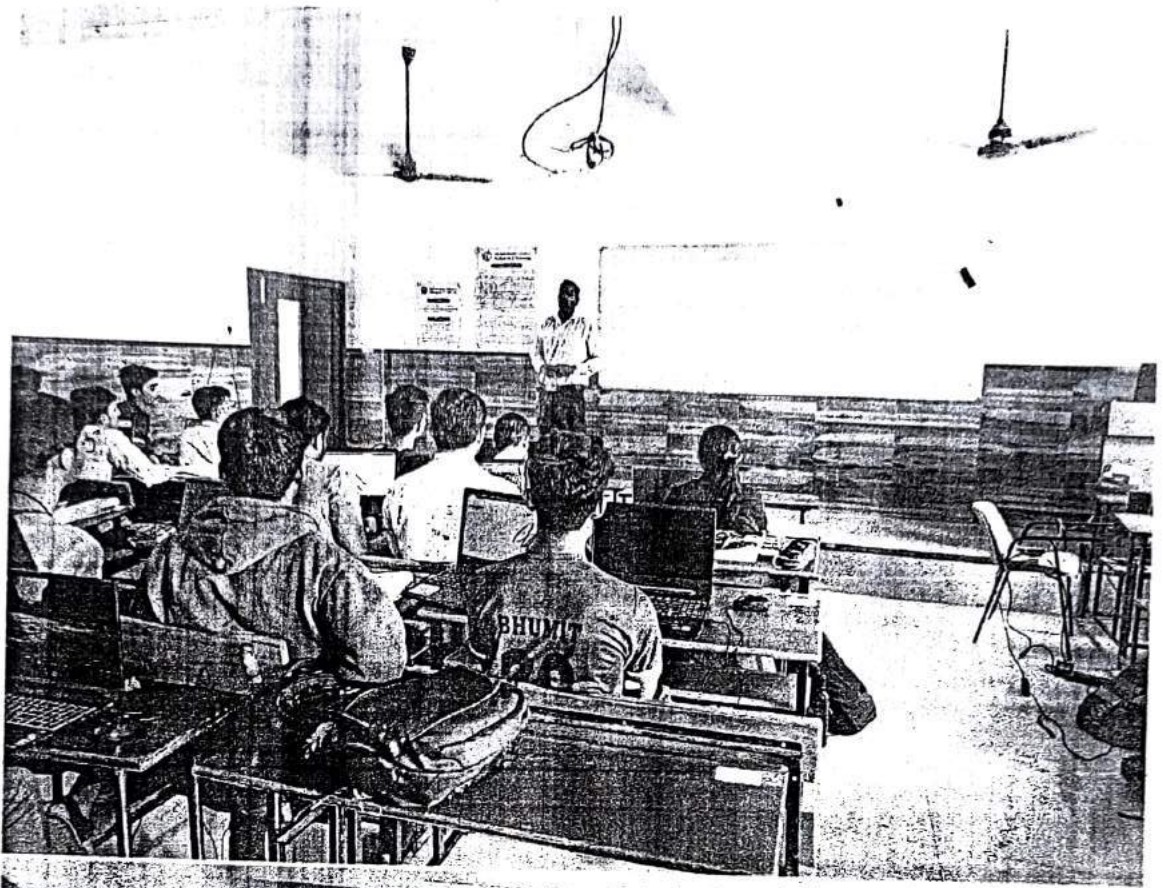
Vidyavardhinis College of Engineering & Technology Vasai

Department of Mechanical Engineering

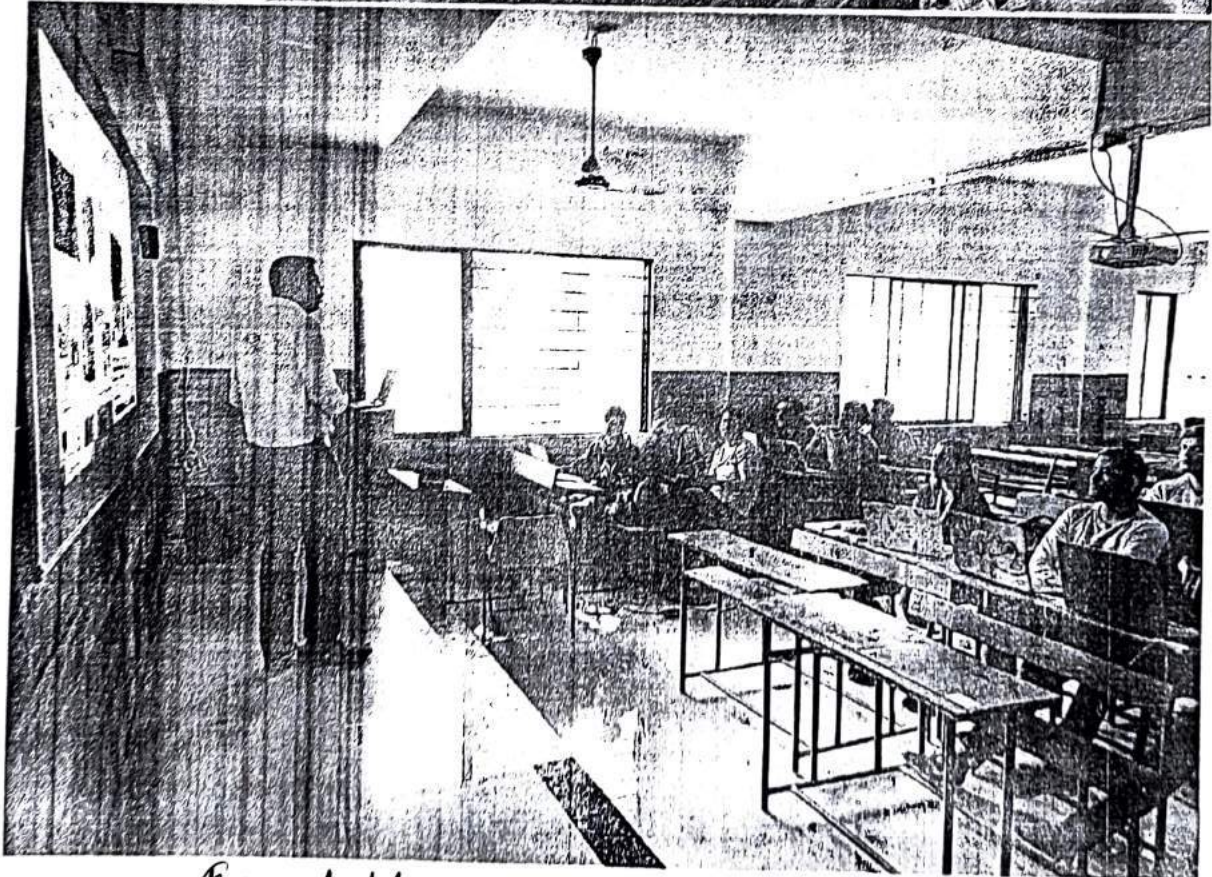
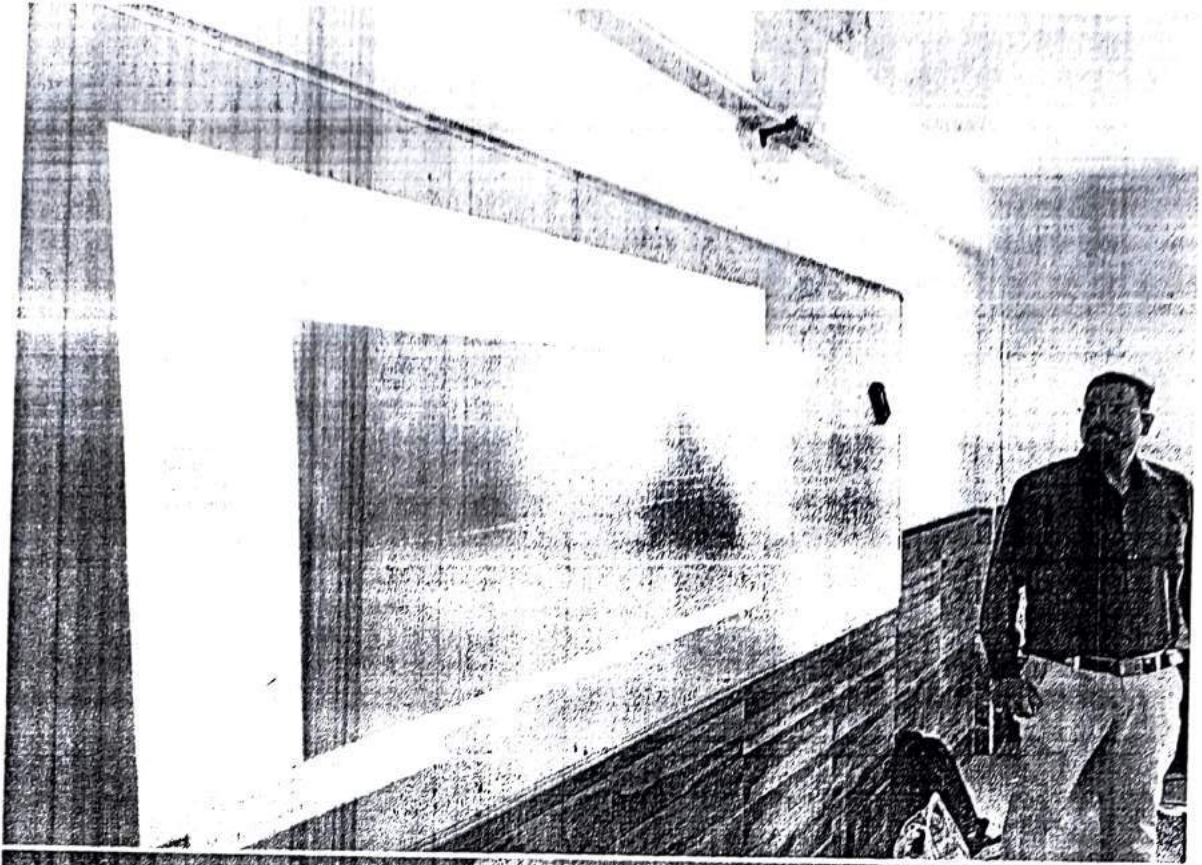
Adjunct Faculty: Mr. Milind Patil (Creo Software Design)

Adjunct Faculty Attendance Record (A.Y: 2022-23)

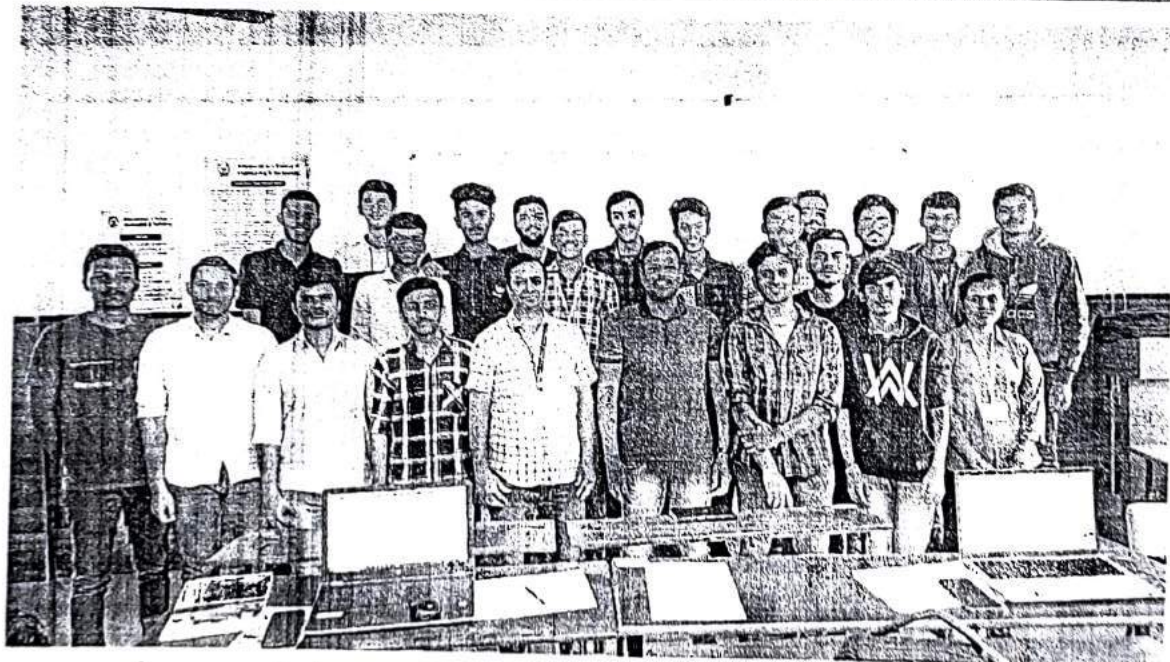
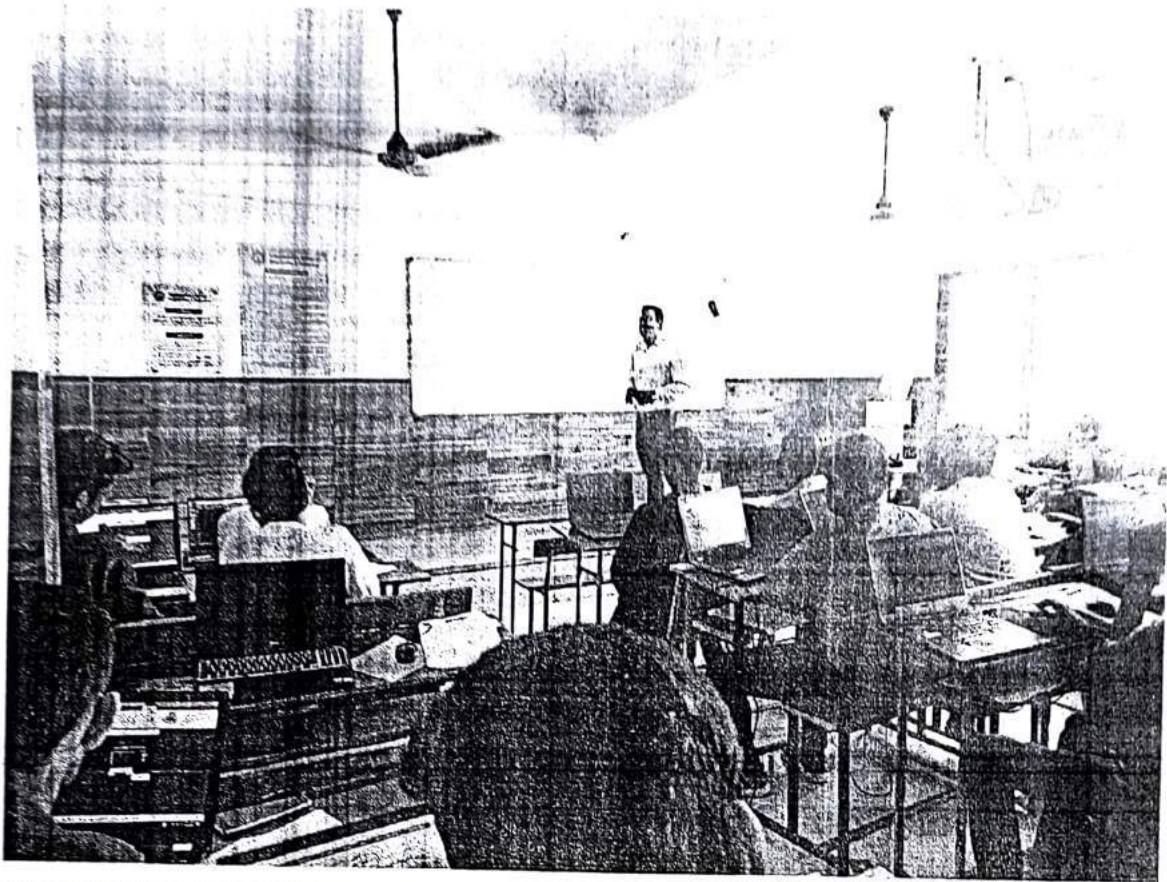
Lec. No	Class	Date	Time	Hrs
1	BE	10-01-2023	09 – 01 pm	04
2	BE	10-01-2023	02 – 04 pm	02
3	BE	11-01-2023	09 – 01 pm	04
4	BE	11-01-2023	02 – 04 pm	02
5	BE	12-01-2023	09 – 01 pm	04
6	BE	12-01-2023	02 – 04 pm	02
7	BE	13-01-2023	09 – 01 pm	04
8	BE	13-01-2023	02 – 04 pm	02
9	BE	14-01-2023	09 – 01 pm	04
10	BE	14-01-2023	02 – 04 pm	02
			Total = 30 Hrs	



Expert delivering session on Creo design Software



Expert delivering session on creo design software



Group photo with Expert faculty, institutional faculty & students.

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

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2_NPTEL-IC
Engines and Gas
Turbines

Courses (<https://swayam.gov.in/explorer>) >

IC Engines and Gas Turbines

By Prof. Pranab K. Mondal, Prof. Vinayak N. Kulkarni | IIT Guwahati

Learners enrolled: 4762

IC Engines and Gas Turbines [Introduction Video]



This course deals with the gas power cycles. One part of the course is on IC engines and it focuses on the thermodynamic cycles for different fuels suitable for automobiles. Other part of the course has emphasis on thermodynamic cycle of aircraft engines and the components of the aircraft engine. Thus this course would provide an understanding on electricity generation or transportation application using gas as working medium.

INTENDED AUDIENCE : Undergraduate students of Mechanical/Chemical/Aerospace engg. (5 th semester onwards) and postgraduate students specializing in the thermo-fluids/ Fluid Mechanics/Aerospace/Automobiles; industry personnel associated with automobile and aerospace engineering; faculty members associated with Mechanical/Chemical/Aero-space engg.

PREREQUISITES : Basic UG-level Fluid Mechanics and Thermodynamics

INDUSTRY SUPPORT : Tata Motors, Ashok Layland, General Electric

Summary



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Course Status :	About Swayam (https://swayam.gov.in/about) All Courses ()
Course Type :	Core
Duration :	12 weeks
Category :	<ul style="list-style-type: none"> ◦ Mechanical Engineering
Credit Points :	3
Level :	Undergraduate/Postgraduate
Start Date :	24 Jan 2022
End Date :	15 Apr 2022
Enrollment Ends :	07 Feb 2022
Exam Date :	24 Apr 2022 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_me65%2Fpreview&title=IC%20Engines%20and%20Gas%20Turbines%20%20Course)

Course layout

Week 1 : Engine

Week 2 : IC engines

Week 3 : Air-standard cycles

Week 4 : Carburation

Week 5 : Fuel injection systems

Week 6 : Combustion in S.I. and C.I. engines

Week 7 : Introduction to Gas Turbines

Week 8 : Performance analysis of Bryton Cycle

Week 9 : Aircraft propulsion

Week 10 : Compressors

Week 11 : Compressors and Turbines

Week 12 : Nozzles and Diffusers

Books and refer



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

- G. F. C. Rogers and Y. R. Mayhew, Engineering Thermodynamics Work and Heat Transfer, 4 th Ed., Pearson, 2001.
- H. I. H Saravanamuttoo, G. F. C. Rogers and H. Cohen, Gas Turbine Theory, 4 th Ed., Pearson, 2003.
- Gill Paul and W Smith, Fundamentals of Internal combustion Engine, Oxford and Ibh Publishing Co.
- V Ganesan, Internal combustion Engine, 4th Edition, McGraw Hill Education.

Instructor bio



Prof. Pranab K. Mondal

IIT Guwahati

Dr. Pranab K. Mondal is an Assistant Professor in the department of Mechanical Engineering at Indian Institute of Technology Guwahati since May 2015. He received his undergraduate and postgraduate degree from Jadavpur University, Kolkata, and completed his Ph.D. from Indian Institute of Technology Kharagpur in 2015. He worked as an Research Associate at IIT Khargpur for nearly one years before joining IIT Guwahati. His principal research interest, encompassing the broad area of Microfluidics, has covered various facets of microscale multiphase transport, electrokinetics microscale transport of heat and experimental microfluidics. He is currently working on stability analysis of flows with free-surfaces, experimental investigations of capillary filling of bio-fluids and droplet dynamics. He has co-authored more than 70 referred journal and conference publications. He is a regular reviewer of many reputed international journals and also associated with several sponsored projects.



Prof. Vinayak N. Kulkarni

Dr. Vinayak N. Kulkarni is an Associate Professor in the Department of Mechanical Engineering of Indian Institute of Technology Guwahati since January 2015. He completed his undergraduate studies in Mechanical Engineering in the Shivaji University, Maharashtra, India. His post graduation and PhD is from Aerospace Engineering Department of Indian Institute of Science Bangalore. His teaching interests are basic and applied thermodynamics, gas dynamics, aircraft propulsion and fluid mechanics. His research interests are experimental and computational compressible flows, IC engines and non-conventional energy.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Annouade when the registration form is open for registrations.

The online registration form will be available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.



(<https://swayam.gov.in/>)



(<https://swayam.gov.in/noc/details/NPTEL>)

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CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Guwahati. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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Initiative by : Ministry of Education (Govt of India)

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3_NPTEL-
Introduction to
Mechanical
Vibration

[Courses \(https://swayam.gov.in/explorer\)](https://swayam.gov.in/explorer) >

Introduction to Mechanical Vibration

By Prof. Anil Kumar | IIT Roorkee

Learners enrolled: 1347

Introduction to Mechanical Vibration



ABOUT THE COURSE:

Vibration is a common phenomenon occurring in a mechanical system. For example, vibration of a rotor due to unbalanced mass, vibration of a vehicle engine at varying speed. The study of a dedicated course is required to understand the fundamental and advance concepts of mechanical vibrations for engineers and designers. This course is of basic level. It introduces fundamentals of vibration, free and forced, undamped and damped vibration, vibration of single Degree of Freedom (DoF) system, 2-DoF and multi-DoF systems, theory of vibration absorbers and vibration instruments.

INTENDED AUDIENCE: It is a Elective Course for UG students of Mechanical, Production, Automobile, Aerospace, Civil Engineering and equivalent.

PREREQUISITES: Completed first year of BE/BTech.

Summary



Course Status :	 Completed (https://swayam.gov.in/)  (https://swayam.gov.in/nc_details/NPTEL)
Course Type :	Elective
Duration :	About Swayam (https://swayam.gov.in/about) All Courses 8 Weeks (0)
Category :	<ul style="list-style-type: none">◦ Mechanical Engineering◦ Advanced Dynamics and Vibration◦ Advanced Mechanics
Credit Points :	2
Level :	Undergraduate
Start Date :	25 Jul 2022
End Date :	16 Sep 2022
Enrollment Ends :	08 Aug 2022
Exam Date :	25 Sep 2022 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_me76%2Fpreview&title=Introduction%20to%20Mechanical%20Vibration%20-%20Course)

Course layout

Week1: Fundamental of Vibrations.

Week2: Free Vibration of Single Degree of Freedom Systems.

Week3: Forced Vibration of Single Degree of Freedom Systems.

Week4: Forced Vibration of Single Degree of Freedom Systems.

Week5: Vibration Measuring Instruments.

Week6: Vibration of Two Degree of Freedom Systems.

Week7: Vibration Absorbers and Critical Speed of Shafts.

Week8: Vibration of Multi Degree of Freedom Systems.



Books and refer



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

1. Grover, G.K., "Mechanical Vibrations", 7th Ed., Nem Chand & Bros.
2. Rao, S.S., "Mechanical Vibrations", 5th Ed., Addison-Wesley Longman, Incorporated.
3. Thomason, W.T., "Theory of Vibrations with Applications", 5th Ed., Prentice-Hall.
4. Timoshenko, S.P., "Vibration Problems in Engineering", 2nd Reprint Ed., Wolfenden Press.
5. Kelly, S.G., "Mechanical Vibrations", Scgaum's Outlines, Mc Graw Hill Education.

About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Instructor bio



Prof. Anil Kumar

IIT Roorkee

Dr Anil Kumar works as an Assistant Professor faculty in the Department of Mechanical and Industrial Engineering at IIT Roorkee for more than four years. He teaches subjects like, Automatic Control, Machine Design, Vibrations and Noise, etc. to UG students. His research area belongs to semi-active rail suspension, modal identification of structures, testing of piping joints, pedestrian-structure interaction modelling.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **25 September 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Roorkee. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.



Once again, thanks for your online courses and certification. Happy learning.



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Initiative by : Ministry of Education (Govt of India)



4_30 Hours
workshop on
STM32



Vidyavardhini's College of Engineering and Technology, Vasai

विद्यावर्धिनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई

Affiliated to the University of Mumbai.

Academic Year 2022/2023

Title of Event: 30 Hours Workshop on STM32

Date: 5th August, 2022

Time: 10:00 am

Venue: Vidyavardhini's College of Engineering and Technology

Students
No. of Staff Present: 68

Faculty Incharge

VCET IETE-SF INCHARGE

HOD, EXTG

HEAD

Dept. of Electronics and
Telecommunication Engg.,
Vidyavardhini's College of
Engineering & Technology
Vasai Road 401 204



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication
Engineering

August 1st, 2022

To,
The Principal,
VCET.

Subject: Permission for organizing a "Workshop on Flash Microcontroller STM32".

Respected Sir,

The Department of Electronics and Telecommunication Engineering in association with IETE VCET-SF is organizing a "30 hours Workshop on Flash Microcontroller STM32" starting from 5th August 2022. This will be a 30 hour program which will help the students to get insights regarding STM32 microcontrollers, its peripherals and its programming. Workshop will be conducted by **Mr. Rajas Patil**, working as Embedded Software Engineer in Faurecia Clarion Electronics, Pune .

Fees for the workshop:

VCET Students: 200/-

Non VCET Students: 500/-

We kindly request you to grant us the permission to organize the event.
*workshop content is attached.

Thanking you,

Yours sincerely,

A Rupere
Dr. Amrita Ruperee,

HOD-EXTC

*Permitted
Asoull
02/08/2022*

[Signature]
Ms. Shaista Khanam

VCET IETE-SF INCHARGE



Vidyavardhini's College of Engineering and Technology, Vasai Road (W)
Department of Electronics and Telecommunication Engineering

August 4th, 2022.

To,
Mr Rajas Patil
Embedded Software Engineer,
Faurecia Clarion Electronics,
Pune.

Subject: Invitation for "30 Hours Workshop on Flash Microcontroller STM32".

Respected Sir,

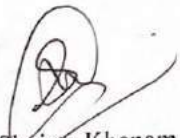
The Department of Electronics And Telecommunication Engineering of Vidyavardhini's College of Engineering and Technology, Vasai Road in association IETE VCET-SF is organising '30 Hours Workshop on Flash Microcontroller STM32' on 5th August, 2022.

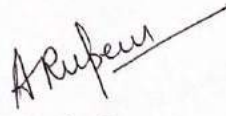
By organizing this workshop with you as our honourable speaker, we aim to provide the students of our institution with insights about the microcontroller STM 32, Understanding the basic pin and time configuration, To perform toggle and write operations, Understanding USART connections and to perform read operations and flash code over microcontroller. We value your time, efforts and support which would make this experience truly special.

We would be thrilled to have you as our guest speaker for this workshop. It would commence at 10:00 am IST on the above mentioned date.

Thanking you,

Yours truly,


Ms. Shajista Khanam,
VCET-IETE-SF INCHARGE.


Dr. Amrita Ruperee,
HOD-EXTC



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

10th October 2022

To,
Mr Rajas Patil
Embedded Software Engineer,
Faurecia Clarion Electronics,
Pune.

Subject: Letter of Appreciation

Respected Sir,

The Department of Electronics And Telecommunication Engineering in association with the VCET IETE-SF has organized a workshop titled "**30 Hours Workshop on Flash Microcontroller STM32**" on 5th August 2022.

The workshop provided participants with an insight into the programming of the STM32 microcontroller. The workshop introduced the participants to the STM family of microcontrollers and how they are used in today's devices and systems. The workshop has opened multi-dimensional doors of opportunity to shape their career. With your guidance, continuous support and encouragement to our students, the event became a grand success. We look forward to similar cooperation and support in future endeavours.

Thanking you

Yours truly,


Ms. Shaista Khanam
VCET IETE-SF INCHARGE.

Dr. Amrita Ruperee
HOD-EXTC



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

Report on FLASH MICROCONTROLLER STM32 WORKSHOP

Event Name	30 Hours Workshop on Flash Microcontroller STM32
Date	05/08/2022
In association with	IETE-SF
Speaker of the Event	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
Description	This event emphasized the importance of embedded systems in industrial as well as individual growth. The students were explained in brief about STM32 microcontroller specifications and its programming. A discussion on the scope of Embedded System technology not only in India but also out of India and sharing of views on how to approach for getting better placements in the field of embedded system took place. Further in the event the learners were explained with the circuitry of the experiment.
Objectives of Event	The objectives of the event are: <ol style="list-style-type: none">1. To understand the basic pin configuration, timer configuration and connectivity (I2C, USARTs, USB) of STM32.2. To understand various USART connections based on timer as well as event functions.
Feedback from participants	<p style="text-align: center;">Students Feedback on Workshop</p> <p style="text-align: center;">How was the technical arrangement for the event?</p> <div style="display: flex; align-items: center; justify-content: center;"><div style="margin-left: 20px;"><ul style="list-style-type: none">● Good● Moderate● Excellent</div></div>






Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

**Report on FLASH MICROCONTROLLER STM32
WORKSHOP**

Event Name	30 Hours Workshop on Flash Microcontroller STM32
Date	05/08/2022
In association with	IETE-SF
Speaker of the Event	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
Description	This event emphasized the importance of embedded systems in industrial as well as individual growth. The students were explained in brief about STM32 microcontroller specifications and its programming. A discussion on the scope of Embedded System technology not only in India but also out of India and sharing of views on how to approach for getting better placements in the field of embedded system took place. Further in the event the learners were explained with the circuitry of the experiment.
Objectives of Event	The objectives of the event are: <ol style="list-style-type: none">1. To understand the basic pin configuration, timer configuration and connectivity (I2C, USARTs, USB) of STM32.2. To understand various USART connections based on timer as well as event functions.
Feedback from participants	<p style="text-align: center;">Students Feedback on Workshop</p> <p style="text-align: center;">How was the technical arrangement for the event?</p> <div style="display: flex; align-items: center; justify-content: center;"><ul style="list-style-type: none">● Good● Moderate● Excellent</div>



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

	<p>How was the overall experience of the event?</p>  <ul style="list-style-type: none">● Good● Moderate● Excellent <p>Would you like to participate in more such events?</p>  <ul style="list-style-type: none">● Yes● No● Maybe <p>Was the time duration of the event sufficient?</p>  <ul style="list-style-type: none">● Yes it was sufficient.● Could have been less.● Could have been more.
Outcomes of Event	<p>On successful completion of event:</p> <ol style="list-style-type: none">1. Participants will be able to identify the basic pin configuration and connectivity of STM32.2. They will be able to demonstrate projects using STM32 and generate constructive feedback from the industry.



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

Photos

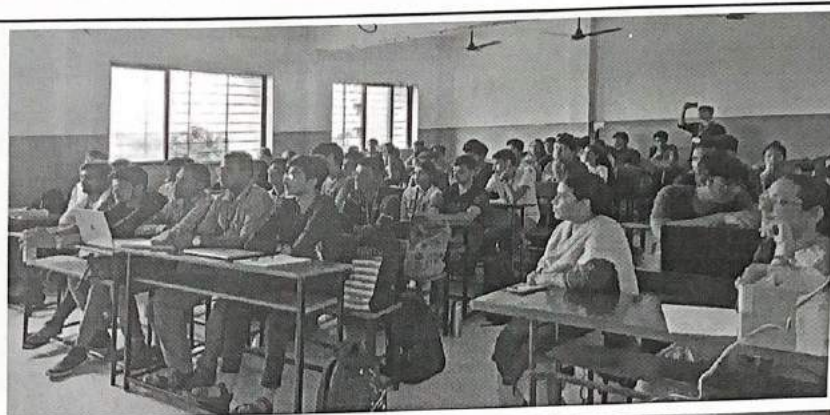


Fig 1. Flash microcontroller STM32 workshop



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

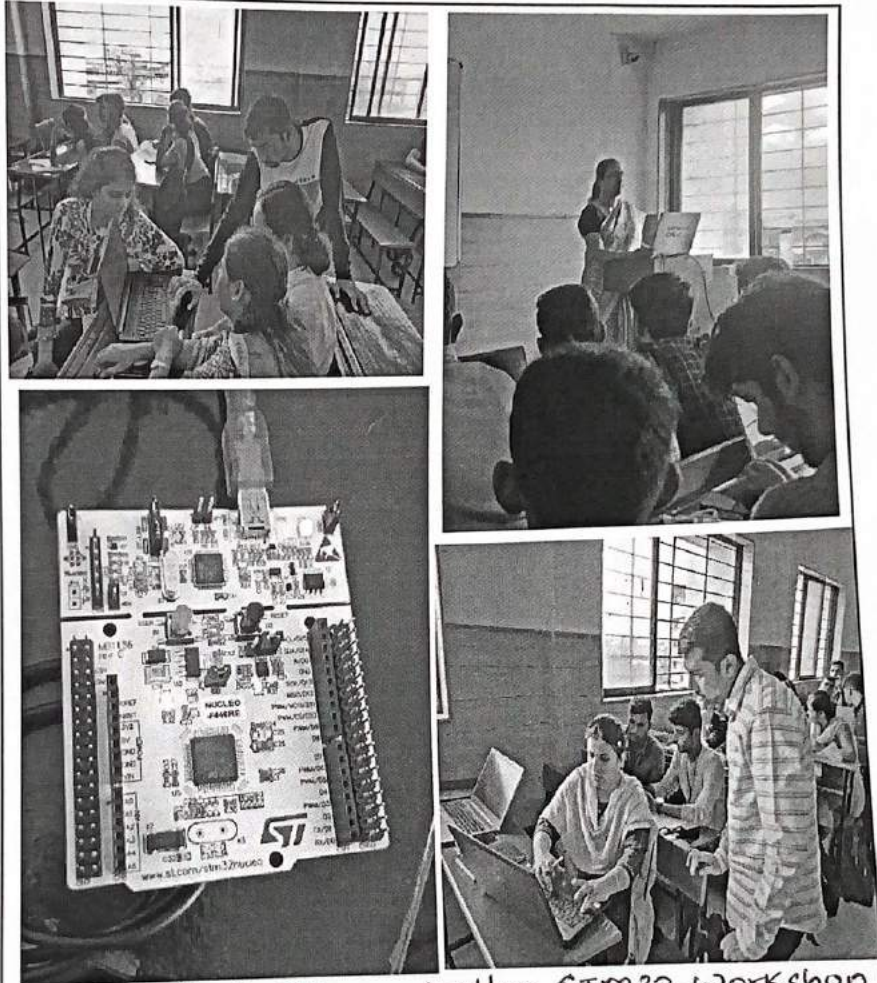


Fig 2. Flash microcontroller STM32 Workshop

Ms. Shaista Khanam
IETE-SF INCHARGE

Dr. Amrita Ruperee
HOD, EXTC



STM 32 WORKSHOP SCHEDULE

5th August - 30th September

Time: 10:00AM to 5:00PM

Date	Topics	Resource Person
DAY 1 05/08/2022 Offline	Embedded Systems Practicals GPIO Switch/Push Button UART communication	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 2 06/08/2022 Offline	ADC Readings I2C Communication Project Comprising all above learnt together	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 3 20/08/2022 Offline	Introduction to Embedded System Acquaintance with MicroController Importance of C Language Fundamentals of Embedded C Data Types Primary User Defined Enum TypeDef Derived Pointer Array Structure Union PreProcessors	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 4 27/08/2022 Offline	Macros Object PreDefined Function Volatile Libraries Compiler	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 5 17/09/2022	Understanding Practical	Mr. Rajas Patil (Embedded Software



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Department of Electronics and Telecommunication Engineering

Online	Reading Datasheet and Reference Manuals (Also in Practicals) BitWise Operations GPIO Communication Protocols UART I2C ADC Using Debugger (Also in Practicals)	Engineer, Faurecia Clarion Electronics.)
DAY 6 30/09/2022 Offline	Operating Systems SPI CAN Introduction to kernel Data Structures Object Oriented Concepts and Programming Interview Preparations	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)

Ms. Shaista Khanam

VCET IETE-SF INCHARGE



Vidyavardhini's College of Engineering and Technology, Vasai

विद्यावर्धिनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई

Affiliated to the University of Mumbai.

5_Student
Development
Program: Hands on
Arduino & MATLAB

Academic Year 2022/2023

Title of Event: SDP: Hands on Arduino & MATLAB

Date: 2nd January, 2023

Time: 9.30am

Venue: Vidyavardhini's College of Engineering and Technology

No. of ^{students} Staff Present: 74

Faculty Incharge

VCET IETE-SF INCHARGE

HOD, EXT

HEAD

Dept of Electronics and
Telecommunication Engg.
Vidyavardhini's College of
Engineering & Technology
Vasai Road 401202.

Vidyavardhini's College of engineering and Tehnology
Department of Electronics and Telecommunication Enginnering

In Asscoation with

IETE SF

Presesnts

Student development Program

On

" Arduino and MATLAB Hands on Training "

SCHEDULE

2nd Jan – 6th Jan 2023

Time: 9:30AM to 1:15 PM

Date	Topics	Resource Person
DAY 1 2/01/2023	<ul style="list-style-type: none">Fundamentals of Embedded system and Arduino <p>Hands on session on:</p> <ul style="list-style-type: none">On board ledExternal ledLed with switchRGB Led with switchTask 1	Ms. Shaista Khanam
DAY 2 3/01/2023	<p>Hands on session on:</p> <ul style="list-style-type: none">Fading LEDInterfacing of 7 segment displayInterfacing of LCDTask 2	Ms. Trupti Shah
DAY 3 4/01/2023	<p>Hands on session on:</p> <ul style="list-style-type: none">Interfacing of LDRInterfacing of Temp sensorInterfacing of ultrasonic sensorInterfacing of BluetoothTask 3	Ms. Ekta Naik
DAY 4 5/01/2023	<ul style="list-style-type: none">Introduction to MATLABVariable, array, matrix indexingOperators (Arithmetic, logical and relational)	Ms. Trupti Shah



ARubens

	<ul style="list-style-type: none">• Task 4	
DAY 5 6/1/2023	<ul style="list-style-type: none">• Display Facilities• Flow control• Writing user defined function• Task 5:	Ms. Ashwini Katkar



A. Katkar



VCET IETE STUDENTS FORUM

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Website : www.vcet.edu.in

January 2nd, 2023

To,
The Principal,
VCET

Subject: Permission for organising Student Development Program on "Arduino and MATLAB Training"


Respected Sir,


The Department of Electronics and Telecommunication Engineering in association with the VCET IETE-SF is organising a **Student development program from Monday 2nd January to 6th January 2023 on "Arduino and MATLAB Hands on Training"** on Monday 2nd January, 2023 from 9:30 onwards. The Student development program aims to provide students with hands on training on Arduino and MATLAB. The program will be conducted by the following staff members


1. Ms. Shaista Khanam
2. Ms. Trupti Shah
3. Ms. Ekta Naik
4. Ms. Ashwini Katkar

We kindly request you to grant us the permission to organize the event.

Thanking you,
Yours sincerely


Ms. Shaista Khanam,
VCET IETE-SF INCHARGE

Permitted

2/1/2023


Dr. Amrita Ruperee
HOD-EXTC

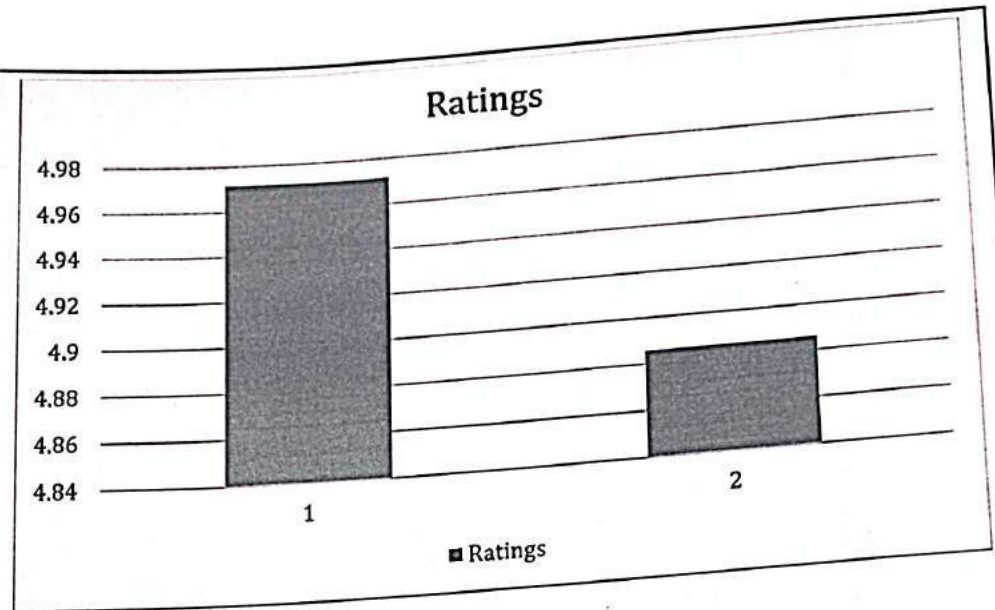


Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering

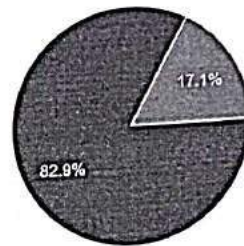
Academic Year 2022-2023

Report on SDP on Arduino and MATLAB Hands on Training

Event Name	SDP on Arduino and MATLAB Hands on Training	
Date	02/01/2023-06/01/2023	
In association with	IETE-SF	
Trainers	Ms. Shaista Khanam, Ms. Trupti Shah, Ms. Ekta Naik	
Description	The Summer Development Program (SDP) on Arduino and MATLAB Hands-on Training was a comprehensive workshop aimed at providing participants with fundamental knowledge and practical skills in the field of embedded systems, Arduino programming, and MATLAB usage. The program was conducted over the course of five days, with each day focusing on specific topics and hands-on sessions. The training was organized by faculty members Ms. Shaista Khanam, Ms. Trupti Shah, and Ms. Ekta Naik.	
Objectives of Event	The objectives of the training are : <ol style="list-style-type: none">1. To understand the fundamental concepts of microcontrollers, input/output devices, and data manipulation.2. To develop proficiency in MATLAB for data analysis, manipulation, and code optimization.3. To acquire practical skills in embedded systems, Arduino programming, sensor interfacing, and MATLAB data analysis.	
Feedback from participants	Attributes	Average Score of marking given by participants (out of 5)
	1. How good was the technical arrangement for the program?	4.97142
	2. How was your experience?	4.88571
	3. Would you like to participate in more such Student Development Programs?	-
Students Feedback on SDP		



Would you like to participate in more such Student Development Programs ?



- Yes
- No
- Maybe

Outcomes of Event

On successful completion of event,

1. Participants will be empowered to create fading LED effects, interface with displays, and utilize MATLAB for data analysis and programming.
2. They will be able to apply knowledge in Arduino and MATLAB projects.
3. They will gain practical experience in controlling LEDs, working with sensors, displays, and wireless communication using Bluetooth.



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

Photos

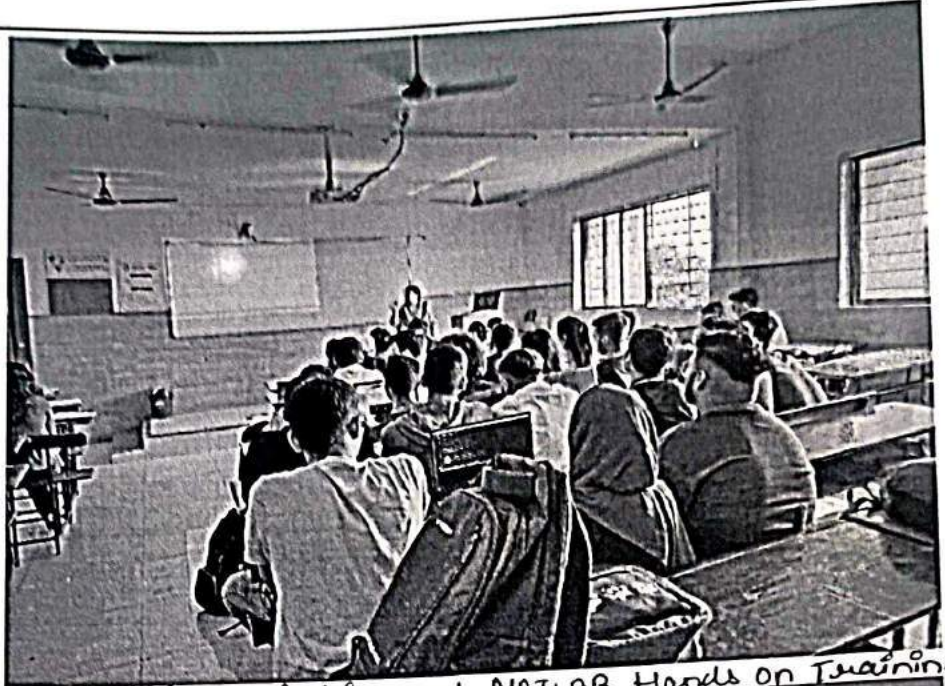


FIG 1: SDP on Arduino and MATLAB Hands on Training

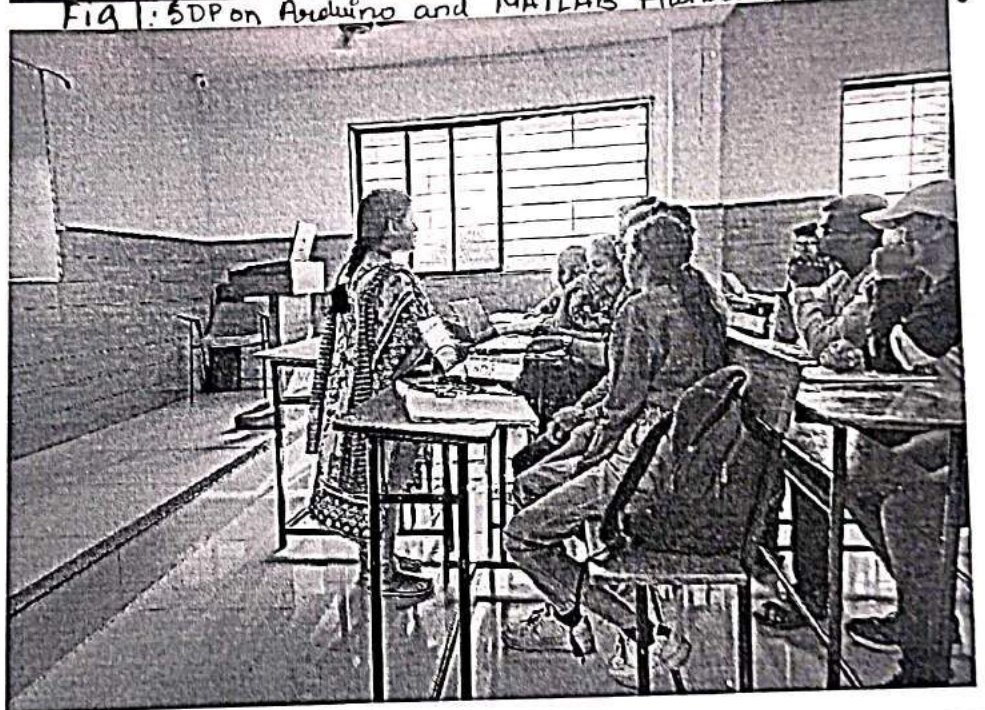


Fig 2: SDP on Arduino and MATLAB Hands on Training



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

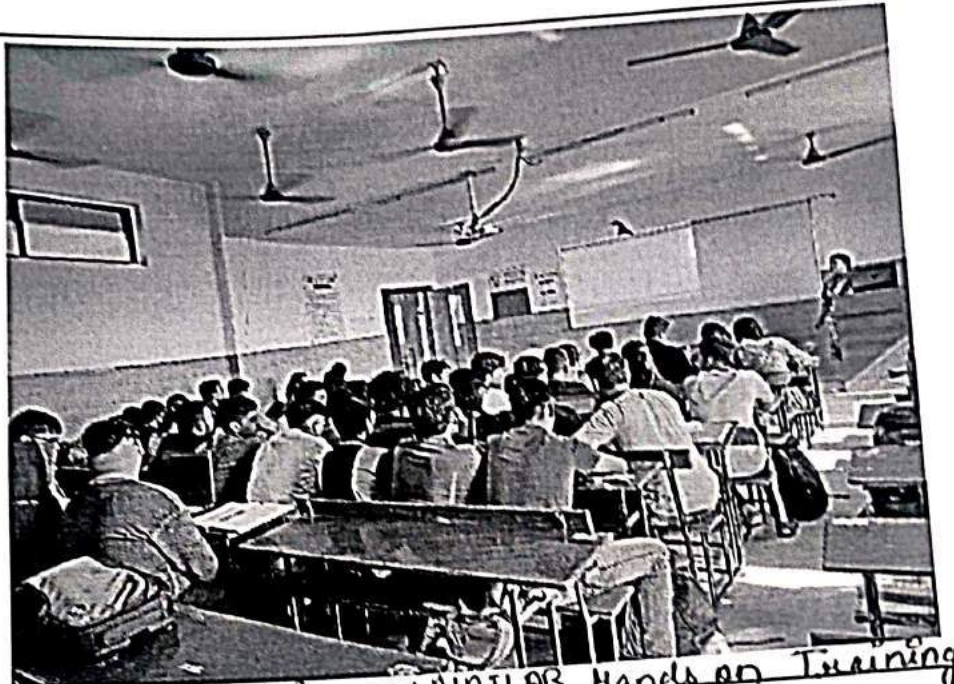


Fig 3: SDP on Arduino and MATLAB Hands on Training

Ms. Shaista Khanam
IETE-SF INCHARGE

Dr. Amrita Ruperee
HOD, EXTC



Vidyavardhini's College of Engineering and Technology, Vasai Road (West)

INTERNSHIP SCHEDULE

2nd Jan-6th Jan 2023

Time: 10:00AM to 1:00PM

Date	Topics	Resource Person
DAY 1 02/01/2023	Arduino Hands on session on: On board led External led Led with switch RGB Led with switch Fading LED	Ms. Shaista Khanam
DAY 2 03/01/2023	Hands on session on: Interfacing of 7 segment display Interfacing of LCD	Ms. Trupti Shah
DAY 3 04/01/2023	Interfacing of LDR Interfacing of Temp sensor Interfacing of ultrasonic sensor Interfacing of Bluetooth	Ms. Ekta Naik
DAY 4 05/01/2023	MATLAB Overview of MATLAB programming Executing various commands Demonstration with various programs Detailed explanation of Control elements Algorithm development	Ms. Trupti Shah
DAY 5 06/01/2023	Detailed explanation of Math and Computation Data analysis and visualization Executing various commands Demonstration with various programs	Ms. Trupti Shah



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Affiliated to the University of Mumbai

Academic Year 2022/2023

6_Workshop on
Raspberry Pi

Title of Event: Workshop on RPI

Date: 9th March, 2023

Time: 10.00 am

Venue: Vidyavardhini's College of Engineering and Technology

No. of ^{students} Staff Present: 50

Faculty Incharge

VCET IETE-SF INCHARGE

HOD, EXT

HEAD

Dept. of Electronics and
Telecommunication Engg.,
Vidyavardhini's College of
Engineering & Technology
Vasai Road 401202.



VCET IETE STUDENTS FORUM

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Website : www.vcet.edu.in

28th February, 2023

To,
The Principal,
VCET

Subject: Permission for conducting Workshop on "Raspberry pi".

Respected Sir,

The Department of Electronics and Telecommunication Engineering in association with the IETE-SF VCET is conducting a **Workshop on "Raspberry Pi"** on Thursday 9th, March and Saturday 11th, March 2023 and it will be conducted by **Mr. Manoj S. Kavedia, Professor at Thadomal Shahani Engineering College, Mumbai, Maharashtra**. The objective of this workshop is to give hands on training to the students and get acquainted with the fundamentals of Raspberry Pi.

The registration fee for the workshop is Rs. 100/- per student and remuneration for the speaker for the two days of workshop is Rs. 12000/-.

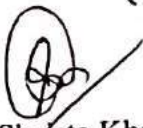
Approximate Registration amount = $65 \times \text{Rs. } 100/- = \text{Rs. } 6500/-$.

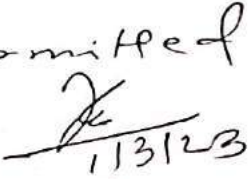
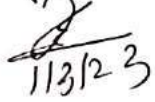
Remuneration for Speaker (2 days) = Rs. 12000/-.

The remaining amount will be deducted from department's student activity budget.

We kindly request you to grant us the permission to organize the event in the internet centre (223).

Thanking you,
Yours sincerely


Ms. Shaista Khanam,
VCET IETE-SF INCHARGE

Permitted

11/3/23
To Registrar Account
Approved.
Expense from Dept. Activity Budget

11/3/23
Dr. Amrita Ruperee,
HOD-EXTC



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Website : www.vcet.edu.in

9th March, 2023

To,
Mr. Manoj S. Kavedia
Assistant Professor,
Thadomal Shahani College,
Bandra. .

Subject: Letter of Appreciation

Respected Sir,

The Department of Electronics And Telecommunication Engineering in association with the VCET IETE-SF has organized a workshop on "Raspberry Pi" on 09th & 11th March, 2023.

The workshop provided participants with insight into the technology, utilization and applications of Raspberry pi . The workshop has opened multi-dimensional doors of opportunity to shape their careers. With your guidance, continuous support and encouragement to our students, the event became a grand success. We look forward to similar cooperation and support in future endeavors.

Thanking you

Yours truly,

Ms. Shaista Khanam
VCET IETE-SF INCHARGE

Dr. Amrita Ruperee
HOD-EXTC



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Website : www.vcet.edu.in

8th March, 2023

To,
Mr. Manoj S. Kavedia
Assistant Professor,
Thadomal Shahani College,
Bandra.

Subject: Invitation for workshop on "Raspberry Pi".

Respected Sir,

The Department of Electronics And Telecommunication Engineering in association with VCET IETE-SF is organizing a workshop on "Raspberry Pi" on 9th & 11th of March, 2023..

By organizing this workshop with you as our honourable speaker, we aim to provide the students of our institution with insights about the technology and utilization of Raspberry pi boards.

We would be thrilled to have you as our guest speaker for this workshop. It would commence at 09:30 am IST on the above mentioned date.

Thanking you,

Yours truly,


Ms. Shaista Khanam,
VCET IETE-SF INCHARGE


Dr. Amrita Ruperee
HOD-EXTC



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

Report on RASPBERRY PI WORKSHOP

Event Name	Workshop on Raspberry Pi									
Date	09/03/2023 & 11/03/2023									
In association with	IETE-SF									
Speaker of the Event	Mr. Manoj S. Kavedia (Professor at Thadomal Shahani Engineering College, Mumbai, Maharashtra)									
Description	Vidyavardhini's College of Engineering and Technology, in partnership with IETE-SF, hosted a comprehensive "Raspberry Pi Workshop." The event spanned offline and online sessions. It featured introductions, discussions on embedded systems, and practical Raspberry Pi basics. Later on, the workshop was held with hands-on instruction, with students learning Write Pin, Read Pin, and code verification.									
Objectives of Event	The objectives of the event are : <ol style="list-style-type: none">1. To understand the basic pin configuration, timer configuration and connectivity of Raspberry Pi.2. To understand various USART connections and software installation.									
Feedback from participants	<table border="1"><thead><tr><th>Attributes</th><th>Average Score of marking given by participants (out of 5)</th></tr></thead><tbody><tr><td>1. How good was the technical arrangement for the program?</td><td>4.05555</td></tr><tr><td>2. How was your experience?</td><td>4.12962</td></tr><tr><td>3. Would you like to participate in more such workshops?</td><td>-</td></tr></tbody></table>	Attributes	Average Score of marking given by participants (out of 5)	1. How good was the technical arrangement for the program?	4.05555	2. How was your experience?	4.12962	3. Would you like to participate in more such workshops?	-	
Attributes	Average Score of marking given by participants (out of 5)									
1. How good was the technical arrangement for the program?	4.05555									
2. How was your experience?	4.12962									
3. Would you like to participate in more such workshops?	-									
Students Feedback on Workshop										



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering

Academic Year 2022-2023

	<p style="text-align: center;">Ratings</p> <table border="1"><caption>Ratings Data</caption><thead><tr><th>Category</th><th>Rating</th></tr></thead><tbody><tr><td>1</td><td>4.05</td></tr><tr><td>2</td><td>4.13</td></tr></tbody></table> <p>Would you like to participate in more such workshops ? 54 responses</p> <table border="1"><caption>Workshop Participation Responses</caption><thead><tr><th>Response</th><th>Percentage</th></tr></thead><tbody><tr><td>Yes</td><td>99.3%</td></tr><tr><td>No</td><td>7.4%</td></tr><tr><td>Maybe</td><td>0.7%</td></tr></tbody></table>	Category	Rating	1	4.05	2	4.13	Response	Percentage	Yes	99.3%	No	7.4%	Maybe	0.7%
Category	Rating														
1	4.05														
2	4.13														
Response	Percentage														
Yes	99.3%														
No	7.4%														
Maybe	0.7%														
<p>Outcomes of Event</p>	<p>On successful completion of event:</p> <ol style="list-style-type: none">1. Students will be able to explore RPi technology concepts and its applications in Industry2. They will be able to learn new methods to implement projects and innovation using RPi as per the industry norms.														



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

Photos

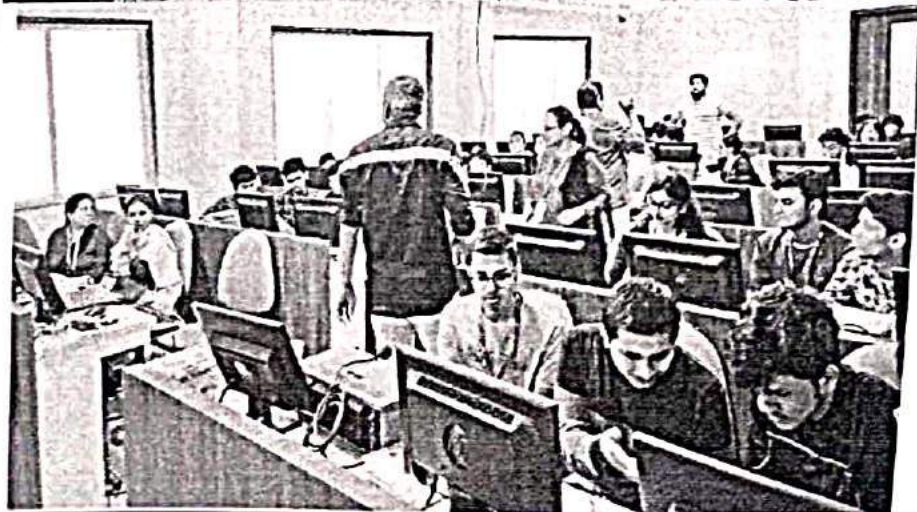
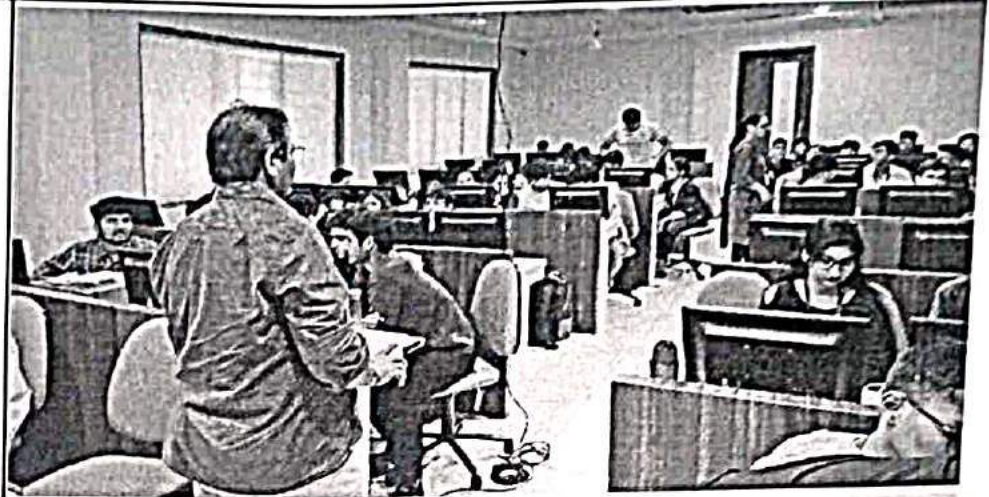


Fig1: Workshop on Raspberry Pi



Vidyavardhini's College of Engineering and Technology
Department Of Electronics and Telecommunication Engineering
Academic Year 2022-2023

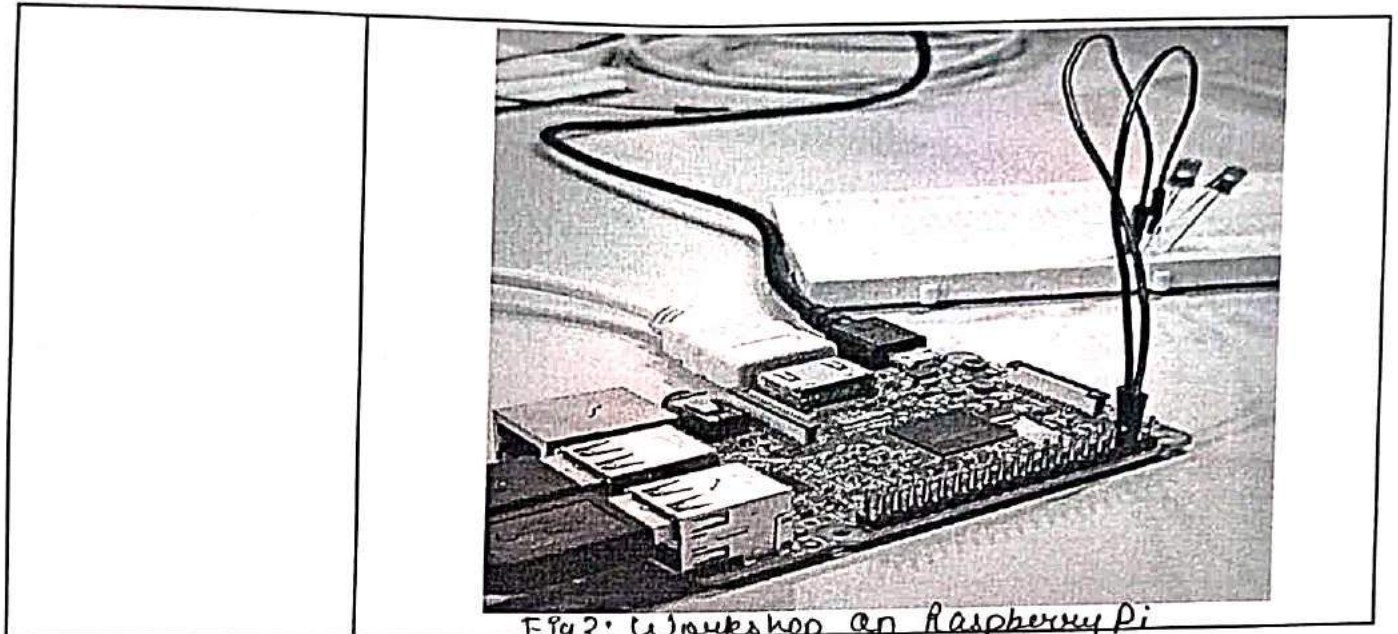


Fig 2: Workshop on Raspberry Pi

Ms. Shaiста Khanam
IETE-SF INCHARGE

Dr. Amrita Ruperee
HOD, EXTC



Vidyavardhini's College of Engineering and Technology, Vasai

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Affiliated to the University of Mumbai.

7_Complex
Programmable
Logic Device
Training Program

Academic Year 2022/2023

Title of Event: Two Week Training Program on Krypton CPLD board

Date: 13th to 23th December 2022

Time:

Venue: Vidyavardhini's College of Engineering and Technology

No. of ^{students} Staff Present: 15

SP

Faculty Incharge

A. R. Ramesh
HOD, ETC

HEAD

Dept of Electronics and
Telecommunication Engg.,
Vidyavardhini's College of
Engineering & Technology
Vasai Road 401 202,

2 u
Prog



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Founder President Late Padmashri H. G. Vartak

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K. T. Marg, Vasai Road (W), Dist. Palghar - 401202, Maharashtra.

Department of Electronics and Telecommunication Engineering

Date:09/12/2022

To,

The Principal,

VCET, Vasai.

Subject: Permission to conduct a Two week Training/Internship program.

Respected Sir,

Department of Electronics & Telecommunication Engineering in association with IIT Bombay is organizing a two week training program on "Digital Circuit and Systems" for students using Krypton CPLD board from 13th December to 24th December 2022.

Student scoring more than 60% marks in this Training/ Internship program will receive a certificate from IIT Bombay.

Course Coordinators:

- 1) Dr. Sunayana Jadhav
- 2) Ms.Sandhya Supalkar

Kindly grant us permission for conducting Training/Internship program.

A Ruperee

Dr. Amrita Ruperee

HoD (EXTC)

Permitted.

[Signature]
9/12/22.



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Department of Electronics and Telecommunication Engineering

09/12/2022

NOTICE

Department of Electronics & Telecommunication Engineering in association with IIT Bombay is organizing a two week training program on "Digital Circuit and Systems" for students using Krypton CPLD board from 13th December to 24th December 2022.

Following students are identified as Advanced Learners from Third Year Engg. (2022-23)

1. Mr. Patil Vijay R.
2. Mr. Kargatia Nikhil P.
3. Mr. Sant Sarvesh A.
4. Mr. Mhapadi Sahil S.
5. Ms. Parmar Hetsi
6. Ms. Tandel Dhanashree A.
7. Ms. Thakur Preet N.
8. Ms. Shejwalkar Kimaya A.
9. Ms. Shuhangi Survase
10. Mr. Pethe Prathamesh S.
11. Mr. Patil Mayank V.
12. Mr. Mishra Shashank V.
13. Mr. Chavan Saurabh R.
14. Ms. Gohil Vaidehi A.
15. Mr. Rane Smith S.

They all have to compulsorily attend training program on "Digital Circuit and Systems" from 13th to 24th December 2022.

Student scoring more than 60% marks in this Training/ Internship program will receive a certificate from IIT Bombay.

Course Coordinators:

- 1) Dr. Sunayana Jadhav
- 2) Ms. Sandhya Supalkar

Jadhav
Supalkar

ARupere
Dr. Amrita Ruperee
HoD(EXTC)



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

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Department of Electronics and Telecommunication Engineering

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2. Mr. Kargatia Nikhil P.
3. Mr. Sant Sarvesh A.
4. Mr. Mhapadi Sahil S.
5. Ms. Parmar Hetsi
6. Ms. Tandel Dhanashree A.
7. Mr. Thakur Preet N.
8. Ms. Shejwalkar Kimaya A.
9. Ms. Shuhangi Survase
10. Ms. Riddhi Garudkar.
11. Ms. Shraddha Kobnak
12. Mr. Mishra Shashank V.
13. Mr. Chavan Saurabh R.
14. Ms. Gohil Vaidehi A.
15. Mr. Rane Smit S.

They all have to compulsorily attend training program on "Digital Circuit and Systems" from 13th to 24th December 2022.

Student scoring more than 60% marks in this Training/ Internship program will receive a certificate from IIT Bombay.

Course Coordinators:

- 1) Dr. Sunayana Jadhav
- 2) Ms. Sandhya Supalkar

Supalkar
Supalkar

ARupere
Dr. Amrita Ruperee
HoD(EXTC)



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Founder President Late Padmashri H. G. Vartak

(Approved by AICTE and Affiliated to the University of Mumbai)

Four Branches Permanently Affiliated by University of Mumbai

K. T. Marg, Vasai Road (W), Dist. Palghar - 401202, Maharashtra.
Tel.: 0250 - 2338234 (6 Lines) • Fax : 0250 - 2339486 • Email : vcet_inbox@vcet.edu.in • Website : www.vcet.edu.in

Department of Electronics and Telecommunication Engineering

To,

21/12/2022

Prof. Siddharth Tallur,

Incharge WEL, EE,

IIT Bombay.

Subject: Feedback on Teachers Training Program on "Digital Circuits & Systems".

Respected Sir,

We the undersigned Faculty members from Vidyavardhini's College of Engineering & Technology, Vasai Rd. are very much thankful to you for organizing a teacher's training program.

The program on "Digital Circuits & Systems" was very well organized with adequate resources made available to us. Course contents began with implementation of basic circuit design and gradually progressed towards complex circuit design. Further, course manual had in detailed step wise explanation of installation of software. Also, use of Krypton board and its interfacing with software were easy to understand for design implementation.

The training program will help us in guiding our students for their mini and major project development. We are very much thankful to Research Assistant Ritu Sharma for guiding and teaching us throughout the program. Also, we are grateful towards Mr. Mahesh Bhaganagre for overall organization and support for the training program.

We would like to extend our gratitude towards IIT Bombay for providing us Five Krypton CPLD boards that will help us in conduction of experiments and projects as well.

We are happy to have been associated with WEL, EE, IITB and look forward for such association in future.

Thanking You

Dr. Sunayana Jadhav

Mrs. Sandhya Supalkar

Dr. Amrita Ruperec

HoD EXTC
HEAD

Dept. of Electronics and
Telecommunication Engg.,
Vidyavardhini's College of
Engineering & Technology
Vasai Road 401202



Report on CPLD TRAINING

Event Name	Two-Week Training Program on Krypton CPLD board
Centre (name)	IEEE-SB
Venue (College/Institute)	Vidyavardhini's College of Engineering and Technology
Date & Time	13 th December 2022 – 23 rd December 2022 (10:00 am)
Speaker of the Event	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
Topic of Event	Digital Circuits and System
Important dignitaries attended	Dr. Amrita Ruperee, HOD EXTC, IEEE-SB Incharge Dr. Sunayana Jadhav, and Assistant Professor Ms. Sandhya Supalkar.
Objective of the event	1. To understand the working of the Quartus software. 2. To understand multiplexers and various types of adders. 3. To understand combinational circuits and BCD addition.
Brief Report including above information	<p>13/12/2022 Resource Person: Dr. Sunayana Jadhav Ms. Sandhya Supalkar</p> <p>Topics Covered:</p> <ul style="list-style-type: none">• Introduction to Quartus Software• Design of Full Adder using Half Adder• Design of XOR using NAND Gates <p>Students were introduced to Quartus Software, which is a software program used for engineering and design. They started by designing a Full adder using a half adder, then designed an XOR gate using NAND gates.</p> <p>14/12/2022 Resource Person: Dr. Sunayana Jadhav Ms. Sandhya Supalkar</p> <p>Topics Covered:</p> <ul style="list-style-type: none">• Full Adder using NAND Gates• 4-Bit Adder-Subtractor• <p>Based on the understanding of Full Adder students successfully designed Full Adder using NAND Gates and performed RTL Simulation and Gate Level Simulation.</p>

SP



15/12/2022

Resource Person: Dr. Sunayana Jadhav
Ms. Sandhya Supalkar

Topics Covered:

- Multiplexers
- Design verification on Krypton Board

Faculty described the concept of Multiplexers using a circuit diagram and students with the help of basic gates implemented 2:1, 4:1 and 16:1 Multiplexers. Students were given Krypton Board and downloaded drivers and UrTag Software.

16/12/2022

Resource Person: Dr. Sunayana Jadhav
Ms. Sandhya Supalkar

Topics Covered:

- Combinational Circuits
- BCD Number Addition

Faculty provided the students with a circuit and the students successfully implemented the circuit on Quartus Software and performed RTL Simulation and Gate Level Simulation. The BCD Number Addition circuit was explained to the students and they successfully implemented it.

19/12/2022

Resource Person: Dr. Sunayana Jadhav
Ms. Sandhya Supalkar

Topics Covered:

- Design Verification using Scan Chain

Students performed the Scanchain Based Testing by following the steps mentioned in the manual which was to create svf file, and further burn on to the Krypton Board. To test the results of the Scanchain a task was given to the students.

20/12/2022

Resource Person: Dr. Sunayana Jadhav
Ms. Sandhya Supalkar

Topics Covered:

- Multiplier
- ALU

SP



The students successfully implemented the circuit on Quartus Software and performed RTL Simulation and Gate Level Simulation. Then using Scanchain implemented the circuit on the Krypton board. Based on the knowledge gained by the students about Multiplier and ALU, they implemented and burned the program on the CPLD Board.

21/12/2021

Resource Person: Dr. Sunayana Jadhav
Ms. Sandhya Supalkar

Topics Covered:

- String Detector
- Sequence Generator

Concept of String Detector and Sequence Generator was taught and the behavioural code was explained to the students. Thus, they successfully implemented the String Detector and Sequence Generator.

22/12/2021

Resource Person: Dr. Sunayana Jadhav
Ms. Sandhya Supalkar

Topics Covered:

Students practised previously performed experiments and asked doubts regarding the experiments. The resource persons cleared the doubts: Dr. Sunayana Jadhav and Ms. Sandhya Supalkar.

23/12/2021


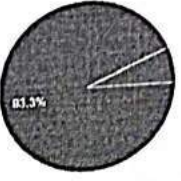
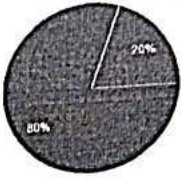
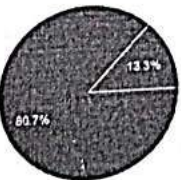
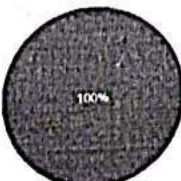
Resource Person: Dr. Sunayana Jadhav
Ms. Sandhya Supalkar

Topics Covered:

Based on the knowledge of the students an online exam was conducted by IIT Bombay. Where the students were given a problem statement and they had to write a code for it in one hour. After that, a viva was taken by the examiners where the students had to explain how they approached the solution to the given problem.

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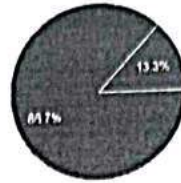


Outcome of the event	<p>On successful completion of event students/learners will be able to:</p> <ol style="list-style-type: none">1. Understand the working of the Quartus software.2. Understand multiplexers and various types of adders.3. Understand combinational circuits and BCD addition
Feedback from Participants	<p>Whether the course material was provided with appropriate resources? 15 responses</p>  <ul style="list-style-type: none">● Yes● No <p>How was the technical arrangement for the training? 15 responses</p>  <ul style="list-style-type: none">● Very Good● Good● Moderate <p>How was the technical assistance for resolving the queries? 15 responses</p>  <ul style="list-style-type: none">● Very Good● Good● Moderate● Average <p>Rate the overall teaching support provided. 15 responses</p>  <ul style="list-style-type: none">● Very Good● Good● Moderate● Average <p>Did you find the CPLD board useful and interesting? 15 responses</p>  <ul style="list-style-type: none">● Yes● No

SP

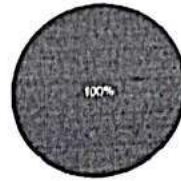


Rate the structural complexity of the assignments given.
15 responses



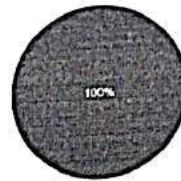
- Very Good
- Good
- Moderate
- Average

Have you completed your experiments in the given time schedule?
15 responses



- Yes
- No

Do you want such training programs in future?
15 responses



- Yes
- No

Photographs

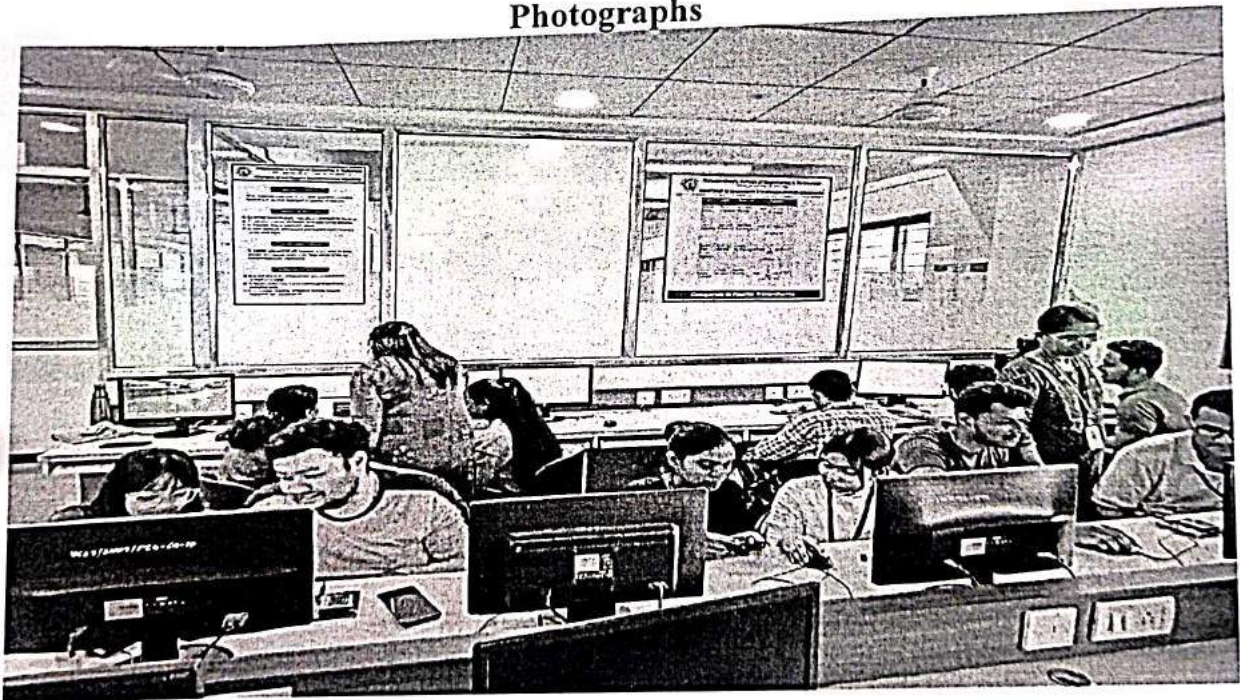


Figure 1 CPLD Training

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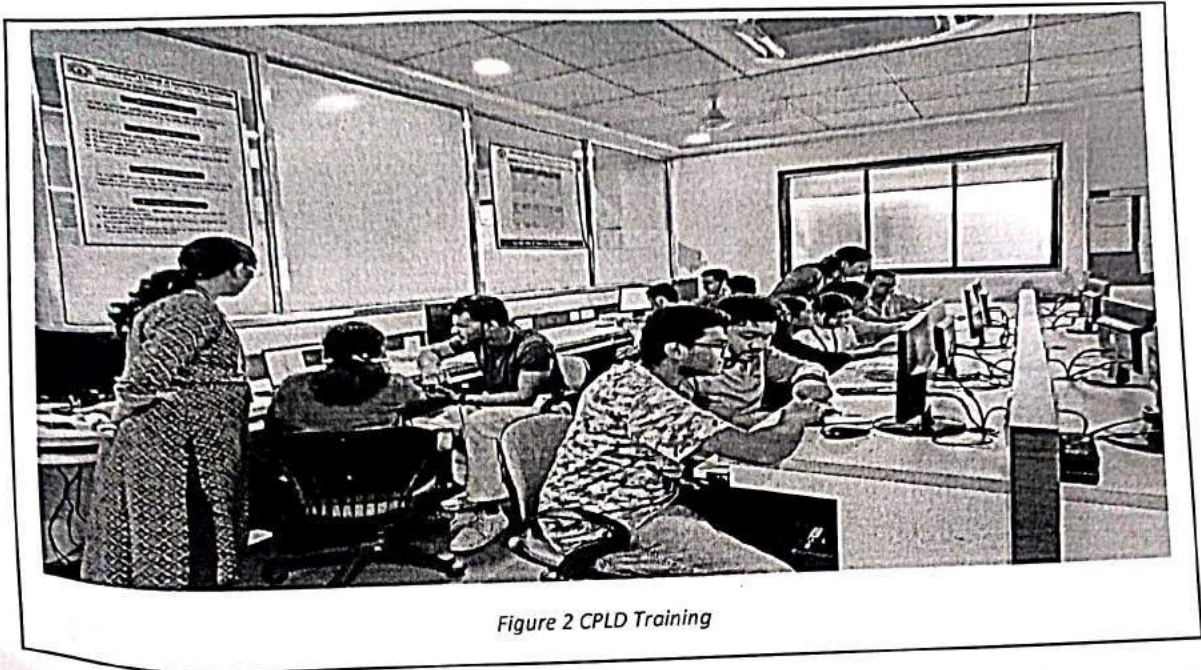


Figure 2 CPLD Training

SP

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Vidyavardhini's College of Engineering and Technology, Vasai Road (W)
Department of Electronics and Telecommunication Engineering

INTERNSHIP SCHEDULE WORKSHOP ON CPLD

13th Dec-23rd Dec 2022

Time: 10:00AM to 4:00PM

Date	Topics	Resource Person
DAY 1 13/12/2022	Introduction to Quartus Software Design of Full Adder using Half Adder Design of XOR using NAND Gates	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 2 14/12/2022	Full Adder using NAND Gates 4-Bit Adder-Subtractor	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 3 15/12/2022	Multiplexers Design verification on Krypton Board	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 4 16/12/2022	Combinational Circuits BCD Number Addition	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 5 19/12/2022	Design Verification using Scan Chain	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 6 20/12/2022	Multiplier ALU	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 7 21/12/2022	String Detector Sequence Generator	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 8 22/12/2022	Doubt Solving Session	Dr. Sunayana Jadhav Ms. Sandhya Supalkar
DAY 9 23/12/2022	Online Examination conducted by IIT Bombay	Dr. Sunayana Jadhav Ms. Sandhya Supalkar

About VCET

"Vidyavardhini" is a body committed to enhancement of knowledge. Vidyavardhini was established as a registered society in the year 1970 by late Padmashri H.G. alias Bhausaheb Vartak for the noble cause of the education in rural areas. Vidyavardhini's College of Engineering and Technology, Vasai is located on the sprawling campus of Vidyavardhini, spread over an area of 12.27 acres. VCET is approved by AICTE and affiliated to the University of Mumbai for the Bachelor's Degree in seven Programs Mechanical, Electronics and Telecommunication, Computer Engineering, Information Technology, Civil Engineering, Computer Science & Engineering (Data Science), Artificial Intelligence & Data Science Engineering and Post Graduate program in Civil Engineering (Structural Engineering).

Department of Electronics and Telecommunication Engineering

The Department of Electronics and Telecommunication Engineering was established in the year 1994 with the aim of providing state-of-the-art education in the field of Electronics and Telecommunication engineering. Since then, the department has evolved to match the ever-changing needs of the industry with highly qualified faculty members and staff. Ensuring the efforts for continuous development the Department is reaccredited by NBA. The department strives for the all-round development of the students by implementing Outcome Based Education systems with a regular focus on extra-curricular and co-curricular activities.

Department of Mechanical Engineering

Department of Mechanical Engineering was established in the year 1994 with the objective of imparting the knowledge and developing practical skills in the various areas of Mechanical Engineering. The Department has been Re-accredited by NBA and has an intake of 60 students. The Department imparts the skills and expertise in the areas of Design, Thermal sciences, Manufacturing and Renewable energy that are the backbone of Industries. The Department also offers consultancy in the field of Material testing, Product & Process Design, Energy Audit, ISO certification to the Industries. Department caters to the students varied interest through student activities. Team VCET Selection is renowned National level champion team for years together.

Patrons

Chief Patron

Shri. Vikas Vartak, President, Vidyavardhini

Patron

Shri . Arun Vartak, Chairman, Vidyavardhini

Shri. Shantaram Jadhav, Vice President, Vidyavardhini

Shri . Pandurang Naik, Vice President, Vidyavardhini

Shri . P. D. Kodolikar, Vice President, Vidyavardhini

Shri . Bhausaheb Mohol, Secretary, Vidyavardhini

Shri . Hasmukhbhai Shah, Treasurer, Vidyavardhini

Dr. Harish Vankudre, Principal VCET

Conveners

Dr. Amrita Ruperee

HoD, Electronics & Telecommunication Engineering

Dr. Uday Aswalekar

HoD, Mechanical Engineering

Co-ordinators

Dr. Sunayana Jadhav

E-mail: sunayana.jadhav@vcet.edu.in

Mobile No: +91 9766715766

Mr. Sanjay Lohar

E-mail: sanjay.lohar@vcet.edu.in

Mobile No: +91 9594906115

Vidyavardhini's College of Engineering & Technology

Approved by AICTE and affiliated to the University of Mumbai
Accredited by NAAC

In association with



Presents

One Week Student Development
Programme (SDP)

on

Industry 4.0:
Paradigm Shift in Technology

Date : 26th June to 01st July 2023

Organized by

Department of Electronics and
Telecommunication Engineering
(NBA Accredited)

&

Department of Mechanical Engineering
(NBA Accredited)

K.T. Marg, Vasai Road (W),
Dist. Palghar, Maharashtra 401202
Contact No: 0250-2339486
Website: <https://vcet.edu.in>

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About the Programme

The aim of this student development program is to make students aware about the latest technologies. This SDP will make attendees enhance their knowledge of current trends of automation, data exchange, IOT ecosystem, Cognitive & Cloud Computing.

Objective

- To update Industry 4.0 among the academia and provide framework to the next generation.
- To update the research scholars, academic faculties and people from industry with state-of-the-art technologies.

Key features of the SDP

- Offline sessions by Industry experts and academicians.
- Hands-on sessions on latest software and equipment.
- Industrial Visit and discussion forum on research problems.

Expected Outcomes

- Understand the Industry 4.0 architecture and eco-system.
- Integrate hardware and software for the state of the art technology.
- Apply smart methods of self-optimization, self-configuration, self-diagnostic, cognitive and intelligent support to complex problem.

Topics To Be Covered

- Building Blocks of IIOT
- Cyber Security
- AI & ML with its real time application
- Sensor Technology & its application
- Cloud Computing
- Condition Monitoring techniques
- Robotics and Automation
- Smart / Additive Manufacturing
- Augmented reality/Virtual reality/Mixed reality
- Digital Twin Technology
- 5G Technology

Eminent Speakers

Dr. Rita Jain

Co-Founder, AVRN Intellitech Pvt. Ltd Bhopal.

Dr. Harish Chandar

Founder, Director, INDIATECH

Dr. Satyanarayana Bhesette

Scientific Officer(H), Dept. of High Energy Physics, TIFR, Mumbai

Mr. B. A. Damahe,

Head- STA, L&T Skill Trainers Academy, Mumbai

Dr. Bhushan Jagyasi

Associate Director Accenture Technology, India

Dr. Shravani Shahapure

Data Security and Quantum Safe, Technical Head, Capgemini

Mr. Balasaheb Bhosale

Factory Head, Amul India Ltd., Mumbai

Dr. Harshit Dave

Associate Professor, SVNIT, Surat

Dr. Rajesh Buktar

Professor, SPCE, Mumbai

Dr. Saurabh Mehta

CAO, Professor, Vidyavardhini Institute of Technology, Mumbai

Dr. Dipti Patil

Dean Student Affairs, Cummins COE, Pune

Programme Committee

Mrs. Shraddha Gosavi

Mrs. Ekta Naik

Mrs. Trupti Shah

Mr. Vishwas Palve

Mr. Kamlesh Bachkar

Mr. Ganesh Wahile

Event Details

Date : 26th June 2023 - 01st July 2023

Time: 9.00 am to 5.00 pm

Venue: VCET Seminar Hall.

Registration

Registration Fees: ₹200/-

Fee Payment : Registration fees can be paid through Gpay or any third-party UPI application to

Beneficiary Name: EKTA RAJPAL

Mobile No: 9987622741

UPI ID: rajpal.ekta@okhdfcbank

Registration Form:

<https://forms.gle/Kqu63MXym3gh1MEa7>

Registration QR



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Vidyavardhini's College of Engineering & Technology
 Student Development Programme
INDUSTRY 4.0: PARADIGM SHIFT IN TECHNOLOGY

26th June to 01st July 2023

Programme Schedule



Day/Time	10:00 to 11.30	11.30 to 11.45	11.45 to 1.15	1.15 to 2.00	2 to 3.30	3.30 to 3.45	3.45 to 5.15
Day 1 26-06-2023 (Monday)	Inauguration Function <i>Dr. Deven Shah</i>	T E A C H E R S	Session 1 Dr. Bhushan Jagyasi <i>Technology Innovation for Sustainable Development</i>	L U N C H B R E A K	Session 2 Dr. Amit Bhende <i>Condition Monitoring in Industry 4.0 scenario</i>	T E A C H E R S	Session 4 Dr. Ramchandra <i>Emerging Industry 4.0 Standard: A Blockchain Technology</i>
Day 2 27-06-2023 (Tuesday)	Session 1 Dr. Saurabh Mehta <i>5G Technology</i>		Session 2 Mr. B. A. Damahe <i>Applications of Industry 4.0</i>		Session 3 Dr. Rajesh Buktar <i>Industry 4.0 & Augmented Reality</i>		Session 4 Dr. Rajesh Buktar <i>Digital Twin & Smart Manufacturing</i>
Day 3 28-06-2023 (Wednesday)	Session 1 Dr. Dipti Patil <i>Industry 4.0 for Smart Healthcare</i>		Session 2 Dr. Harshit Dave <i>Composite 3D printing</i>		Session 3 Industrial Visit <i>Process Precision Instruments</i>		Session 4 Industrial Visit <i>Process Precision Instruments</i>
Day 4 29-06-2023 (Thursday)	Session 1 Dr. Harish Chandar <i>Modern Cybercrimes and Security- A Practical Approach</i>		Session 2 Dr. Harish Chandar <i>Modern Cybercrimes and Security- A Practical Approach</i>		Session 3 Mr. K.K. Muley <i>Hands on session on Real Time Applications of IoT</i>		Session 4 Mr. K.K. Muley <i>Hands on session on Real Time Applications of IoT</i>
Day 5 30-06-2023 (Friday)	Session 1 Mr. Abhishek Rane <i>Application of Robotics and IoT in Industry</i>		Session 2 Mr. Abhishek Rane <i>Application of Robotics and IoT in Industry</i>		Session 3 Industrial Visit <i>Amul India Pvt Ltd</i>		Session 4 Industrial Visit <i>Amul India Pvt Ltd</i>
Day 6 01-07-2023 (Saturday)	Session 1 Rajyog <i>Yoga for Stress free life</i>		Session 2 Dr. Shravan Shahapure <i>Quantum Safe Cyber</i>		Session 3 Valedictory Function		Session 4 Valedictory Function

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

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Tel.: 0250-2338234 (6 Line) • Email : vcet_inbox@vcet.edu.in • Website : www.vcet.edu.in

To,
Dr. Bhushan Jagyasi
Associate Director Accenture Technology.

Subject: A note of Thanks.

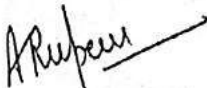
Respected Sir,

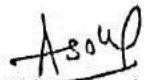
Greetings from Vidyavardhini's College of Engineering & Technology, Vasai.


We would like to take this opportunity to thank you for taking time from your busy schedule to be the speaker at our ISTE approved STTP/FDP on Industry 4.0: Paradigm Shift in Technology.

It was a great pleasure to listen to your wise words and learn so much from them. Everyone was amused by your deep insights on the subject. We are extremely grateful to you for discussing Technology Innovation for Sustainable Development on 26th June 2023 in your session and creating so much awareness regarding the same. It would be our immense pleasure to invite you once more to spread awareness about the subject in the near future.

Warm Regards,


Dr. Amrita Ruperee
FDP Convenor


Dr. Uday Aswalekar
FDP Convenor


Dr. Harish Vankudre
Principal



Vidyavardhini's College of Engineering and Technology,
Vasai Road (W)

Program	ISTE Approved One Week Faculty Development Program.
Title	Industry 4.0: Paradigm Shift in Technology
Duration	26/06/2023 to 01/07/2023
Number of Participants	37
Organized by	Department of Electronics & Telecommunication and Department of Mechanical Engineering
Faculty	Dr. Deven Shah Dr. Bhushan Jagyasi Dr. Amit Bhende Dr. Ramchandra Sharad Mangrulkar Dr. Saurabh Mehta Mr. B. A. Damahe Dr. Rajesh Buktar Dr. Dipti Patil Dr. Harshit Dave Dr. Harish Chander Mr. K. K. Muley Mr. Abhishek Rane Rajyog Dr. Shravani Shahapure
Description	26/06/2023 Inauguration Chief Guest – Dr Devan Shah Mrs. Shraddha Gowasi graciously welcomed the chief guest and participants as the inauguration ceremony commenced. The event commenced with the Saraswati Vandana, a reverential prayer dedicated to the goddess of knowledge, followed by the ceremonial lighting of the lamp. Followed by the rendition Maharashtra Geet. Dr. Amrita Ruperee, the Convener of the program and Head of the Electronics and Tele-communication Engineering department, provided a concise overview of the topics that will be covered during the ISTE approved STTP/FDP on Industry 4.0 Paradigm Shift in Technology, spanning six days. Dr. Harish Vankudre, the Principal of VCET, delivered an insightful address to the



Vidyavardhini's College of Engineering and Technology,
Vasai Road (W)

participants, emphasizing the transformative advancements that the fourth industrial revolution has brought to the manufacturing industry.

Mr. Sanjay Lohar introduced the esteemed chief guest, Dr. Devan Shah, shedding light on his illustrious career accomplishments and numerous accolades. Dr. Devan Shah proceeded to deliver a comprehensive session on the importance of blockchain technology in Industry 4.0, providing participants with an in-depth introduction covering both fundamental and advanced concepts.

Concluding the ceremony, Dr. Uday Aswalekar, the Convener of the program and Head of the Mechanical Engineering Department, delivered the Vote of Thanks. He expressed gratitude to the Management of Vidyavardhini's College of Engineering and Technology, ISTE, and the principal, for their invaluable support in organizing the faculty development program. Dr. Uday Aswalekar also extended his appreciation to the coordinator for their dedicated efforts in arranging FDP. The ceremony concluded with the rendition of the National Anthem.

Session 1: Technology Innovation for Sustainable Development

Resource Person: Dr. Bhushan Jagyasi

Topics Covered:

Renewable Energy

Energy Storage

Smart Grids:

Circular Economy:

Precision Agriculture:

Sustainable Transportation:

Water Management:

Climate Monitoring and Adaptation:

Social Innovation:

Dr. Bhushan Jagyasi introduce advancements in solar, wind, and hydroelectric power technologies drive the transition to clean and sustainable energy sources. Technology promotes resource efficiency, waste reduction, and recycling through advanced analytics, AI, and IoT applications. Digital technologies enhance agricultural practices, optimizing resource use, reducing waste, and increasing crop yields. Technology, such as blockchain, fosters social innovation by promoting transparency, fair trade, and responsible sourcing

Session 2: Condition Monitoring in Industry 4.0 scenario.

Resource Person: Dr. Amit R. Bhende

Topics Covered

- Industrial Revolution
- Key Components of Industry 4.0
- History of condition monitoring
- Condition Monitoring in Industry 4.0
- Condition monitoring Before and After Industry 4.0



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Vasai Road (W)

- Industry 4.0 Architecture in Condition Monitoring
- Design of IOT system
- Challenges in Industry 4.0 scenario.
- Cyber security

Dr. Amit Bhende delivered a session on the significance of condition monitoring in Industry 4.0, emphasizing the correlation between industrial development and economic growth. He provided insights into the concept of condition monitoring within the context of Industry 4.0, accompanied by a compelling case study illustrating motor condition monitoring.

Session 3: Emerging Industry 4.0 standard: Block chain technology
Resource Person: Dr. Ram Mangrulkar

Topics covered.

- Supply chain Management
- Why blockchain is important in industry 4.0.
- Overview of Industries using Supply chain solutions.
- Initiatives in India
- Solutions & Block chain frameworks
- Demo on blockchain technology(demoblockchain.org, blockchain.basics.com)
- example on Distributed blockchain.
- Demo of Mining and Validation (etherscan.io)
- Introduction to Merkle tree
- Understanding definition: Distributed, Transparent.

During his presentation, Dr. Ram Mangrulkar highlighted the significance of blockchain technology as it rapidly establishes itself as a standard in Industry 4.0. Blockchain offers a decentralized and transparent framework that ensures secure data sharing, traceability, and fosters trust among diverse stakeholders within the industrial ecosystem.

27/06/2023

Session 1:

Resource Person: Dr. Saurabh Mehta, CAO, Professor, Vidyalankar Insititute of Technology.

Topics Covered:

- Introduction to 5G technology
- Application of 5G technology
- Impact of 5G technology in IoT

Dr. Saurabh Mehta conducted session on 5G Technology. In this session Dr. Mehta introduced working of 5G technology and discussed basic architecture of 5G technology. Further, Dr. Mehta discussed 5G Nanocore features in detail



and covered upon design of 5G mobile network. Lastly, Dr. Mehta cleared doubts of participants on topic of 5G technology.

27/06/2023

Session 2:

Resource Person: Mr. B.A. Damahc, Head- STA, L&T Skill Trainers Academy, Mumbai

Topics Covered:

- Introduction to IoT and Industry 4.0.
- Architecture of IoT in applications in Industry 4.0
- Case study discussion and assignment solving.

Mr. B.A. Damahe conducted session on topic of applications of Industry 4.0, where he discussed applications of Industry 4.0 and its architecture. He further discussed IIoT- Art of Possibility and 09 pillars of IoT industry. Lastly he discussed on 06 principles of IoT in Industry 4.0 and concluded the session with question and answers from the participants.

27/06/2023

Session 3 &4:

Resource Person: Dr. Rajesh Buktar, Professor, SPCE, Mumbai

Topics Covered:

- Introduction to Industry 4.0.
- Different components of Industry 4.0
- Augmented reality
- Digital Twin & Smart Manufacturing

Dr. Rajesh Buktar, Professor, SPCE, Mumbai conducted session on Industry 4.0 & Augmented Reality and Digital Twin & Smart Manufacturing. Dr Buktar introduced the importance of smart manufacturing in Industry 4.0. He explained the concepts of AR/VR with numerous examples and showcased case studies related to it. He further discussed the concept of Digital Twin and its showcased case study example.

28/06/2023

Session 1: Industry 4.0 for smart healthcare

Resource Person: Dr. Dipti Patil

Topics Covered:

- Internet of Things (IoT) and Connectivity
- Big Data Analytics
- Artificial Intelligence (AI) and Machine Learning (ML)
- Robotics and Automation
- Telemedicine and Remote Care
- Cybersecurity and Data Privacy



- Personalized Medicine
- Collaborative Ecosystems

Dr. Dipti Patil discussed how Industry 4.0 technologies are transforming healthcare into a more interconnected, data-driven, and patient-centric ecosystem, offering numerous opportunities for improved healthcare delivery, cost reduction, and better health outcomes.

Session 2: Composite 3D Printing

Resource Person: Dr. Harshit Dave

Topics Covered:

- Material Variety
- Enhanced Material Properties
- Tailored Material Combinations
- Improved Structural Performance
- Lightweight Design
- Design Freedom
- Multi-Functionality
- Process Optimization
- Industrial Applications
- Sustainability

Dr. Harshit Dave highlighted the advancements and benefits of composite 3D printing, which has the potential to revolutionize manufacturing processes, enable new applications, and drive innovation in various industries.

Session 3 & 4 : Industrial Visit

Location: Sick India Ltd.

29/06/2023

Session 1 & 2:

Resource Person: Dr. Harish Chandar, Founder Director INDIA TECH.

Topics Covered:

- Various modern cybercrimes.
- How to verify safe websites.
- Different methods to safeguard personal information.

Dr. Harish Chandar, Founder Director INDIA TECH, conducted session on Modern Cybercrimes and Security- A Practical Approach. In this session Dr. Chandar showcased different methods which cyber criminals endorse to dupe people. He showcased different methods to safeguard against this crimes by doing hands on session. Dr. Chandar also discussed various case studies in which such crimes were conducted and showcased ways to prevent this. Lastly, he cleared doubts of participants on topic related to cybercrimes.



Vidyavardhini's College of Engineering and Technology,
Vasai Road (W)

29/06/2023

Session 3 & 4:

Resource Person: Mr. K.K. Muley

Topics Covered:

- Hands on session on IOT and its real time applications.
- IOT Architecture
- Communications option in IOT

Mr. K. K. Muley and his team conducted hands on session on IOT and its real time application. He discussed various communication options in IOT and discussed IOT architecture. Mr. Muley conducted hands on session on IOT Microcontroller Kit and demonstrated its importance. Lastly, Mr. Muley cleared doubts of participants on topics related to sensors, controllers, etc.

30/06/2023

Session 1&2: Application of Robotics and IoT in Industry

Resource Person: Mr. Abhishek Rane

Topics Covered

- Robotics in Industry
- IoT in Industry
- Integration of Robotics and IoT
- Industry 4.0 and Smart Factories
- Industrial Applications

During his demonstration, Mr. Abhishek Rane showcased the Python programming code for a line-following robot. He also discussed the challenges involved in designing the robot, particularly emphasizing the variations in sensor grades used. Mr. Rane recommended using sensors that adhere to industry standards for optimal performance.

Session 3 & 4 : Industrial Visit

Location: Amul Dairy Ltd, Virar.

01/07/2023

Session 1

Resource Person: Rajyog

Topics Covered:

- Importance of Yoga
- Yoga poses to build physical wellness.
- Importance of Mental strength.



Rajyog faculty demonstrated various yoga poses to build physical wellness. All participants did yoga poses along with trainer. BK Bharti held session on Importance of Mental strength and told numerous ways to keep mental wellness.

01/07/2023

Session 2

Resource Person: Dr. Shravani Shahapure, Data Security and Quantum Safe, Technical Head, Capgemini.

Topics Covered:

- Importance of Cybersecurity.
- Quantum computing
- Data Security

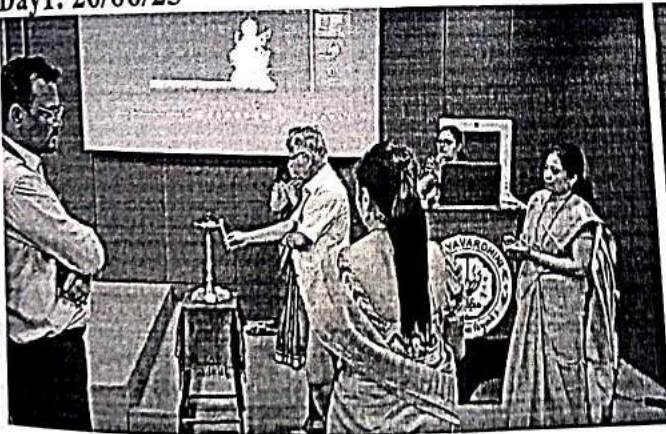
In this session Dr. Shravani Shahapure discussed on Importance of Cybersecurity in today's scenario. She further explained basic structure of cybersecurity and highlighted role of upcoming technologies like quantum computing in cybersecurity. Dr. Shahapure also discussed various roles in cybersecurity for new aspirants, and lastly she cleared participants doubts on topic related to cyber crimes and security aspects.

Valedictory Function:

Prof. Sanjay Lohar gave valedictorian speech where he summarised the sessions of different topics covered in the FDP. He further emphasized on importance of knowledge gained in FDP and its future scope. He further thanked all the participants for putting up their hard work for successfully completing the FDP.

Photographs

Day1: 26/06/23

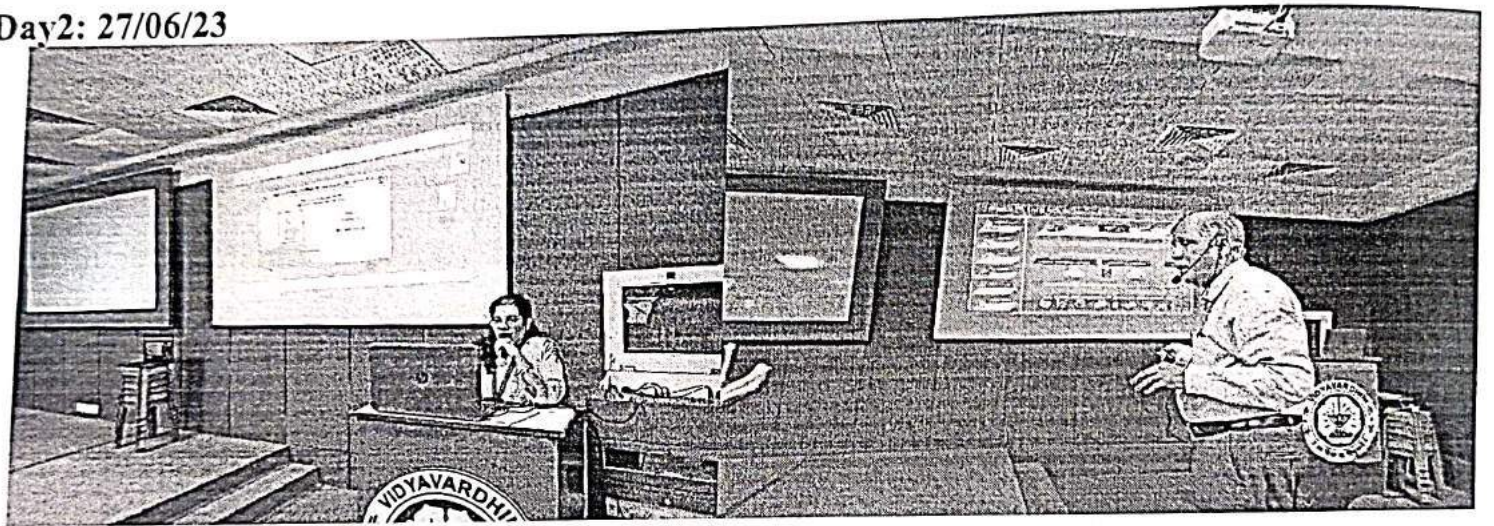




Vidyavardhini's College of Engineering and Technology, Vasai Road (W)



Day2: 27/06/23





Vidyavardhini's College of Engineering and Technology,
Vasal Road (W)



Day3: 28/06/23

Building Blocks of industry 4.0 for healthcare

- IoT and IoMT
- Augmented Reality
- Cyber Security
- Big Data Analytics
- Smart home/mobile technologies
- Machine Learning
- Cloud Computing
- System Integration
- Simulation and Modeling
- RFID Technologies
- Digital Manufacturing
- Advanced Autonomous Robotics

Industry 4.0



Vidyavardhini's College of Engineering and Technology
Vasal Road (W)
Day 3 Session 1
"Industry 4.0 for Smart Healthcare"

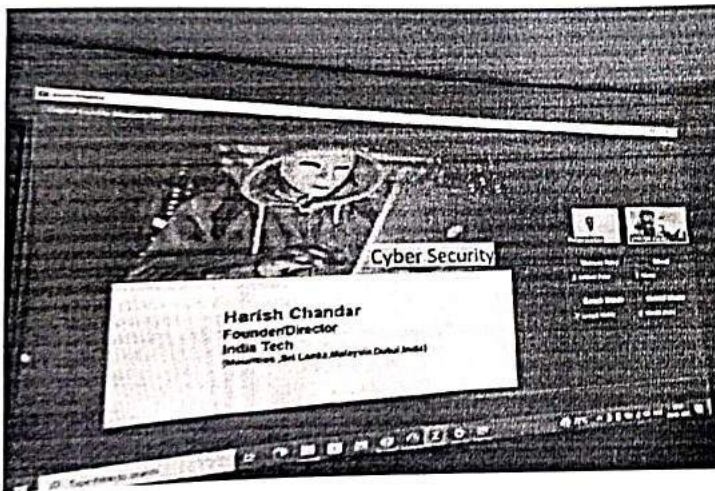




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Day4: 29/06/23

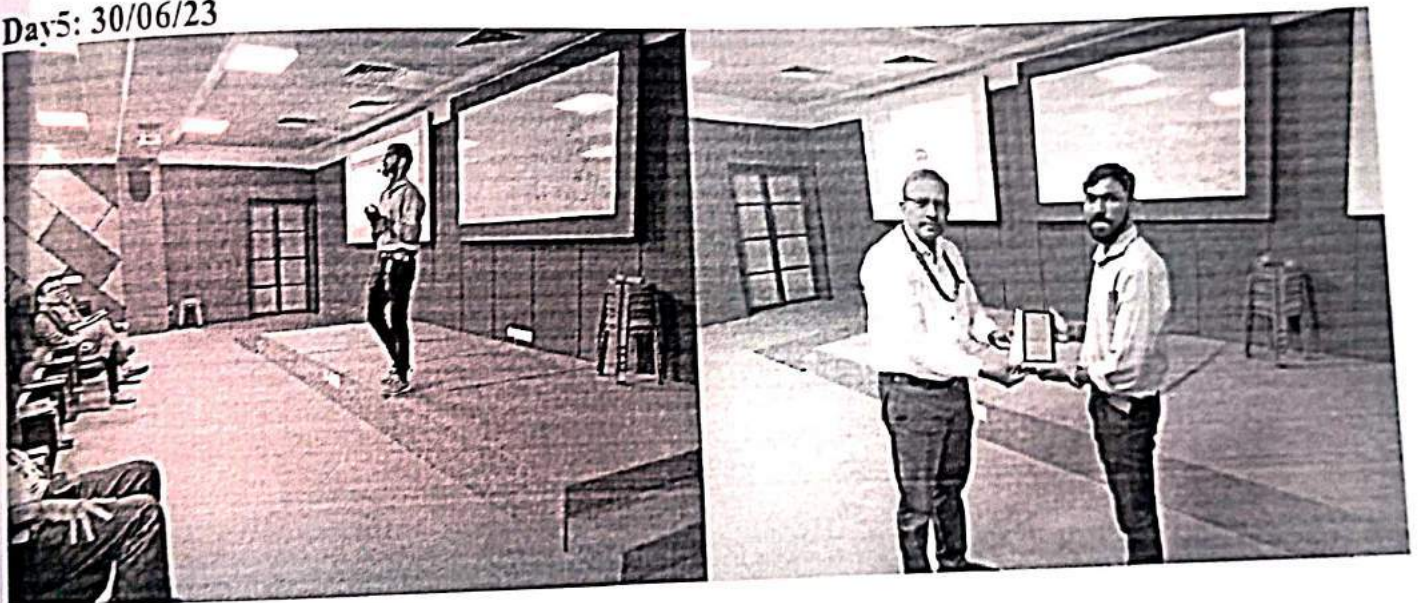




Vidyavardhini's College of Engineering and Technology,
Vasai Road (W)



Day5: 30/06/23





Vidyavardhini's College of Engineering and Technology,
Vasai Road (W)





4 Courses

Sep 18, 2022

Vijay Rajaram Patil

has successfully completed the online, non-credit specialization

C++ Basics: Selection and Iteration

C++ Basic Structures: Vectors, Pointers, Strings, and Files

C++ Object Basics: Functions, Recursion, and Objects

Object-Oriented C++: Inheritance and Encapsulation

Programming in C++: A Hands-on Introduction

This specialization is intended for people without programming experience who seek to develop C++ programming skills and learn about the underlying computer science concepts that will allow them to master other programming languages quickly. These four courses will cover everything from fundamental programming design. These topics will help you write anything from simple programs to automate repetitive tasks. Larger applications, giving you enough understanding of C++ to tackle more specialized topics such as Data Science and Artificial Intelligence.

Elise Deitrick, PhD
VP of Product
Codio

Anh Le
Curriculum Developer
Codio

Kevin Noelsaint
Curriculum Developer
Codio

9_Programming in C++

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:
<https://coursera.org/verify/specialization/708M5BASM33Q>



Advance Python Programming

The course is designed by industrial experts from basics to intermediate.

It's divided into modules and further divided into sub-modules.

The Advance Python Programming course contains both Practical and Theory. It will cover everything from OOP concepts to GUI in python

About the Advance Python Programming

Python is a powerful, versatile, and popular programming language. It is widely used in many industries, from web development to data science. If you are an experienced programmer looking to take your skills to the next level, then consider learning advanced Python course programming.

Advance Python programming Tutorial Course goes beyond the basics of the language, allowing you to write more efficient and sophisticated code. In this guide, we will discuss some of the key aspects of python advanced tutorial. We will cover topics such as generators, context managers, object-oriented programming, meta classes, unit testing, and pattern matching.

We will also explore how these concepts can be applied to develop complex applications. By the end of this guide, you should have a better understanding of how to use Python to create more sophisticated software solutions. Furthermore, you should have acquired the knowledge necessary to work with larger projects that involve multiple files, functions, and libraries. To get started, let's look at one of the most important concepts of advance Python programming tutorial: generators. Generators are functions that return values iteratively. This means that instead of returning one single value, they yield multiple values when iterated through. Generators are useful for performing tasks like creating lists or calculating values without consuming too much memory.

What is the Advance Python Programming | Advanced Python

Learn Advance Python Programming is a higher-level programming language used for developing sophisticated software applications. It has become popular among developers due to its flexibility and ease of use. Learn Advance Python Programming allows developers to write code quickly and efficiently while achieving complex tasks. It's an ideal language for web development, data science, machine learning, and artificial intelligence projects.

Learn Advanced Python course Programming is based on the C programming language's syntax, making it easy to read and understand. It also includes many features such as variables, classes, objects, strings, lists, dictionaries, and other data types. Additionally, Advanced Python Programming offers features such as libraries, modules, and packages that can be used to create powerful applications.

The most important feature of Advance Python Programming is its wide range of features that make it suitable for many different applications. Developers can use it to create user interfaces, web applications, websites, network applications, and games. In addition, developers can use it to develop large scale applications such as scientific and numerical computing, artificial intelligence projects, graphical user interfaces, and game engines. Advance Python Programming tutorial has become a popular choice among developers due to its speed, scalability, and powerful capabilities. As a result, many organizations have adopted Advance Python Programming as their primary programming language. Its popularity is expected to grow in the future as more companies begin to use it in their projects.

Why should you learn Advanced Python Programming?

Python Advanced tutorial is a powerful programming language that can be used for a variety of tasks, from web development to data science. It is one of the most popular languages among developers today. Learning Advance Python Programming will open up many doors for you in terms of career opportunities, as it is in demand in many different industries.

Advanced Python course Programming tutorial offers a wide range of features and capabilities, including object-oriented programming, metaclasses, unit testing, pattern matching and more. This makes it well-suited for tasks ranging from small scripts to large applications. It is also an easy language to learn and use, with a comprehensive library and helpful online resources.

For those who are looking to move their career forward, learning python advanced tutorial can be a great way to start. It is versatile, powerful, and easy to use, so it is perfect for anyone who wants to become a more versatile programmer. Additionally, knowing this language can help you create better web applications and develop faster and more efficient algorithms.

Overall, if you're looking to make your mark in the world of programming, learning Advance Python Programming is a must. Its wide range of features and capabilities make it an ideal language for a variety of tasks, from web development to data science. It is also an easy language to learn and use, so even those with limited coding experience can get up and running quickly. With the right approach, you can be confident that learning Advance Python Programming will open up many opportunities for you.

What jobs are available after the Learning Advance Python Programming?

Python Advanced tutorial Course is one of the most sought-after skills in the tech industry, and it is a great way to get ahead in your career. With its versatility, you can easily apply it to many different areas and fields, such as software development, data science, machine learning, web development, and more. Software Development: With Advance Python Programming, you can create complex software applications for both desktop and mobile platforms. You can also work with databases to store and manage data. You will be responsible for designing, coding, testing, and debugging various

applications as well as working on developing new features or improving existing ones.

Data Science: Learn Advanced Python Programming Course can be used for data analysis and predictive analytics. With its wide array of libraries, you can explore and analyze large datasets. You can use Advance Python Programming Course to develop algorithms that can help identify patterns, trends, and insights from data. **Machine Learning:** Advance Python Programming is used to create algorithms that can learn from data and make predictions. You can use it to create predictive models that can be used for various applications such as fraud detection, customer segmentation, natural language processing, and more.

Web Development: With learn Advanced Python Programming, you can create dynamic websites and web applications. You can use the language to develop web frameworks and web APIs that can help with user interaction and data retrieval. You will also be responsible for writing code for front-end and back-end development.

Course Content

Read Me

Read Me

Object Oriented Programming

OOP Concepts

Special Method

Magic Methods

CGI Programming

CGI Programming (Part-1)

CGI Programming (Part-2)

Generators

Generators & Iterators

MySQL Database Access

MySQL Database

Networking in Python

Socket Programming (Part-1)

Socket Programming (Part-2)

Sending Email

Sending email in python

GUI Programming

GUI in Python (Part-1)

GUI in Python (Part-2)

Alpha Plus | Placement Batch



Alpha Plus | Placement Batch (Java) Let's get the journey started!

Course Duration - 4 months
Course access will be One year.

With this course, you will get:

- Complete Java Language
- Complete Data Structures & Algorithms
- Live Doubt Assistance
- Library of Qs with Video Solutions of Top Companies
- Alternate Day Chapters
- Live Resume Preparation
- Live Interview Preparation & other sessions
- 300+ Coding Questions on All Important Topics (asked by Top Companies)
- Course Start Date - 17th Sept, 2023

Contact Us:

Payment Details

11_Java with DSA

Amount

₹ 7,500.00

Special Offer! (18% GST included which is paid to the Government.)

Email

Please recheck this email as course access will be given here

Phone

Please recheck as we might use this to add you to the community.

Full Name

Please enter your full name

UPI VISA RuPay

Pay ₹ 7,500.00

Certificate of Achievement

Congratulations!

Pranali Kale

for successfully completing

TCS iON Career Edge - Young Professional

a course that covers

Communication Skills | Presentation Skills | Soft Skills | Career Guidance Framework | Resume Writing
| Group Discussion Skills | Interview Skills | Business Etiquette | Effective Email Writing | Telephone
Etiquette | Accounting Fundamentals | IT Foundational Skills | Overview of Artificial
Intelligence*(Source: NPTEL)

Start Date: 14 Jun 2023

End Date: 20 Jul 2023

Mehul Mehta

Mehul Mehta
Global Delivery Head - TCS iON,
Tata Consultancy Services

12_TCS iON
Career Edge-
Young Professional



CERTIFIED

Cert ID: 119854-24507352-1016
Date: 20 Jul 2023

NPTEL WORKSHOP 2022

At Wadhvani Electronics Laboratory

13_NPTEL Lab
Workshop :Electronics devices and
charectorization



About the Workshop

- WEL has conducted more than 20 workshops at various engineering colleges across India in the last decade and has trained more than 2,000 teachers to use the hardware and laboratory content developed in WEL
- A two-week workshop was conducted by WEL in association with NPTEL, from July 4, 2022, to July 15, 2022, that focussed on skill development within the lab

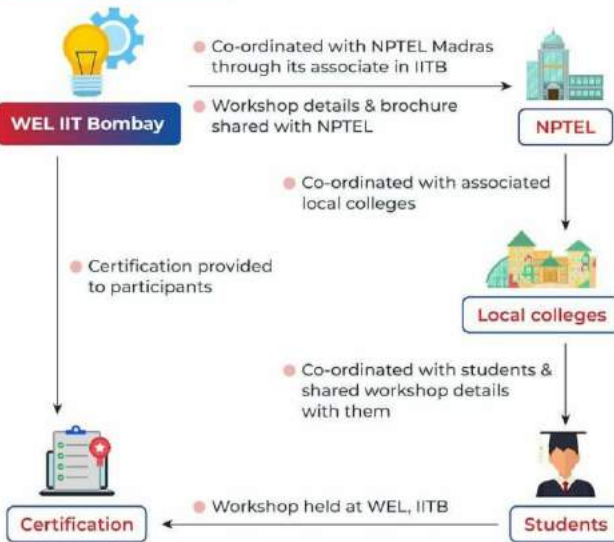
Courses offered

- Digital system design & verification using CPLD
- Microcontroller lab using Pt-51



Outreach

Operational model



Sneak peak into the workshop

A total of **99 students** from different local colleges enrolled for the workshop, of which **50+ students** completed it



Student testimonials

Diya Shetty

Course: Digital System Design and Verification using CPLD

I had a great time in the past two weeks; the workshop was paced very well, adequate content was covered & all the TAs were extremely helpful & patient.

Suraj Chaudhary

Course: Microcontroller Lab based on Pt-51

The experience was good; I liked the way lectures & lab-work were going hand-in-hand. The problems designed in the lab sheets helped us learn the concepts in a better way.

Himanshu Behera

Course: Digital System Design and Verification using CPLD

The co-ordinators are very supportive & the guides are always ready to explain each concept from scratch. Overall experience was technically enjoyable.



Are you are interested in attending such workshops?

Please contact us!



Infographic designed by

Ms Rutuja Dattatray Chalke

(Science illustrator, WEL, IIT Bombay)





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Wadhawani Electronics Laboratory
Dept. of Electrical Engineering,
IIT Bombay, Powai, Mumbai - 400076
Phone: 022 2159 3524





Vidyavardhini's College of Engineering & Technology
Training and Placement Cell

14_Cometative Exam &
Aptitude Training by
Gyanteerth

Title of the Event	Aptitude Training
Date	04/08/2022 and 05/08/2022
Venue	Vidyavardhini's College of Engineering and Technology
Number of Students	480(All Departments)

Mr. Prafulla Patil
Placement Manager, VCET



Mr. Sanket Patil
TPO, VCET

Academic Year 2022-23
REPORT ON APTITUDE TRAINING

Program: Aptitude Training

Organization involved: Gyanteerth

Duration: 4/08/2022 - 5/08/2022

16/01/2023 - 21/01/2023

Objectives:

- Enhancing Problem-solving Skills
- Strengthening Analytical Abilities
- Improving Quantitative Reasoning
- Developing Logical Reasoning Skills
- Building Verbal Aptitude
- Preparing for Competitive Exams
- Fostering Time Management Skills
- Boosting Confidence.
- Cultivating Critical Thinking

The aptitude training program was conducted for 2024 batch students. The key objective was to enhance the participants' problem-solving abilities and analytical skills. The program included various modules covering quantitative aptitude, logical reasoning, and verbal aptitude. The training aimed to equip the participants with the necessary tools to excel in competitive exams and develop critical thinking skills applicable in various professional scenarios.

The syllabus for the training is as follows:

Product	Number of Students	Hours
Aptitude Training – 40 hours	2024 Batch	40
Communication Training 20 hours	2024 Batch	20

Vidyavardhinis College of Engineering & Technology, Vasai
Training & Placement Cell

Technical Training: - C, C++, Data Structure & Java - 20 hours	2024 Batch	20
Add on: - Technical Training (Special Batch): - 20 hours	2024 Batch (60 Students)	20
Online Portal for practice test (Company Specific Min 25 Tests)	2024 Batch	

The Terms and Conditions:

1. **Delivery Environment:** Mode: In-person, offline
2. **Delivery Medium Language:** Combination of English and Hindi
3. **Resources:** AV material, Reading material (personal copies for each participant)
4. **BatchSize:**80 students per batch. (5 Batches)



Figure 1: Expert guiding students

Vidyavardhinis College of Engineering & Technology, Vasai
Training & Placement Cell



Figure 2: Students attending the training session

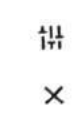
P. Patil

Prafulla Patil
Placement Manager, VCET

S. Patil

Sanket Patil
TPO, VCET





apitude training

Gmail

99+

Mail

Compose

Inbox

3,799

Chat

Starred

Snoozed

Sent

Drafts

288

Meet

More



Campus Recruitment Training for TE Students (16th Jan 2023 to 21st Jan 2023)

Inbox x

Fri, Jan 13, 11:52 AM



VCET T&P Cell <placements@vcet.edu.in>
to hod, teampat, Harish, Vishal, iic, dean_academic

Dear all,

Training and Placement Cell is organizing a Campus Recruitment Training for all TE Students from **16th Jan 2023 to 21st Jan 2023**.

Training Institute: **Gyanteerth**

Please find the training schedule mentioned below:

Rooms Allotted	Branch	Session Timing
214	COMPS	9:30am - 12:30pm
215	EXTC, INSTRU	Break
216	IT	
Ground Floor Seminar Hall	MECH, CIVIL	1:30pm - 4:30pm
3rd Floor Seminar Hall	CSE-DS, AI-DS	

Training session Content: Verbal-Ability, Quant-Vedic maths, Quant-Arithmetic, Quant-Numbers, Quant-Geometry.

Aptitude Training for Third Year Students

Date – 16th Jan 2023 to 21st Jan 2023

1. The training of phase 1 was purely focused on Aptitude. The objective of the training was to cover all the aspects of Aptitude keeping in mind the difficulty level of major mass recruiters as well as product-based companies.
2. Considering the objective in mind the training started in 5 batches understanding the student's ability to grasp the concepts and based on their pre assessment the content and level of questions were discussed during the sessions.
3. Students were very responsive as they understood the importance of Aptitude not only from the perspective of placements but in general from the point of view of competitive exams as well.
4. Major portion related to Quantitative Aptitude, Logical Reasoning was covered during these sessions and problems from all the difficulty levels from these areas were discussed during the sessions.
5. A lot of emphasis on company specific questions from each topic was given during the training to understand the exact difficulty level of every type of recruiter.
6. New topics in Aptitude which are introduced specially in product-based companies were also discussed to give them the exposure on the current changing recruitment paper patterns.
7. Students were very receptive and they have given a very good response to all the trainers.
8. Assignments were given to students after every topic along with the regular practice questions to enhance their grip on all the topics.
9. Overall, the experience was really excellent and looking forward to Phase II.

Schedule:

CAMPUS RECRUITMENT TRAINING - SCHEDULE										
Day Date	Session 1 09:30 PM - 12:30 PM					Session 2 01:30 PM - 04:30 PM				
	AI/DS-CSE	ETC	CSE	MECH-CVL	IT	AI/DS-CSE	ETC	CSE	MECH-CVL	IT
Day 1 16.01.2023	Amit Sir	Rohit Sir	Raju Sir	Swapnil Sir	Ankit Sir	Raju Sir	Rohit Sir	Swapnil Sir	Amit Sir	Ankit Sir
Day 2 17.01.2023	Number System	Number System	Number System	Percentage	Number System	Ratio and Pro	Number System	Percentage	Number System	Logical-Aug
Day 3 18.01.2023	Amit Sir	Ankit Sir	Raju Sir	Swapnil Sir	Rohit Sir	Raju Sir	Rohit Sir	Swapnil Sir	Amit Sir	Ankit Sir
Day 4 19.01.2023	Ratio-Ages-Part	Ratio-Ages-Part	Ratio-Ages-Part	Ratio-Ages-Part	Ratio-Ages-Part	Avg/Mix-All	Avg/Mix-All	Avg/Mix-All	Avg/Mix-All	Avg/Mix-All
Day 5 20.01.2023	Amit Sir	Ankit Sir	Raju Sir	Swapnil Sir	Rohit Sir	Raju Sir	Rohit Sir	Swapnil Sir	Amit Sir	Ankit Sir
Day 6 21.01.2023	%-PLD	%-PLD	%-PLD	%-PLD	%-PLD	Clock-Calendar	Clock-Calendar	Clock-Calendar	Clock-Calendar	Clock-Calendar
	Amit Sir	Ankit Sir	Raju Sir	Swapnil Sir	Rohit Sir	Raju Sir	Rohit Sir	Swapnil Sir	Amit Sir	Ankit Sir
	STD	STD	STD	STD	STD	Sylogium	Sylogium	Sylogium	Sylogium	Sylogium
	Amit Sir	Ankit Sir	Raju Sir	Swapnil Sir	Rohit Sir	Raju Sir	Rohit Sir	Swapnil Sir	Amit Sir	Ankit Sir
	PC-Probability	PC-Probability	PC-Probability	PC-Probability	PC-Probability	Time & Work I	Time & Work I	Time & Work I	Time & Work I	Time & Work I
	Amit Sir	Ankit Sir	Raju Sir	Swapnil Sir	Rohit Sir	Raju Sir	Rohit Sir	Swapnil Sir	Amit Sir	Ankit Sir
	SI-CI	SI-CI	SI-CI	SI-CI	SI-CI	TW 2 - BR	TW 2 - BR	TW 2 - BR	TW 2 - BR	TW 2 - BR

Attendance Summary:

Day 1

	MECH	COMP	IT	EXTC	CIVIL	CSE DS	AI DS	INSTRU
Session1	A - 57 B - 30	70	57	61	29	71	35	10
Session2	A - 52 B - 28	70	62	61	20	71	36	10

Day 2

	MECH	COMP	IT	EXTC	CIVIL	CSE DS	AI DS	INSTRU
Session1	A - 58 B - 22	71	64	67	28	71	35	8
Session2	A - 54 B - 14	69	66	57	29	73	33	8

Day 3

	MECH	COMP	IT	EXTC	CIVIL	CSE DS	AI DS	INSTRU
Session1	A - 51 B - 24	68	69	68	32	72	35	8
Session2	A - 54 B - 18	68	68	63	27	64	33	8

Day 4 (19-01-23)

	MECH	COMP	IT	EXTC	CIVIL	CSE DS	AI DS	INSTRU
Session1	A - 50 B - 18	64	67	65	32	72	30	9
Session2	A - 53 B - 15	59	45	65	26	69	33	8

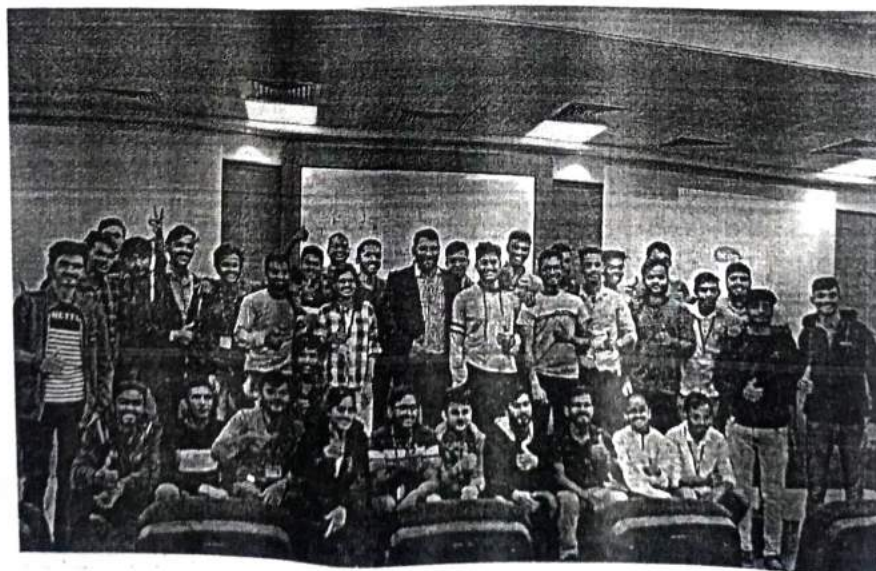
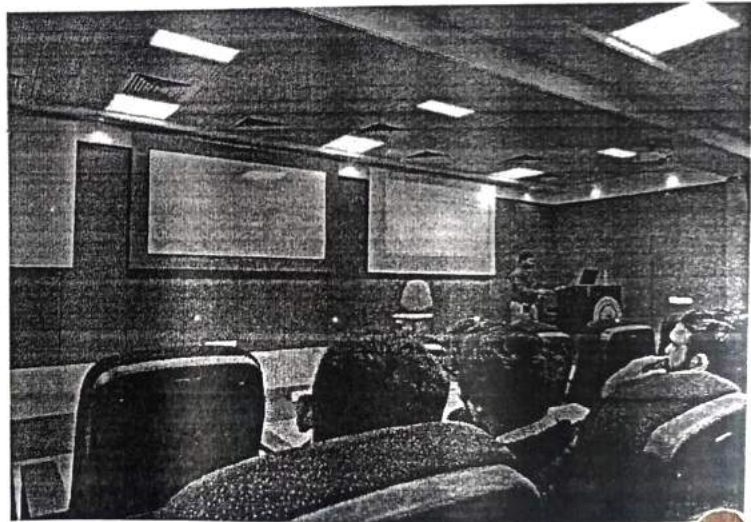
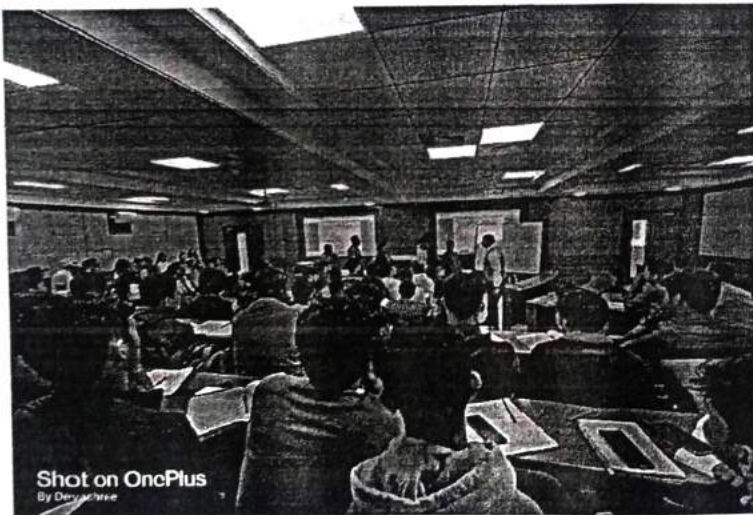
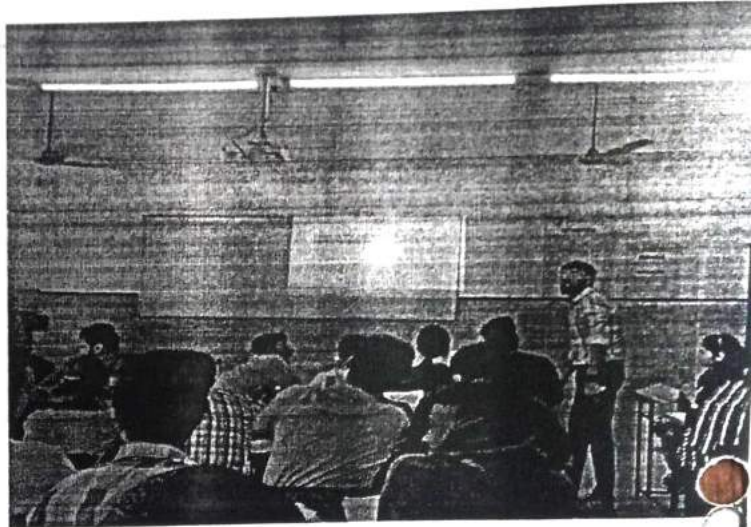
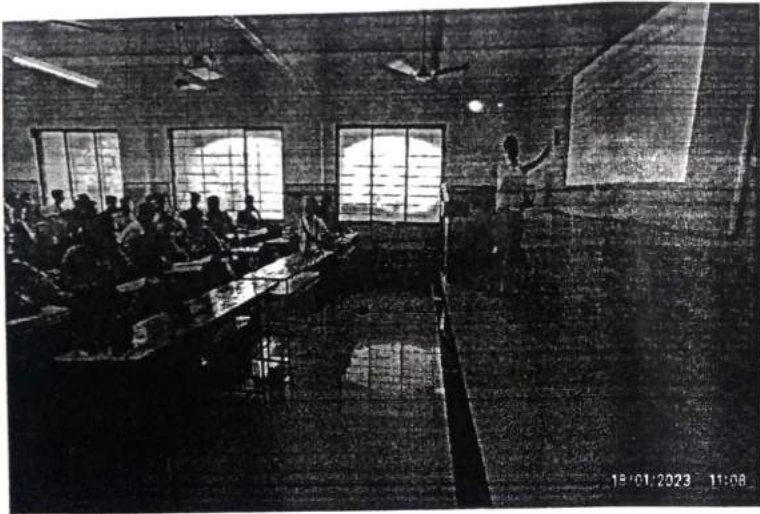
Day 5 (20-01-23)

	MECH	COMP	IT	EXTC	CIVIL	CSE DS	AI DS	INSTRU
Session1	A - 61 B - 27	60	55	69	29	66	30	7
Session2	A - 56 B - 27	59	49	67	26	65	27	2

Day 6 (21-01-23):

	MECH	COMP	IT	EXTC	CIVIL	CSE DS	AI DS	INSTRU
Session1	A - 62 B - 27	46	37	52	22	50	22	10
Session2	A - 50 B - 25	39	24	33	22	37	19	6

Glimpses of CRT :



Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

		<p>3. Financial Statement Analysis - How to calculate the ratios of a company, Operating Statements, Accounting Statements, Management Statements, Company Cashflows, Money Measurement, going concern, Cost, etc.</p> <p>4. Risk Management & Corporate Finance - Understanding and calculating various risks, micro and macro risks, Risk Treatment, risk avoidance, Corporate Governance, Capital Finance, Capital Structure, Shareholders, Project Finance.</p>	
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Registration fees for our Institute students is 300 rupees and for outside students 600 rupees.
Please permit this such that I can plan accordingly.

Praful Patil

Prafulla Patil,
Coordinator, IIIC

To
Registration / f(00)
- Approved
[Signature]
20/5/23.



**Report on Intra Institutional Internship on
Android Application Development using Kotlin**

15_Training on
Android application
development using
Kotlin

Two Weeks (10 Days) Summer Internship Program on Android Application Development using Kotlin was organised by Android Development Club (ADC) of Department of Computer Engineering & Industry Institute Interaction Cell of Vidyavardhini's College of Engineering and Technology in association with AutoStrings Pvt.Ltd for students from any discipline of the Engg.college from 12th June 2023 to 23rd June 2023. The sessions were conducted by Prof. Sneha Mhatre, Assistant Professor, Department of Computer Engineering, Vidyavardhini's College of Engineering and Technology.

The details of the Internship were as under:

Day 1 (12/6/23) Session 1:10:00 am to 1:00pm:

Introduction to Android: Overview of Android and Android SDK, History of Android and Android features

Android Architecture overview: Introduction to OS layers, Linux kernel, Libraries, Android Runtime and Application framework

Session 2:2:00 pm to 4:00pm:

Quiz and Assignments on above topics

Day 2 (13/6/23) Session 1:10:00 am to 1:00pm:

Overview of Android App using Kotlin, Installation of Android Studio

Session 2:2:00 pm to 4:00pm:

Quiz and Assignments on above topics

Day 3 (14/6/23) Session 1:10:00 am to 1:00pm:

User Interface: View Hierarchy, View Groups and Layouts, UI Events & Events Listener, Building Menus, Notifying users, Creating dialogs, Graphics & Animations and Applying styles and themes to UI.

Session 2:2:00 pm to 4:00pm:



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering

Quiz and Assignments on above topics

Day 4 (15/6/23) Session 1:10:00 am to 1:00pm:

Getting Started with Hello World App: Creating a Registration Form

Session 2:2:00 pm to 4:00pm:

Quiz and Assignments on above topics

Day 5 (16/6/23) Session 1:10:00 am to 1:00pm:

Overview of Autostrings Pvt.Ltd , working modules of Autostrings etc.

Day 6 (19/6/23) Session 1:10:00 am to 1:00pm:

Adding Radio Button, Spinner, and Images in App

Session 2:2:00 pm to 4:00pm:

Quiz and Assignments on above topics

Day 7 (20/6/23) Session 1:10:00 am to 1:00pm:

Creating a Search App and URL request

Session 2:2:00 pm to 4:00pm:

Quiz and Assignments on above topics

Day 8 (21/6/23) Session 1:10:00 am to 1:00pm:

Overview of project assigned to the students and demonstration of SQLite Database.

Day 9 (22/6/23) Session 1:10:00 am to 1:00pm:

Display Search Result, Playing Video using YouTube API

Session 2:2:00 pm to 4:00pm:

Quiz and Assignments on above topics

Day 10 (23/6/23) Session 1:10:00 am to 1:00pm:

Description of the Mini-Project to be submitted by the students



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering

On all the days 1 n half hour were dedicated for the students for practice. A total of 3 Quizzes and 7 Assignments were given to the participants to gauge their understanding about the topics covered on that particular day.

A total of 36 students took part in this internship, the name of the students has been attached.

Prepared by

Mrs.Sneha R. Mhatre 

Photos:



Hands On
Session



Felicitation and Session Conduction



Industry Institute Interaction Cell & Department of Computer Engineering

In Collaboration with Autostrings Pvt.Ltd.

SUMMER INTERNSHIP 2023

SUBJECT-Android Application Development

SCHEDULE (2 WEEKS)

Sr. No.	Topic	Date/Time	Resource person
1	Introduction to Android <ul style="list-style-type: none">• Overview of Android and Android SDK• History of Android• Android features Android Architecture overview <ul style="list-style-type: none">• Introduction to OS layers• Linux kernel• Libraries• Android Runtime• Application framework	12/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre
	Assignment and Quiz on above contents (Taken through Google Classroom)	12/06/2023 (2:00 to 4:00 pm)	
2	Overview of Android App using Kotlin, Installation of Android Studio	13/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre
	Assignment and Quiz on above contents (Taken through Google Classroom)	13/06/2023 (2:00 to 4:00 pm)	
3	User Interface <ul style="list-style-type: none">• View Hierarchy, View Groups and Layouts• UI Events & Events Listener• Building MenusNotifying users• Creating dialogs• Graphics & Animations• Applying styles and themes to UI	14/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre



Vidyavardhini's College of Engineering and Technology

	Assignment and Quiz on above contents (Taken through Google Classroom)	14/06/2023 (2:00 to 4:00 pm)	
4	Getting Started with Hello World App, Creating a Registration Form	15/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre
	Assignment and Quiz on above contents (Taken through Google Classroom)	15/06/2023 (2:00 to 4:00 pm)	
5	Real life Android application development	16/06/2023 10:00 to 1:00 pm	Mr. Hemchandra Sawant Director, Autostring s Pvt.Ltd.
	Assignment and Quiz on above contents (Taken through Google Classroom)	16/06/2023 (2:00 to 4:00 pm)	
6	Adding Radio Button, Spinner and Images in App ,Creating a Search App and URL request	19/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre
	Assignment and Quiz on above contents (Taken through Google Classroom)	19/06/2023 (2:00 to 4:00 pm)	
7	Display Search Result, Playing Video using YouTube API	20/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre
	Assignment and Quiz on above contents (Taken through Google Classroom)	20/06/2023 (2:00 to 4:00 pm)	
8	Introduction to Navigation Component, Architecture Component	21/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre
	Assignment and Quiz on above contents (Taken through Google Classroom)	21/06/2023 (2:00 to 4:00 pm)	
9	Advanced Navigation Application Examples	22/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre



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	Assignment and Quiz on above contents (Taken through Google Classroom)	22/06/2023 (2:00 to 4:00 pm)	
10	Mini Project (We will provide mini project topics)	23/06/2023 10:00 to 1:00 pm	Mrs.Sneha Mhatre


Mrs.Sneha Mhatre
Subject Co-ordinator



Siemens PLC Programming at Siemens Center of Excellence

- Basics of PLC.
- Programming /Project Development.
- Ladder Logic Programming / Interpretation.
- Function Block Programming.

Vacancy Positions 20
Registration Fees Rs. 800/-

Web Development

- Client side programming
- HTML programming
- Java script programming
- Web system architecture
- PHP programming

Vacancy Positions 30
Registration Fees Rs. 600/-

Microcontroller Programming and Applications at Texas Instruments Innovation Lab

- Microcontroller basics and programming fundamentals.
- Arduino – 8-bit Microcontroller
- MSP 430 Launch Pad: 16-bit Microcontroller.
- Tiva C launch pad: 32-bit Microcontroller.
- Interfacing of Sensor, actuators with Microcontroller.
- Applications using Blynk and Things speak cloud.
- RSLK Robot Kit

Vacancy Positions 30
Registration Fees Rs. 600/-

Fire Bird V robot Development at E-Yantra Robotics Lab

- Introduction to AVR Microcontroller and Programming environment.
- Analog sensor interfacing using Analog to Digital conversion.
- Robot programming for white line following
- Project-Application Development using Fire Bird Robot V-Restaurant Assistant: Order Taking Robot

Vacancy Positions 30
Registration Fees Rs. 600/-

Fiduciary Capital Internship- Project Management and Finance

- Basic Principles of Accounting.
- MicroEconomic and Macroeconomic Factors.
- Financial Statement Analysis.
- Risk Management & Corporate Finance .

Vacancy Positions 30
Registration Fees Rs. 600/-

Android Application Development using KOTLIN

- Introduction to Android and Android Architecture overview.
- Overview of Android App using Kotlin and Installation of Android Studio.
- User Interface and Getting Started .
- Introduction to Navigation Component, Architecture Component.
- Advanced Navigation Application Examples.

Vacancy Positions 40
Registration Fees Rs. 600/-

Artificial Intelligence & Data Science Department Internship- Data Science

- Introduction to Data Science Fundamentals
- Overview of Statistical Learning
- Regression Vs Classification
- Implementing Machine Learning Models
- Overview of Machine Learning
- Supervised Vs Unsupervised Learning
- Data Processing / Engineering
- Evaluating Learning Models

Vacancy Positions 30 Registration Fees Rs. 600/-

Internship Duration 12 June 2023 to 23 June 2023

For Details Please Contact 7710070966

for registration
https://docs.google.com/forms/d/e/1FAIpQLSeAYozTZOBUs8iumtZNJZchNfd_3Y66gkss4zeuXzzkbZwUg/viewform?fbzx=-2421642304654749672

Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

3rd May, 2023

To,

The Principal,

VCET, Vasai

Subject Proposal for summer-23 intra Institutional Internship.

Respected sir,

As per our discussion about the Internship program, IIC is planning an internship program from 19th June 2023 to 30th June 2023. These offline internships are planned in our campus at Siemens center of excellence, Texas Instrument innovation lab, E -Yantra Robotic lab, Dept. of Computer Engineering and Dept. of AI &ML. Our students as well as outside students will be allowed for the internship. Detailed proposal is as follows,

Sr. No.	Facility	Internship Topics	Positions Available
1.	Siemens Center of Excellence	<ol style="list-style-type: none">1. PLC Basics: Need and benefit of automation, PLC system: applications of PLC, PLC modules, I/O module, Communication module, PID module2. PLC Functions: PLC registers, PLC timer function, PLC counter function, PLC simple arithmetic and logical functions, PLC ladder logic diagram, Advanced PLC functions, Sequencer function, Output analog and digital devices3. Engineering Software TIA Portal: Product Lifecycle Management, Digital Enterprise Suite, TIA Portal – Central Engineering Framework, Scope of the Products, Automation License Manager, TIA Portal: Portal View and Project View, Window Arrangement Saving a Project, Archiving / Retrieving a Project4. SIMATIC S7-1200 with STEP7 V15: System Overview, PLC Tags, Programming Blocks, Troubleshooting & Trace Functionality, Memory card binding, Web server with user defined Web Pages, PID block	20
2.	Texas Instruments Innovation Lab	<ol style="list-style-type: none">1. Microcontroller basics and programming fundamentals.<ol style="list-style-type: none">a) Arduino – 8-bit Microcontrollerb) MSP 430 Launch Pad – 16-bit Microcontrollerc) Tiva C launch pad – 32-bit Microcontroller2. Interfacing of Sensor, actuators with Microcontroller3. Communication Protocols4. Introduction to Internet of Things (IoT)5. Applications using Blynk and Things cloud	30

Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

3.	E-Yantra Robotics Lab	<ol style="list-style-type: none"> 1. Introduction to Fire Bird V robot 2. Introduction to AVR Micro-controller and Programming environment 3. Simple Motion Control using I/O ports 4. Robot velocity control using pulse width modulation 5. Introduction to LCD interfacing 6. Analog sensor interfacing using Analog to Digital conversion 7. Interrupt programming 8. Robot programming for white line following 9. Project-Application Development using Fire Bird Robot V- RESTAURANT ASSISTANT: ORDER TAKING ROBOT 	30
4.	Android Application Development using KOTLIN	<ol style="list-style-type: none"> 1. Introduction to Android and Android Architecture overview 2. Overview of Android App using Kotlin and Installation of Android Studio 3. User Interface and Getting Started 4. Introduction to Navigation Component, Architecture Component 5. Advanced Navigation Application Examples 	
5.	Web Development	<ol style="list-style-type: none"> 1. Client-side programming 2. HTML programming 3. Java script programming 4. Web system architecture 5. PHP programming 	
6.	Data Science	<ol style="list-style-type: none"> 1. Introduction to Data Science Fundamentals 2. Overview of Machine Learning 3. Overview of Statistical Learning 4. Supervised Vs Unsupervised Learning 5. Regression Vs Classification 6. Regression and Classification Models (Linear Regression, Logistic Regression, Naive Bayes, K-Nearest Neighbour) 7. Tree based Models (Random Forest) 8. Unsupervised Learning models 9. Data Visualization 10. Data Processing / Engineering 11. Implementing Machine Learning Models 12. Evaluating Learning Models 13. A minimum of 5-10 case studies 	
7.	Fiduciary Capital – Project Management and Finance	<ol style="list-style-type: none"> 1. Basic Principles of Accounting - Bookkeeping, how to read P&L statement, Balance Sheet, Cashflows, Etc. 2. Microeconomic and Macroeconomic Factors - Fiscal Policies, Monetary Policies, Balance of Payments of a Country, what is GDP, Indian Budget, etc. 	

Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

		<p>3. Financial Statement Analysis - How to calculate the ratios of a company, Operating Statements, Accounting Statements, Management Statements, Company Cashflows, Money Measurement, going concern, Cost, etc.</p> <p>4. Risk Management & Corporate Finance - Understanding and calculating various risks, micro and macro risks, Risk Treatment, risk avoidance, Corporate Governance, Capital Finance, Capital Structure, Shareholders, Project Finance.</p>	
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Registration fees for our Institute students is 300 rupees and for outside students 600 rupees.
Please permit this such that I can plan accordingly.

Praful Patil

Prafulla Patil,
Coordinator, IIIC

To
Registration / f(00)
- Approved
[Signature]
20/5/23.



Report on Web Development Internship

The Web Development Internship was conducted from 12/06/2023-23/06/2023. The students from different department of the Vidyavardhini's College of Engineering & Technology along with students from the outside institutes also participated in the internship. The internship covered many technologies such as HTML, Java script, XML, Servlet, JSP, PHP which are useful for the development of the web site.

A total number of 37 students participated in the internship.

Date: 12th June, 2023

Time: 10 AM to 11:30,

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The session began with a brief introduction of the students

The key points discussed in the session were:

1. Introduction to HTML programming
2. World wide web concept
3. Various HTML elements
4. Discussion on a website developed by the industry

The workshop was attended by 30 students

Date: 12th June, 2023

Time: 2 PM to 3:30PM

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Introduction to cascading style sheet
2. Types of cascading style sheet
3. Application of cascading style sheet

The workshop was attended by 28 students

Date: 13th June, 2023

Time: 10 AM to 11:30,

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:



1. Introduction to HTML Form
2. Attributes of Form elements
3. Web page design using form

The workshop was attended by 27 students

Date: 13th June, 2023

Time: 2 PM to 3:30PM

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Various types of media
2. Elements to include media on the web page
3. Discussion on sample website

The workshop was attended by 27 students

Date: 14th June, 2023

Time: 10 AM to 11:30,

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Introduction to XML concept
2. Application of the XML concept in maintaining data
3. XML schema and DTD

The workshop was attended by 31 students

Date: 14th June, 2023

Time: 2 PM to 3:30PM

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Accessing XML data on the web page
2. Demonstration of the concept of accessing XML data



The workshop was attended by 30 students

Date: 15th June, 2023

Time: 10 AM to 11:30AM

Speaker: Mrs. Aarti Puthran, Assistant Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Basic concepts of java script
2. Demonstration of java script concept
3. Practice problems

The workshop was attended by 32 students

Date: 15th June, 2023

Time: 2 PM to 3:30PM

Speaker: Mrs. Aarti Puthran, Assistant Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Basic concepts of java script control structures
2. Demonstration of java script control structures

The workshop was attended by 32 students

Date: 16th June, 2023

Time: 10AM to 11:30AM

Speaker: Mrs. Aarti Puthran, Assistant Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Java Script Function
2. Practice problem
3. Application of Java script function in web development

The session was attended by 33 students



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year : 2022-23

Date: 16th June, 2023

Time: 2PM to 3:30PM

Speaker: Mrs. Aarti Puthran, Assistant Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Java Script object
2. Java script form validation
3. Application of Java script object in web development

The session was attended by 32 students

Date: 19th June, 2023

Time: 10 AM to 11:30,

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The session began with a brief introduction of the students

The key points discussed in the session were:

1. Introduction to HTML DOM
2. Application of HTML DOM

The session was attended by 33 students

Date: 19th June, 2023

Time: 2 PM to 3:30PM

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. DOM events
2. Making use of DOM events in handling web document

The session was attended by 21 students

Date: 20th June, 2023

Time: 10 AM to 11:30,

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET



The session began with a brief introduction of the students

The key points discussed in the session were:

1. Introduction to Dynamic programming
3. Basic concept of servlet
4. Demonstration of servlet using netbeans

The session was attended by 22 students

Date: 20th June, 2023

Time: 2 PM to 3:30PM

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

1. Cookies concept
2. Creation of cookies

The session was attended by 05 students

Date: 21st June, 2023

Time: 10 AM to 11:30,

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The session began with a brief introduction of the students

The key points discussed in the session were:

1. Introduction to JSP programming
2. JSP scripting elements

The session was attended by 26 students

Date: 21st June, 2023

Time: 2 PM to 3:30PM

Speaker: Dr. Dinesh Patil, Associate Professor, Computer Engineering Dept, VCET

The key points discussed in the session were:

3. JSP implicit object



4. Making use of JSP to develop web page

The session was attended by 26 students

Date: 22nd June, 2023

Time: 10 AM to 11:30,

Speaker: Mr, Ahmed Shaikh, Founder, Rigel InfoTech, Mumbai

The session began with a brief introduction of the students

The key points discussed in the session were:

1. Setting up of PHP environment
2. Creating and executing PHP files

The session was attended by 32 students

Date: 22nd June, 2023

Time: 2 PM to 3:30PM

Speaker: Mr, Ahmed Shaikh, Founder, Rigel InfoTech, Mumbai

The key points discussed in the session were:

3. Integration of HTML in PHP
4. PHP operation

The session was attended by 32 students

Date: 23rd June, 2023

Time: 10 AM to 11:30,

Speaker: Mr, Ahmed Shaikh, Founder, Rigel InfoTech, Mumbai

The key points discussed in the session were:

1. Working with Forms using PHP
2. CRUD operation using PHP and MySQL

The session was attended by 31 students



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year : 2022-23

Date: 23rd June, 2023

Time: 2 PM to 3:30PM

Speaker: Mr, Ahmed Shaikh, Founder, Rigel InfoTech, Mumbai

The key points discussed in the session were:

1. Designing of Web page using PHP
2. Valedictory function

The session was attended by 31 students

Prepared By

Dr. Dinesh N. Patil

Associate Professor

Dept. of Computer Engineering

VCET, Vasai



Hands On Session



Certificate Distribution



Felicitaton Of Guest



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Web Development Internship


In Association with IIC, VCET, Vasai and Rigel InfoTech, Mumbai

Schedule

Date	Session	Topic	Speaker
12/06/2023	First	Introduction to HTML	Dr. Dinesh N. Patil Associate Professor, VCET, Vasai
	Second	Practice/Project session	
	Third	Cascading Style Sheet	
	Fourth	Practice/Project session	
13/06/2023	First	Designing a Form	Dr. Dinesh N. Patil Associate Professor, VCET, Vasai
	Second	Practice/Project session	
	Third	Embedding Media in Web page	
	Fourth	Practice/Project session	
14/06/2023	First	Introduction to XML	Dr. Dinesh N. Patil Associate Professor, VCET, Vasai
	Second	Practice/Project session	
	Third	Displaying XML data onto Web Page	
	Fourth	Practice/Project session	
15/06/2023	First	Introduction to Javascript	Mrs. Aarti Puthran Assistant Professor, VCET, Vasai
	Second	Practice/Project session	
	Third	Javascript Control Structures	
	Fourth	Practice/Project session	
16/06/2023	First	Javascript Functions	Mrs. Aarti Puthran Assistant Professor, VCET, Vasai
	Second	Practice/Project session	
	Third	Javascript Objects and Form validation	
	Fourth	Practice/Project session	
19/06/2023	First	HTML DOM	Dr. Dinesh N. Patil
	Second	Practice/Project session	
	Third	DOM Events	
	Fourth	Practice/Project session	
20/06/2023	First	Introduction to Servlet	Dr. Dinesh N. Patil
	Second	Practice/Project session	
	Third	Understanding Cookies	
	Fourth	Practice/Project session	
21/06/2023	First	Introduction to JSP	Dr. Dinesh N. Patil
	Second	Practice/Project session	
	Third	Web Page Development Using JSP	
	Fourth	Practice/Project session	
22/06/2023	First	Setting Up the PHP environment, Creating and Executing PHP Files	Mr. Ahmed Shaikh Founder, Rigel InfoTech, Mumbai
	Second	Practice/Project session	
	Third	Integration of HTML in PHP, PHP operation	
	Fourth	Practice/Project session	
23/06/2023	First	Working with Forms, Validations, Extraction of Data from Form, Sending Data to other Web pages	Mr. Ahmed Shaikh Founder, Rigel InfoTech, Mumbai
	Second	Practice/Project session	
	Third	CRUD operations using PHP and MySQL	
	Fourth	Practice/Project session	

Session Timing: First 10:00 – 11:30AM, Second 11:45 – 01:15PM, Third 2:00 – 3:30PM, Fourth 3:45 – 5:15PM

Venue: Lab 2, Lab 3, Room No.201, Second Floor, Department of Computer Engineering, VCET, Vasai


Internship Coordinator



Report on Student Development Program on

Android Application Development using Kotlin

Two Weeks (10 Days) Student Development Program on Android Application Development using Kotlin was organised by Department of Computer Engineering & Industry Institute Interaction Cell of Vidyavardhini's College of Engineering and Technology for the Computer Engineering, Information Technology and Electronics and Telecommunication Engineering students of the college from 18th July 2022 to 29th July 2022. The sessions were conducted by Prof. Sneha Mhatre, Assistant Professor, Department of Computer Engineering, Vidyavardhini's College of Engineering and Technology.

The details of the Student Development Program were as under

Day 1 (18/7/22) 2:00 pm to 5:00pm:

Introduction to Android: Overview of Android and Android SDK, History of Android and Android features

Android Architecture overview: Introduction to OS layers, Linux kernel, Libraries, Android Runtime and Application framework

Day 2 (19/7/22) 2:00 pm to 5:00pm:

Overview of Android App using Kotlin, Installation of Android Studio

Day 3 (20/7/22) 2:00 pm to 5:00pm:

User Interface: View Hierarchy, View Groups and Layouts, UI Events & Events Listener, Building Menus, Notifying users, Creating dialogs, Graphics & Animations and Applying styles and themes to UI.

Day 4 (21/7/22) 2:00 pm to 5:00pm:

Getting Started with Hello World App: Creating a Registration Form

Day 5 (22/7/22) 2:00 pm to 5:00pm:

Adding Radio Button, Spinner and Images in App

Day 6 (25/7/22) 2:00 pm to 5:00pm:



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering

Creating a Search App and URL request

Day 7 (26/7/22) 2:00 pm to 5:00pm:

Display Search Result, Playing Video using YouTube API

Day 8 (27/7/22) 2:00 pm to 5:00pm:

Introduction to Navigation Component, Architecture Component

Day 9 (28/7/22) 2:00 pm to 5:00pm:

Advanced Navigation Application Examples


Day 10 (29/7/22) 2:00 pm to 5:00pm:

Description of the Mini-Project to be submitted by the students

On all the days 1 n half hour were dedicated for the students for practice. A total of 3 Quizzes and 5 Assignments were given to the participants to gauge their understanding about the topics covered on that particular day.

A total of 189 students took part in this SDP, the name of the students has been attached.

Prepared by

Mrs.Sneha R. Mhatre 



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering



Conduction of Session|

17_Student
Development
Program on
Android application
development using
Kotlin

2, 2022

To,
The Principal,
VCET, Vasai

Subject: Proposal for Student Development Program for SE, TE and BE students of Computer Engineering, Information Technology, Computer Science Engineering and Artificial Intelligence

Respected Sir,

For Second year student SDP we will run InfyTQ (Infosys Platform) course on Programming using Java from fundamental courses and for Third year students we will conduct 1. Android Application Development and 2. Chatbot Development using Python and Dialog Flow. Details are as follows,

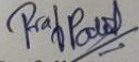
Sr. No.	Students	SDP Program	Time	Duration	Departments	Faculty
1	SE	Programing using Java - fundamental courses on InfyTQ portal	9 am to 12 pm	18 th July 2022 to 29 th July 2022	CS, IT, CSE and AI&DS	Only Supervisors are needed. Note After this schedule course will be continue till semester end. For that please reserve one slot of three hours every week in SE timetable,
2.	TE	Android Application Development	2 pm to 5 pm		CS, IT	Mrs. Sneha Mhatre
		Chatbot Development using Python and Dialog Flow	2 pm to 5 pm		AI&DS	Dr. Tatwadarshi Nagarhalli
3	BE	Refresher Course using C/C++/Java/Data Structure & RDBMS	2 pm to 5 pm	All Branches	Mr. Chandan Kolavankar Mr. Vikrant Agaskar Mr. Sainath Patil Mr. Yogesh Pingale Mrs. Swati Verma	

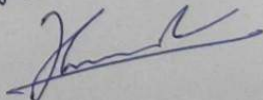
Budget to run above program

Sr. No.	Students	Amount	Total
1.	SE	Nil	Nil
2.	TE	(30 X 200) + (30 X 200)	12000 Rupees
3.	BE	30 X 400	12000 Rupees

Please permit us to run the program and sanction above amount.

Yours sincerely,


Prafulla Patil,
IIC Coordinator

Approved




**Report on Student Development Program on
Chatbot Development using Python and DialogFlow**

18_Student
Development Program
on Chatbot Development
using Python and
DialogFlow

Two Weeks (10 Days) Student Development Program on 'Chatbot Development and DialogFlow' was organised by Department of Computer Engineering & Industry Institute Interaction Cell of Vidyavardhini's College of Engineering and Technology for the Computer Science and Engineering (Data Science), Artificial Intelligence & Data Science and Electronics and Telecommunication students of the college from 18th July 2022 to 29th July 2022. The sessions were conducted by Dr. Tatwadarshi P. Nagarhalli, Associate Professor, Department of Computer Engineering, Vidyavardhini's College of Engineering and Technology.

The details of the Internship was as under

Day 1 (18/7/22) 2:00 pm to 5:00pm:

Introduction to Chatbot: Overview and importance of Chatbot and the technologies involved.

Day 2 (19/7/22) 2:00 pm to 5:00pm:

Overview of Python for chatbot development.

Day 3 (20/7/22) 2:00 pm to 5:00pm:

Overview of Regular Expression and Chatbot development using RE.

Day 4 (21/7/22) 2:00 pm to 5:00pm:

Hands on chatbot development using RE.

Day 5 (22/7/22) 2:00 pm to 5:00pm:

Overview of Chatbot using Chatterbot package.

Day 6 (25/7/22) 2:00 pm to 5:00pm:

Chatbot development using Chatterbot package

Day 7 (26/7/22) 2:00 pm to 5:00pm:

Chatbot development using Chatterbot package

Day 8 (27/7/22) 2:00 pm to 5:00pm:



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering

Introduction to DialogFlow and its components

Day 9 (28/7/22) 2:00 pm to 5:00pm:

Chatbot Development using DialogFlow

Day 10 (29/7/22) 2:00 pm to 5:00pm:

Chatbot Development using DialogFlow

On all the days 1 n half hour were dedicated for the students for practice. 3 Chatbot development assignments were given to the participants to gauge their understanding about the topics covered on that particular day.

A total of 82 students took part in this SDP, the name of the students has been attached.

Prepared by

Dr. Tatwadarshi P. Nagarhalli



Vidyavardhini's College of Engineering & Technology
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Conduction of Session



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Hands-on Session



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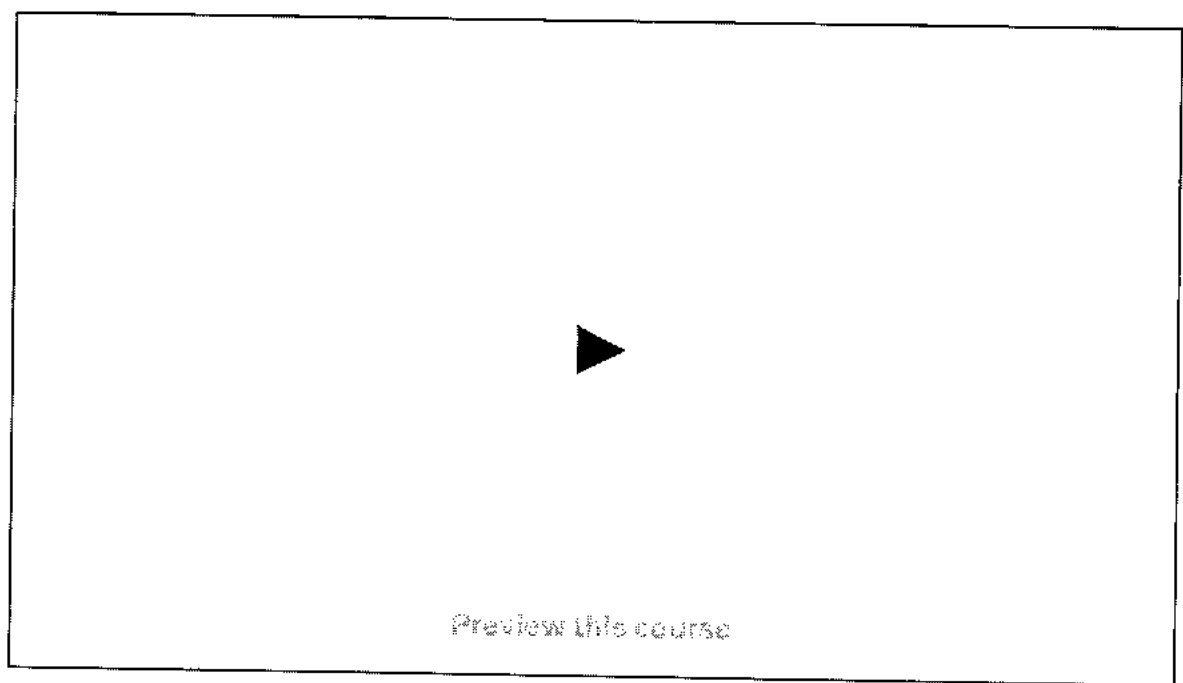
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01:04

^ **Installing and Exploring Node.js**

5 lectures • 48min

▶ [Section Intro: Installing and Exploring Node.js](#) ▾

[Preview](#) 00:56

▶ [Installing Node.js and Visual Studio Code](#) ▾

[Preview](#) 08:51

▶ [What is Node.js?](#) ▾

[Preview](#) 15:31

▶ [Why Should I Use Node.js?](#) ▾

[Preview](#) 16:24

▶ [Your First Node.js Script](#) ▾

[Preview](#) 06:19

^ **Node.js Module System (Notes App)**

6 lectures • 1hr 14min

▶ [Section Intro: Node.js Module System](#) ▾

[Preview](#) 01:03

▶ [Importing Node.js Core Modules](#) ▾

[Preview](#) 16:28

▶ [Importing Your Own Files](#) ▾

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▶ Argument Parsing with Yargs: Part II	▼	11:21
▶ Storing Data with JSON	▼	17:51
▶ Adding a Note	▼	18:33
▶ Removing a Note	▼	14:59
▶ ES6 Aside: Arrow Functions	▼	14:14
▶ Refactoring to Use Arrow Functions	▼	14:31
▶ Listing Notes	▼	05:30
▶ Reading a Note	▼	11:50
^ Debugging Node.js (Notes Apps)		3 lectures • 24min
▶ Section Intro: Debugging Node.js	▼	01:32
▶ Debugging Node.js	▼	17:11
▶ Error Messages	▼	04:53

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- A computer on which you can install software (Windows, MacOS, or Linux)
- A basic understanding of JavaScript (variables, functions, objects, arrays, if statements)

Description

Have you tried to learn Node before? You start a new course, and the instructor has you installing a bunch of libraries before you even know what Node is or how it works. You eventually get stuck and reach out to the instructor, but you get no reply. You then close the course and never open it again.

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The Complete Node.js Developer Course covers the fundamentals of Node before diving deep into great tools like Express, Mongoose, and MongoDB.

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From the very start you'll be programming every project and working through challenges that I've designed to reinforce what you've learned. This will give you the hands-on experience necessary to be able to create and launch your own project once you're done.

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"Any questions people seem to have are answered swiftly, clearly, and often with examples posted on GitHub. Even when the questions asked are out of the scope of the course Andrew seems to come up trumps." - Adam Tait

"This is amazing. What's even better is the instructor answered all the questions I asked." - Pak Chu

"The real value in this course is Andrew; he is not just a great teacher, but also he's quick to answer questions and provide feedback." - Nick Hester

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Anupam K.

10 courses

3 reviews

★★★★★ 3 years ago

I am a 2 year experienced PHP developer with expertise in frameworks like Laravel, CodeIgniter, Zend, etc. I was asked to build an application in Node. Initially, I had no idea about it. I found Andrew's course and started it. I surely can say he is the best instructor I have ever found. Now I proudly can say, I am a PHP developer as well as Node.js developer. Thank you so much, Andrew. I now can build applications in Node and looking ahead to make my carrier more extensive.

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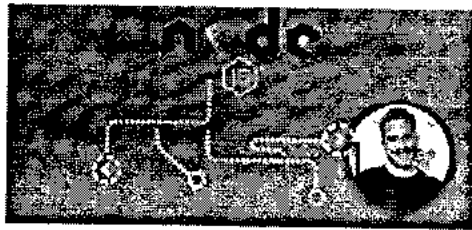
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Rob Percival

Web Developer And Teacher



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After building websites for friends and family for fun, I soon learned that web development was a very lucrative career choice. I gave up my successful (and sometimes stressful) job as a teacher to work part time and today, couldn't be happier.

I'm passionate about teaching kids to code, so every summer I run Code School in the beautiful city of Cambridge. I also run the popular web hosting and design service, Eco Web Hosting which leaves me free to share my secrets with people like you.

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just very helpful and teacher must be a

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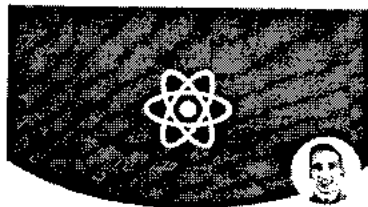
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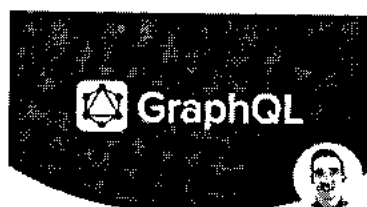
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Andrew Mead

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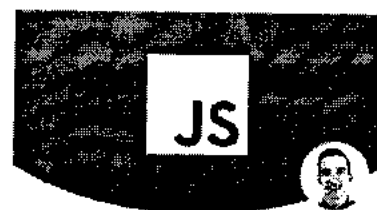
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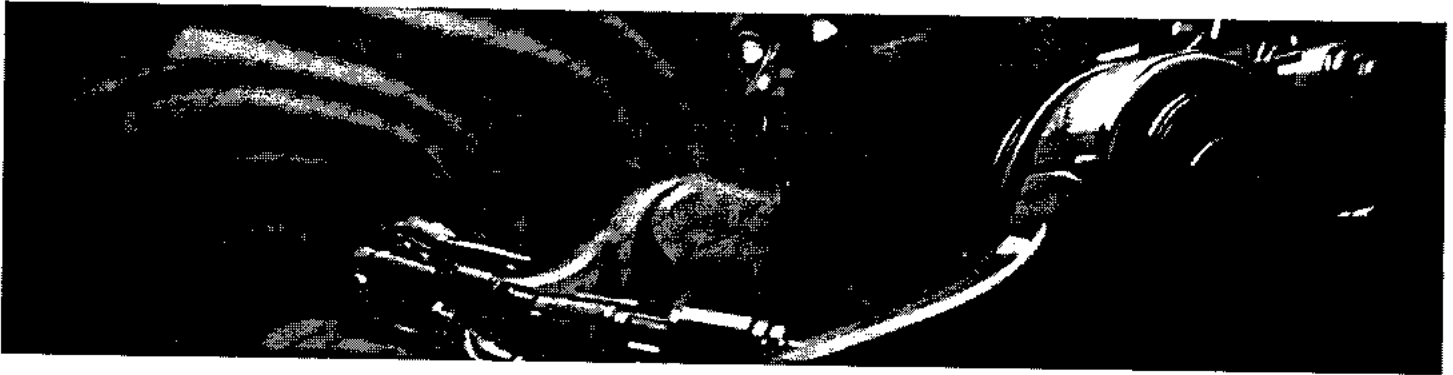
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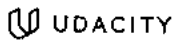
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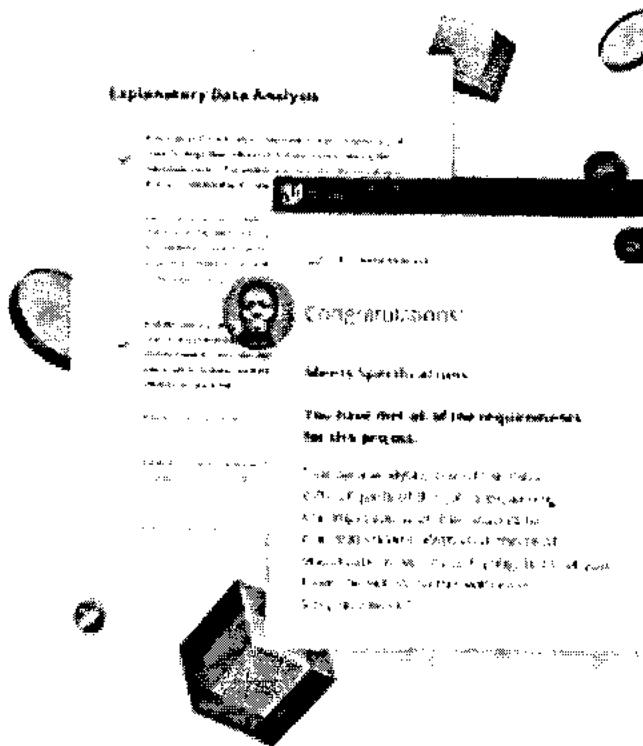


As a data scientist at Looplist, Juno built neural networks to analyze and categorize product images, a recommendation system to personalize shopping experiences for each user, and tools to generate insight into user behavior.

Andrew has a engineering d Yale, and has data science s build a jewelr from the grou has additiona courses for U Self-Driving Ci Nanodegree p

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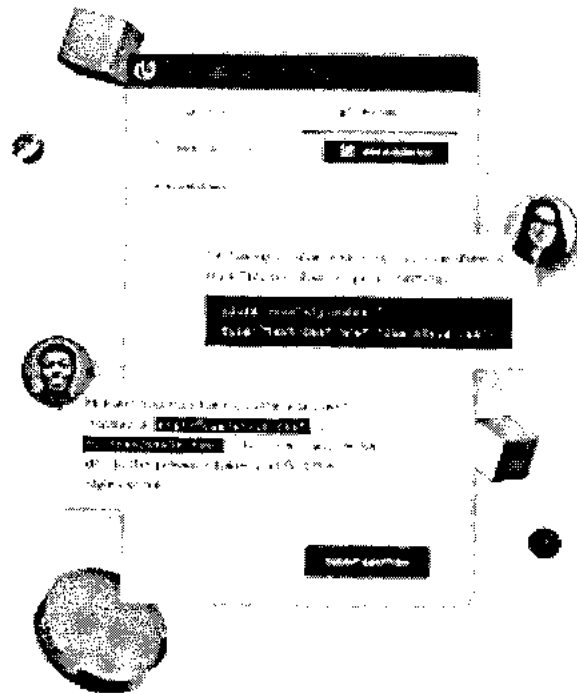
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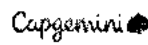
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- CREATE, ALTER, DROP and load tables
- use string patterns and ranges; ORDER and GROUP result sets, and built-in database functions
- build sub-queries and query data from multiple tables
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Intermediate SQL

Module 3 • 5 hours to complete



Accessing Databases using Python

Module 4 • 4 hours to complete



Course Assignment

Module 5 • 4 hours to complete



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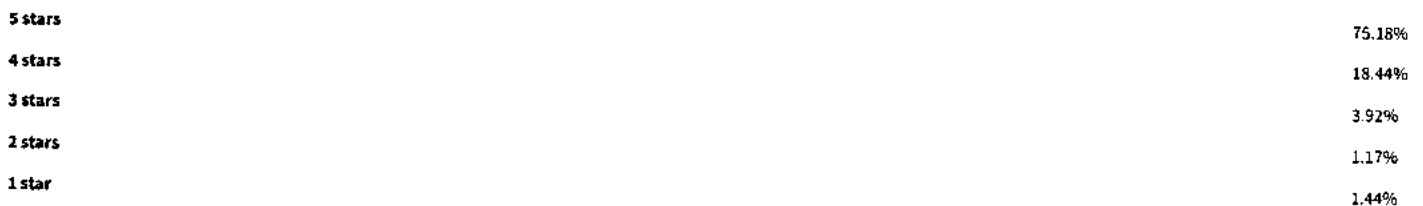
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AS

★ 5 • Reviewed on Sep 14, 2022

11/8/23, 1:18 PM

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This course really helped me to use database in different formats and updated environment. I had the knowledge of SQL but using Db2 and connecting using SQL magic helped me to enhance my knowledge. **coursera**

IA

★ 5 · Reviewed on Feb 22, 2021

The course served as a good SQL refresher and I love the that I get to run all the exercise and assignment on IBM cloud. That really saved me a lot of stress. Good foundational course overall.

MM

★ 4 · Reviewed on Oct 7, 2023

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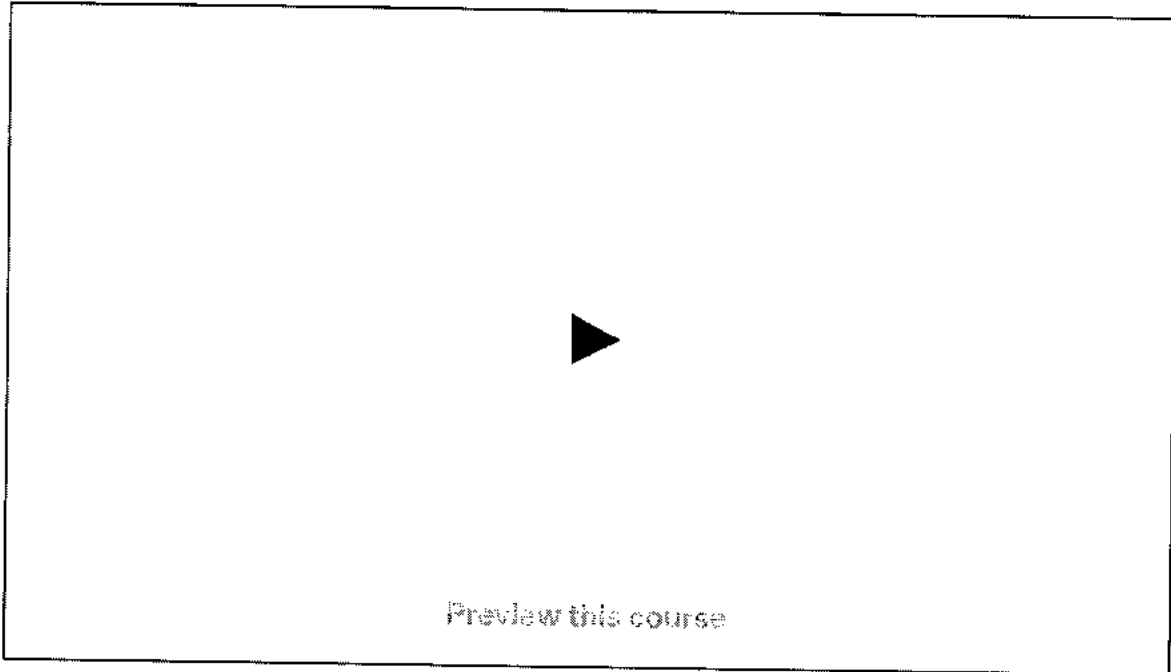
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Created by Imran Teli

Last updated 10/2023

English

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∨	Prerequisites Info & Setup	8 lectures • 58min
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Requirements

- Basic Computer Knowledge

Description

Decoding DevOps course is for anybody who wants to get started with DevOps.

As there are many tools & technologies in DevOps, it has become difficult for people to choose the right technologies.

This course starts from very basics of command line, hands on demonstrations of many tools & technologies.

Also most importantly it will show you how various technologies in DevOps work together by setting up your own projects.

Step 1

- Basics of Linux
- Server Management in Linux
- Vagrant
- Basics of networking
- **Project**
 - Vprofile **Project** Intro & Setup on VM's

Step 2

- Bash Scripting
- Basics of scripting

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- AWS Cloud For Project Set Up Lift & Shift
- Re-Architecting Web App on AWS Cloud [PAAS & SAAS]

Step 4

- Version control system = Git & GitHub
- Build Tools | Build & Test Java Code = Maven
- Continuous Integration Intro
- Jenkins
 - Jenkins as a Build Server
 - Jenkins Jobs | Build , Test, Deploy, Notify
 - Jenkins Master/Slave, Nexus, Sonarqube
 - Jenkins CI Pipeline
 - Jenkins Administration
- **Project**
 - Continuous Integration Using Jenkins, Nexus, Sonarqube & Slack

Step 5

- Python Scripting
- Basics of python programming
- vars, datatypes, conditions, loops, function, modules etc
- Pythons for automating OS tasks

Step 6

- Ansible Intro
- Ad Hoc commands
- Modules

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- Log management and custom metrics
- **Project**
 - Vprofile on Beanstalk & RDS
 - Code Commit, Code Build & Code Pipeline
 - **CI & CD on AWS** Cloud for **Vprofile Project**
 - Beanstalk, RDS, CodePipeline etc

Step 8

- Docker Intro
- Understanding and Implementing Containers
 - Volumes, Network, logs etc
- Building Images for Vprofile project
- Docker compose to run vprofile multi containers
- Kubernetes Intro
- Kubernetes setup for production Env
- Kubernetes objects
 - Pods, Services, Controllers, Deployment
 - Replication, Autoscaling, Resource quotas, secret, configmap, namespace.
- **Project**
 - Vprofile **Project** deployment on **Kubernetes**

Step 9


- Terraform for AWS Cloud automation
- Cloudformation for AWS Cloud automation


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6.5 total hours • Updated 9/2023
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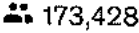


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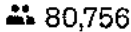


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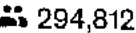


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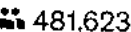


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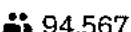


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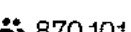

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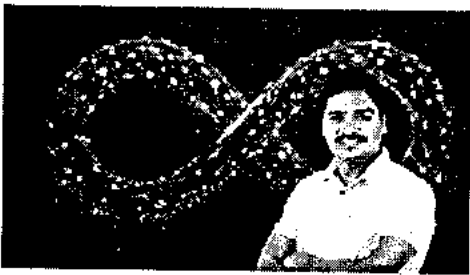
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NT **Natnael T.**
 ★★★★★ a week ago

An interesting and well-organized course that shows tools and techniques to use tools without remembering every command with awesome projects to boost confidence in the working area.

Helpful?

KD **Krunal Ravindra D.**
 ★★★★★ 3 weeks ago

This course is an excellent choice for beginners looking to start their DevOps journey from the ground up. I have a request: could you please incorporate GitOps concepts, such as ArgoCD, int...

Helpful?

MA **Muhammad A.**
 ★★★★★ a month ago

This course covered almost everything. In the last project, you give a bit of tutorial of HELM, i felt like i was totally lost there. I think there should be a section about HELM. I'll be going...

Helpful?

RG **Radostin G.**
 ★★★★★ 2 months ago

This course can give you all of the needed information of how to become DevOps professional. There are a lot of trainings and tolls that are used within the course, which are helping the...

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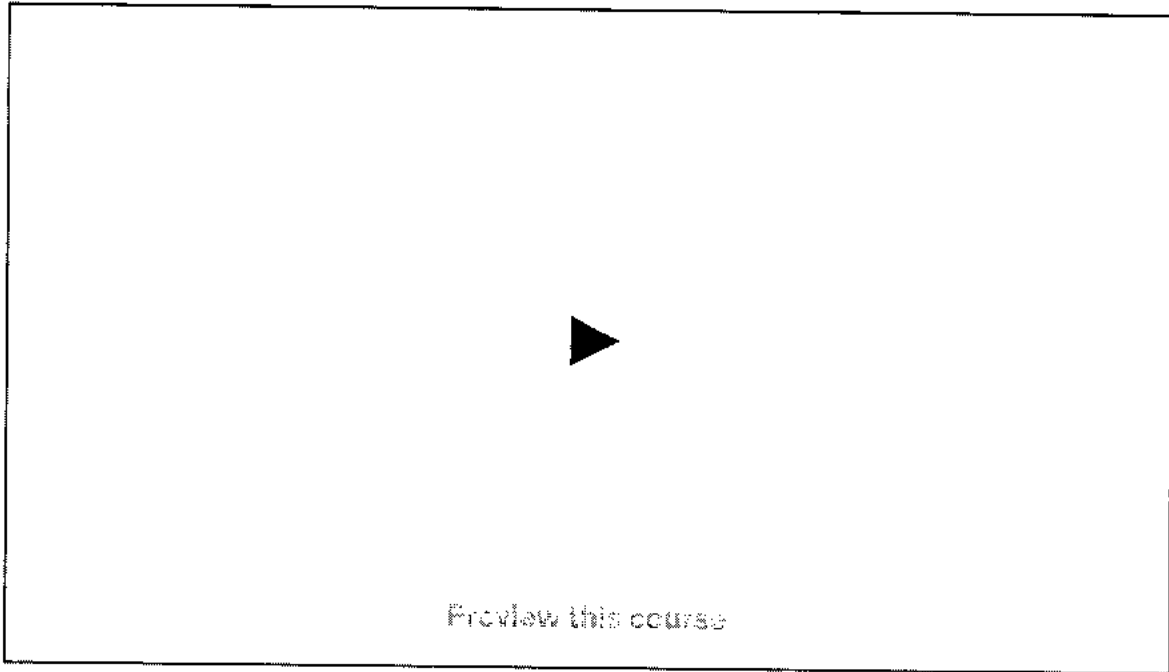
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English

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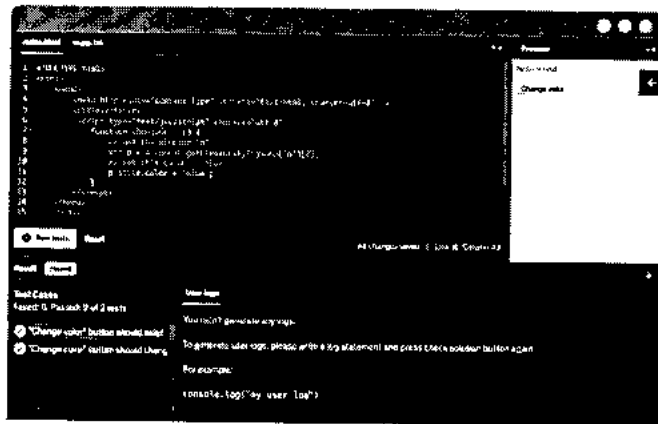
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📁 Welcome Challenge!

02:39

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36 more sections

Requirements

- Just some high school mathematics level.

Description

Interested in the field of Machine Learning? Then this course is for you!

This course has been designed by a **Data Scientist and a Machine Learning expert** so that we can share our knowledge and help you learn complex theory, algorithms, and coding libraries in

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Each section inside each part is independent. So you can either take the whole course from start to finish or you can jump right into any specific section and **learn what you need for your career right now**.

Moreover, the course is packed with practical exercises that are based on **real-life case studies**. So not only will you learn the theory, but you will also get lots of **hands-on practice** building your own models.

And as a bonus, this course **includes both Python and R code templates** which you can download and use on your own projects.

Who this course is for:

- Anyone interested in Machine Learning.
- Students who have at least high school knowledge in math and who want to start learning Machine Learning.
- Any intermediate level people who know the basics of machine learning, including the classical algorithms like linear regression or logistic regression, but who want to learn more about it and explore all the different fields of Machine Learning.
- Any people who are not that comfortable with coding but who are interested in Machine Learning and want to apply it easily on datasets.

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★★★★★ 3 years ago

This is an amazing course for the beginners who want to understand about everything in machine learning. Thank you to the instructors (Hadelin de Ponteves and Kirill Eremenko) for explained it clearly and easy to understand. I hope this knowledge can help me for developing my start-up, advancing technology, and giving benefits to others.

Was this review helpful?



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
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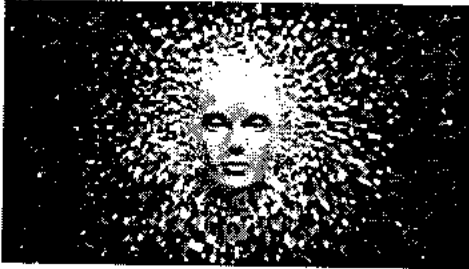
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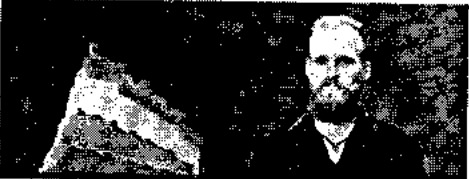
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Instructors

Kirill Eremenko

Data Scientist



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My name is Kirill Eremenko and I am super-psyched that you are reading this!

Professionally, I come from the Data Science consulting space with experience in finance, retail, transport and other industries. I was trained by the best analytics mentors at Deloitte Australia and since starting on UdeMy I have passed on my knowledge to thousands of aspiring data scientists.

From my courses you will straight away notice how I combine my real-life experience and academic background in Physics and Mathematics to deliver professional step-by-step **show more** teaching in the space of Data Science. One of the strongest sides of my teaching style is that I focus on intuitive explanations, so you can be sure that you will truly understand even the most complex topics.

To sum up, I am absolutely and utterly passionate about Data Science and I am looking forward to sharing my passion and knowledge with you!

Hadelin de Ponteves

Passionate AI Instructor

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course is a nice surface level intro to the subject matter. It however lacks in much needed depth in some areas such as the intuition behind certain algorithms. Its more of "Look what M...

Helpful?

The instructor does a great job covering all the topics however I did feel that it was more like a summary. Nothing wrong with it, This class is a great overview, and the way it is organized...

Helpful?

DA **dolphin consulting A.** ★★★★★ 2 months ago

A lot of great knowledge. I would only sometimes prefer to be more straightforward. I believe, the whole course could take half time without any important knowledge to be lost....

Helpful?

CB **Cameron B.** ★★★★★ 2 months ago

Overall, absolutely amazing course Only recommendation would be to update some minor inconsistencies with versions of software's that were made at the time of this course and current...

Helpful?

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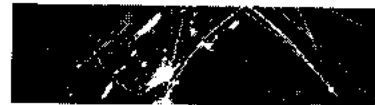
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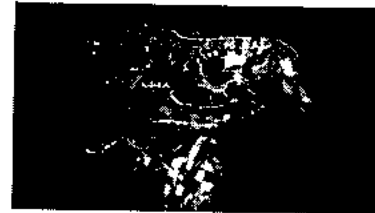
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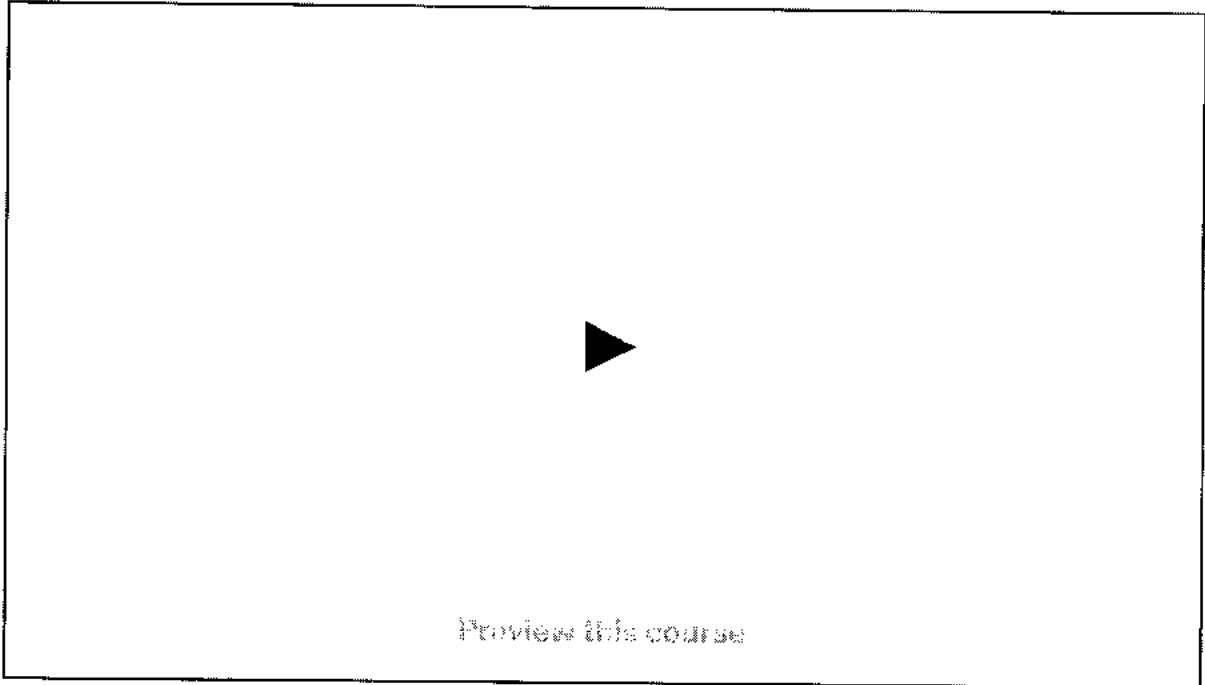
24_The complete web Development Bootcamp



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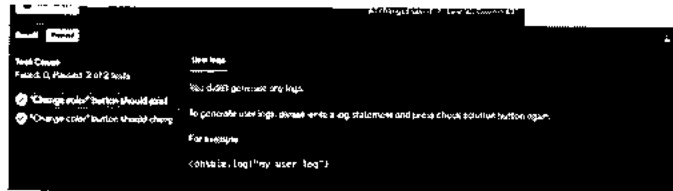
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Course content

44 sections • 380 lectures • 62h 49m total length

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^ Front-End Web Development

9 lectures • 37min

▶ <u>What You'll Get in This Course</u>	Preview	03:08
📄 <u>Download the Course Syllabus</u>	Preview	00:12
📄 Download the 12 Rules to Learn to Code eBook [Latest Edition]		00:42
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▶ <u>How Does the Internet Actually Work?</u>	Preview	05:27
▶ <u>How Do Websites Actually Work?</u>	Preview	08:22
▶ How to Get the Most Out of the Course		09:33
▶ How to Get Help When You're Stuck		06:39
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^ Introduction to HTML

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code and become a full-stack web developer. With 150,000+ ratings and a 4.8 average, my Web Development course is one of the **HIGHEST RATED** courses in the history of Udem!

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- The curriculum was developed over a period of **four years**, with comprehensive student testing and feedback.
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We'll take you **step-by-step** through engaging video tutorials and teach you everything you need to know to succeed as a web developer.

The course includes over **62 hours** of HD video tutorials and builds your programming knowledge while making real-world websites and web apps.

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- **HTML 5**
- **CSS 3**

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- **APIs**
- Databases
- SQL
- **PostgreSQL**
- Authentication
- Firebase
- **React.js**
- React Hooks
- Web Design
- Deployment with GitHub Pages
- Web3 Development on the Internet Computer
- Blockchain technology
- Token contract development
- NFT minting, buying and selling logic

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put together the pieces of web development this is what you're looking for. Angela explains in an amazing way by **creating projects** all the way during this course, explaining the concepts in real practice. Thank you very much, Angela. I will always consider you my mentor. Look forward to taking more courses with you." - Moises Dionisio Cruz

"An amazing course, perfect for absolute beginners at the start of their coding journey! Angela is an amazing tutor and can explain in the most simple and comprehensible way even complex coding notions. **Learning web development cannot get any more fun!**" - Zoe Moysoglou

"It's a different approach to teaching Web Development. I like that you are **given everything possible to succeed** from the onset." - Ronick Thomas

The tutor is simply AMAZING, by far the best tutor I have ever had. I would give her 10 stars out of 5. She is not just punching the code and talking to herself, but she is actually explaining things. She keeps on giving really useful hints and she will give you a great load of other references. I always knew what I was doing and why I was doing it. All the extra challenges have just made me remember and understand things better. - Peter Dlugos

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25_The complete web developer

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▶ How To Ask Great Questions		04:38
▶ Frequently Asked Questions		01:32
▼ HTML 5		33 lectures • 1hr 54min
▼ CSS 3		36 lectures • 5hr 35min
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▼ jQuery		16 lectures • 1hr 41min
▼ Bootstrap 5		11 lectures • 1hr 40min
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★★★★★ *'Lots of content and a great way to get an understanding of various coding methods ... I definitely recommend.'* - Ian B.

★★★★★ *'The course is really helping with some troubling spots I have had with my coding journey.'* - Corey H.

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You'll get access to 14 chapters that dig deep into the nitty gritty of building successful websites. Each chapter is supported with intelligent video tutorials and practical coding challenges.

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- Once you've got that locked down, you'll master how to build your own responsive websites using more advanced techniques such as jQuery PHP, MySQL and Twitter Bootstrap.
- By then you'll be developing blogs and sites with WordPress, and learning smart ways to add dynamic content with using APIs.
- Other course sections let you dive in to Python and build an app landing page, learn how to promote your website and boost your success by mastering SEO, and get to grips with Linux Command Line.
- In each section test your new skills with quizzes, challenges and big project builds and – if you ever get stuck – we're in the Q&A forum ready to answer your questions!

★★★★★ *'I loved this course. Rob explains everything so well. It's easy to understand. You will get the most of this course as long as you're applying immediately as you're learning. His ebook was the perfect bonus, amazing content inside. Gives you the confidence boost needed when ...'*

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The course has been created with a lot of thought and planning. Each topic related to the one before. Rob not only teaches he shows on this course how to google the information needed, which I've been doing and I've learnt a lot from this method of teaching. I've nearly finished the course and I feel very confident to send my CV to potential employers. Thanks for an excellent course. Rayaa

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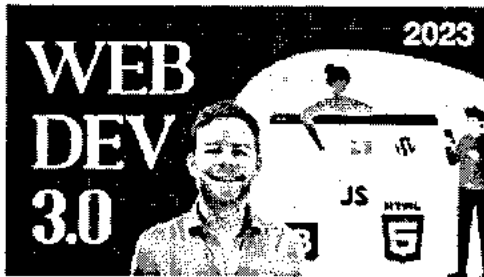
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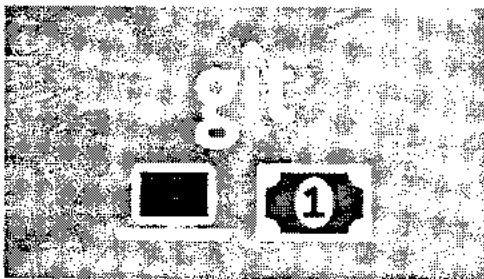
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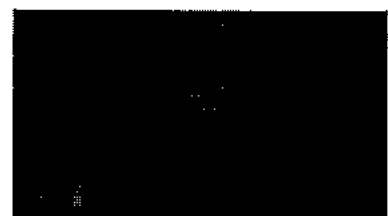
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bit of coding geek.

After building websites for friends and family for fun, I soon learned that web development was a very lucrative career choice. I gave up my successful (and sometimes stressful) job as a teacher to work part time and today, couldn't be happier.

I'm passionate about teaching kids to code, so every summer I run Code School in the beautiful city of Cambridge. I also run the popular web hosting and design service, Eco Web Hosting which leaves me free to share my secrets with people like you.

You wouldn't believe the freedom that being a web developer offers. Sign up and find out for yourself why so many people are taking and recommending this course. I genuinely believe it's the best on the market and if you don't agree, I'll happily refund your money.

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- Anyone who wants to generate new income streams
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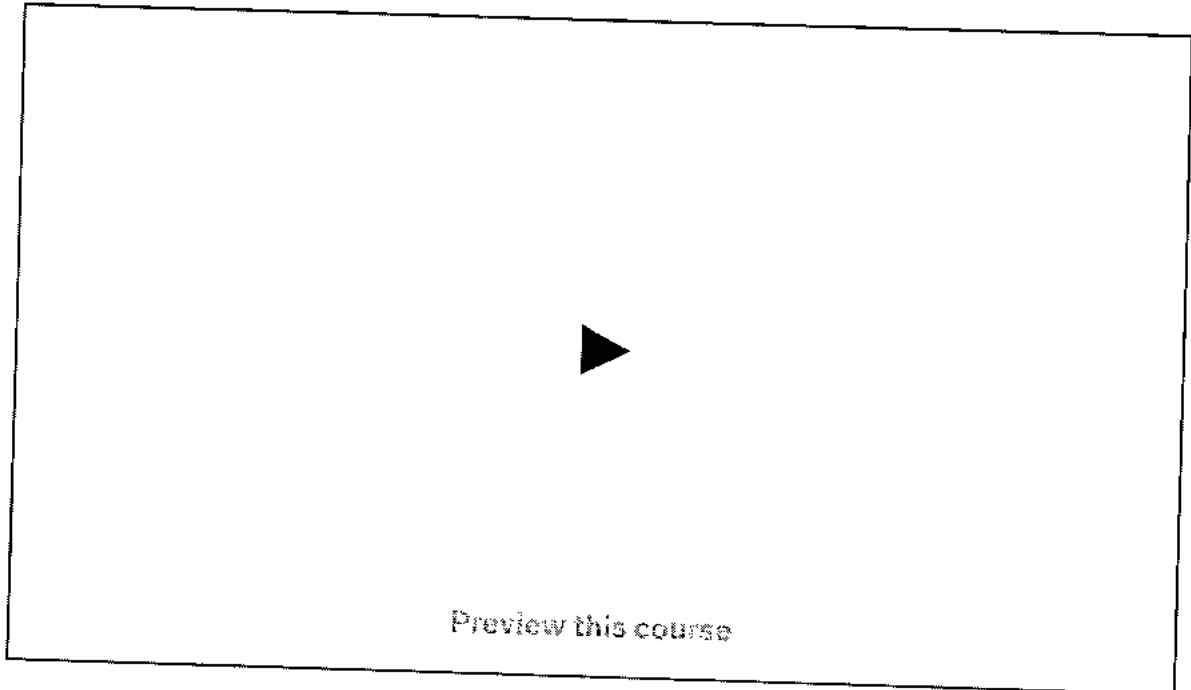
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▶ 1.1 INTRODUCTION TO LINEAR ALGEBRA		27:08
▶ 1.2 LINEAR ALGEBRA BASICS		13:55
▶ 1.2.1 LINEAR ALGEBRA BASICS		13:39
▶ 1.2.2 LINEAR ALGEBRA BASICS		11:20
▶ 1.2.3 LINEAR ALGEBRA BASICS		06:46
▶ 1.2.4 LINEAR ALGEBRA BASICS		08:40
▶ 1.2.5 LINEAR ALGEBRA BASICS		16:32
▶ 1.2.6 LINEAR ALGEBRA BASICS		16:44
▶ 1.2.7 LINEAR ALGEBRA BASICS		27:37
▶ 1.2.8 LINEAR ALGEBRA BASICS		16:27
▶ 1.2.9 LINEAR ALGEBRA BASICS		16:24
▶ 1.2.9.1 LINEAR ALGEBRA BASICS		25:27
▶ 1.2.9.2 LINEAR ALGEBRA BASICS		25:02
▶ 1.2.9.2.1 LINEAR ALGEBRA BASICS		16:44
✓ PYTHON PROGRAMMING		85 lectures • 28hr 2min
✓ MACHINE LEARNING BASICS		12 lectures • 3hr 44min

Machine Learning with Python (basic to adv...
 3.7 (198 ratings) 39,206 students

₹449
 ₹1,999

- Python may be used to automate data analysis
- Explain what machine learning is
- Work with data that is updated in real time
- Learn about predictive modelling tools and methodologies
- Discuss machine learning algorithms and how to put them into practice
- Validate the algorithms of machine learning
- Explain what a time series is and how it is linked to other ideas
- Learn how to conduct business in the future while living in the now
- Apply machine learning techniques on real world problem or to develop AI based application
- Analyze and Implement Regression techniques
- Solve and Implement solution of Classification problem
- Understand and implement Unsupervised learning algorithms

Objective: Learning basic concepts of various machine learning methods is primary objective of this course. This course specifically make student able to learn mathematical concepts, and algorithms used in machine learning techniques for solving real world problems and developing new applications based on machine learning.

Topics

- **Python for Machine Learning**

Introduction of Python for ML, Python modules for ML, Dataset, Apply Algorithms on datasets, Result Analysis from dataset, Future Scope of ML.

- **Introduction to Machine Learning**

What is Machine Learning, Basic Terminologies of Machine Learning, Applications of ML, different Machine learning techniques, Difference between Data Mining and Predictive Analysis, Tools and Techniques of Machine Learning.

- **Types of Machine Learning**

Machine Learning with Python (basic to adv...

3.7 (198 ratings) 39 206 students

₹449

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- Splitting dataset using TRAINTESTSPLIT

7. Decision Trees

- Introduction to Decision Tree
- Decision Tree algorithms

8. Unsupervised Learning

- Introduction to Unsupervised Learning
- Unsupervised Learning algorithms
- Applying Unsupervised Learning

9. AHC Algorithm

10. K-means Clustering

- Introduction to K-means clustering
- K-means clustering algorithms in detail

11. DBSCAN

- Introduction to DBSCAN algorithm
- Understand DBSCAN algorithm in detail
- DBSCAN program

Who this course is for:

- Machine Learning Engineers & Artificial Intelligence Engineers
- Data Scientists & Data Engineers
- Newbies and Beginners aspiring for a career in Data Science and Machine Learning
- Machine Learning SMEs & Specialists
- Anyone (with or without data background) who wants to become a top ML engineer and/or Data Scientist
- Data Analysts and Data Consultants
- Data Visualization and Business Intelligence Developers/Analysts

Machine Learning with Python (basic to adv...

3.7 (198 ratings) 39,206 students

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₹1,999



Data Analysis with Python

27_Data Analysis with Python



Data Analysis has been around for a long time. But up until a few years ago, developers practiced it using expensive, closed-source tools like Tableau. But recently, Python, SQL, and other open libraries have changed Data Analysis forever.

In the Data Analysis with Python Certification, you'll learn the fundamentals of data analysis with Python. By the end of this certification, you'll know how to read data from sources like CSVs and SQL, and how to use libraries like Numpy, Pandas, Matplotlib, and Seaborn to process and visualize data.

Courses

Data Analysis with Python

In these comprehensive video courses, created by Santiago Basulto, you will learn the whole process of data analysis: You'll be reading data from multiple sources (CSV, SQL, Excel), process that data using NumPy and Pandas, and visualize it using Matplotlib and Seaborn,

Additionally, we've included a thorough Jupyter Notebook course, and a quick Python reference to refresh your programming skills.



Collapse course

0/28

- Introduction to Data Analysis (</learn/data-analysis-with-python/data-analysis-with-python-course/introduction-to-data-analysis>)
- Data Analysis Example A (</learn/data-analysis-with-python/data-analysis-with-python-course/data-analysis-example-a>)
- Data Analysis Example B (</learn/data-analysis-with-python/data-analysis-with-python-course/data-analysis-example-b>)
- How to use Jupyter Notebooks Intro (</learn/data-analysis-with-python/data-analysis-with-python-course/how-to-use-jupyter-notebooks-intro>)
- Jupyter Notebooks Cells (</learn/data-analysis-with-python/data-analysis-with-python-course/jupyter-notebooks-cells>)
- Jupyter Notebooks Importing and Exporting Data (</learn/data-analysis-with-python/data-analysis-with-python-course/jupyter-notebooks-importing-and-exporting-data>)
- Numpy Introduction A (</learn/data-analysis-with-python/data-analysis-with-python-course/numpy-introduction-a>)

In this course, you'll learn how NumPy works and how it compares to Python's built-in lists. You'll also learn how to write code with NumPy, indexing, reshaping, applied statistics, and much more.

► Expand course

○ 0/9


Data Analysis with Python Projects

There are many ways to analyze data with Python. By completing these projects, you will demonstrate that you have a good foundational knowledge of data analysis with Python.

Finish them all to claim your Data Analysis with Python certification.

Mean-Variance-Standard Deviation Calculator [\(/learn/data-analysis-with-python/data-analysis-with-python-projects/mean-variance-standard-deviation-calculator\)](/learn/data-analysis-with-python/data-analysis-with-python-projects/mean-variance-standard-deviation-calculator)

Demographic Data Analyzer [\(/learn/data-analysis-with-python/data-analysis-with-python-projects/demographic-data-analyzer\)](/learn/data-analysis-with-python/data-analysis-with-python-projects/demographic-data-analyzer)

 Medical Data Visualizer [\(/learn/data-analysis-with-python/data-analysis-with-python-projects/medical-data-visualizer\)](/learn/data-analysis-with-python/data-analysis-with-python-projects/medical-data-visualizer)

Page View Time Series Visualizer [\(/learn/data-analysis-with-python/data-analysis-with-python-projects/page-view-time-series-visualizer\)](/learn/data-analysis-with-python/data-analysis-with-python-projects/page-view-time-series-visualizer)


Sea Level Predictor [\(/learn/data-analysis-with-python/data-analysis-with-python-projects/sea-level-predictor\)](/learn/data-analysis-with-python/data-analysis-with-python-projects/sea-level-predictor)

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 JavaScript Algorithms and Data Structures Certification [\(/learn/javascript-algorithms-and-data-structures/\)](/learn/javascript-algorithms-and-data-structures/)

 Front End Development Libraries Certification [\(/learn/front-end-development-libraries/\)](/learn/front-end-development-libraries/)

 Data Visualization Certification [\(/learn/data-visualization/\)](/learn/data-visualization/)

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- Clear Formatting in Excel (<https://www.freecodecamp.org/news/clear-formatting-in-excel/>)
- Check if File Exists Python (<https://www.freecodecamp.org/news/check-if-file-exists-python/>)

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VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

Date: 12/10/22

To,
Principal,
VCET

28_Student
Development
Programme on
JAVA programing

Subject: Regarding Value addition program for student development on "Advanced Java Programming" for SE students.

Dear Sir,


Department of Information Technology want to organize Student Development Programme (SDP) and Bridge Course on "Advanced Java Programming", which is to be held from 12/12/22 to 23/12/2022 in the offline mode. SDP is designed for 60 hrs which is an Advance course on Java Programming. The content of the course is enclosed herewith. The course will be highly beneficial for the students to make them industry ready.

Our faculties will be the resource persons for most of the sessions. Some sessions will be arranged by inviting external speaker. The approximate expenses towards the remuneration will be approximately Rs. 20,000/-. **We herewith request you to grant the permission to conduct the SDP and sanction Rs. 20,000/- for the same.**


Dr. Thaksen Parvat

HOD IT

To
Registrar/Account
- Approved.


19/10/22



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

Syllabus

Databases 3 days

SQL queries

Functions/procedures

NoSQL

Core java 2 days

Advanced java 3 days

Collections

Generics

Lambda functions

Concurrency

Regex

Event handling

Stream APIs

Thread

Features 2 days

JUnit

JDBC

Hibernate

P.T. Lareyo

HEAD

Dept. of Information Technology

Vidyavardhini's College of

Engineering and Technology.

Vasai Road 401 202.



Vidyavardhini's College of Engineering & Technology, Vasai
Department of Information Technology
Two weeks SDP on "Java Programming"
(12/12/22 to 23/12/22)

Day	Date	Session 1 (9:30 am - 11:15 am)	Name of the Speaker	Break (11:15 am - 11:30 am)	Session 2 (11:30 am - 1:00 pm)	Name of the Speaker	Break (1:00 pm - 2:00 am)	Session 2 (2:00 pm - 4:00 pm)	Name of the Speaker
Day 1	12/12/22	Inauguration			basic types, type casting, var, multidimensional array, string, bitwise operators, control statements, for-each, loops	Mr. Kaushik Raikar		Classes and objects, constructors, methods, this keyword, super keyword, static keyword, final keyword	Mr. Vikrant Agaskar
Day 2	13/12/22	inheritance, polymorphism, overloading constructor, objects as parameter, returning objects, functions, recursions, access control	Mr. Vikrant Agaskar		nested and inner classes, variable arguments, overloading vararg method, method overriding, dynamic method dispatch, abstract class, object class,	Mr. Chandan Kolvankar		packages and interfaces, functional interface, nested interfaces, variables in interface, default interface methods,	Mr. Chandan Kolvankar
Day 3	14/12/22	exception handling, multiple catch, throw, throws, finally, built-in, Exception class	Mr. Chandan Kolvankar		Java database connections	Arun Gupta		Hibernate	Arun Gupta
Day 4	15/12/22	PL/SQL functions	Mr. Chandan Kolvankar		Multithreading, thread model, Thread class and Runnable, isAlive(), join(), Thread synchronization, Inter thread communication, deadlock, stopping, suspending and resuming, thread state	Mr. Chandan Kolvankar		getter and setter, enumerations, type wrapper, autoboxing, annotations,	Mr. Chandan Kolvankar
Day 5	16/12/22	IO, reading and writing to streams, Lambda expressions	Mr. Chandan Kolvankar		Generics, switch, arrow, yield,	Mr. Chandan Kolvankar		collections, Java.lang, NIO	Mr. Chandan Kolvankar
Day 6	17/12/22	Event handling, Regexp, Stream API	Mr. Chandan Kolvankar		Spring framework basics, architectur, environment setup	Nilesh More		Spring containers, dependency injections, annotations	Nilesh More
Day 7	18/12/22	Spring beans, event handling, AOP, JDBC	Nilesh More		Spring web apps, MVC	Nilesh More		Reactive Spring	Nilesh More
Day 8	20/12/22	Database design, converting EER to tables	Mrs. Smita Jawale		SQL basics, queries	Mrs. Smita Jawale		Complex SQL queries	Mrs. Smita Jawale
Day 9	21/12/22	Project development			Project development			Project development	
Day 10	22/12/22	Project presentations/ Assessment			Project presentations/ Assessment				

P. T. Laway
HEAD
 Dept. of Information Technology
 Vidyavardhini's College of Engineering and Technology,
 Vasai Road, Vasai, Mumbai - 401202





VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

Seminar on Bootcamp on Java Programming

Date / Time	12 th December 2022 – 23 rd December 2022 9.30 AM – 5.00 PM
Venue/Platform	Room number 309
Duration	60 hrs.
Speaker	Mr. Nilesh More, Architect, 3i Infotech Mr. Arun Gupta, Tech lead, EnKash Mr. Kaushik Raikar, Software Developer, Zeus learning. Mr. Vikrant Agaskar, Assistant Professor, Computer engineering. Ms. Smita Jawale, Assistant Professor, Computer engineering. Mr. Chandan Kolvankar, Assistant Professor, Information Technology.
Coordinator	Mrs. Madhavi Waghmare, IT VCET
Target audience	SE IT
Objectives of this seminar	Students would be able to :- 1. Understand the Basic coding. 2. Understand the full power of Java 3. Understand how to manage data.
No. of attendees	28
Participants	SE IT
Registration Fee	500
Points discussed during the workshop	Students had their first year 'C' programming course taught in 2 months. This was because their first-year admission was delayed. University had to finish both their semesters in 8 months. Students had some problems with coding. To solve those problems and learn java properly this workshop was organized. The following topics were covered during this workshop. 1. Coding fundamentals 2. Core java 3. Java collection 4. Java multithreading 5. Regular expressions 6. Database design. 7. Introduction to NoSQL databases. To enable students to develop applications and to expose them to professional app development following topics were introduced 8. Spring framework



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

	9. Hybernate 10. Project development using Spring Boot.
--	--

MW
Mrs. Madhavi Waghmare
AP, IT Dept.

P. T. Parvat
Dr. Thaksen Parvat
HOD, IT Dept.



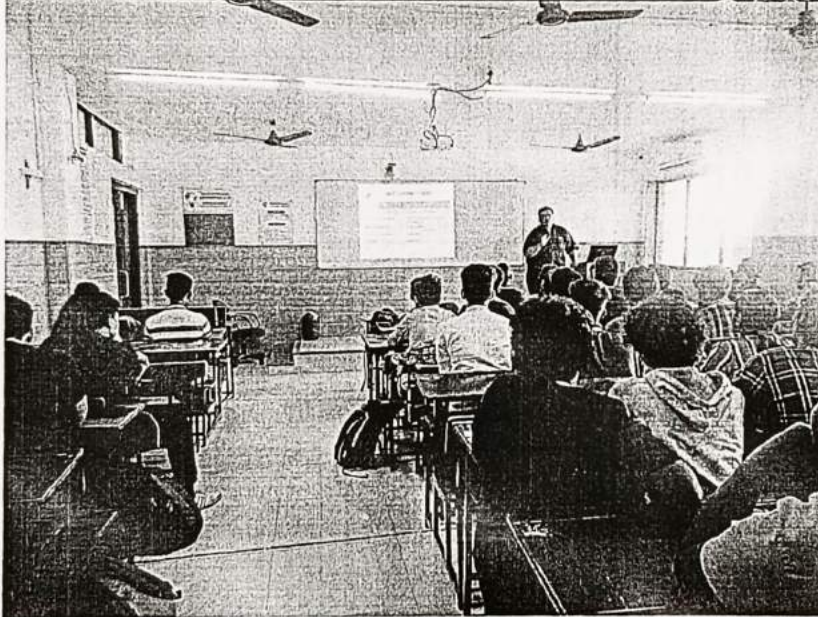
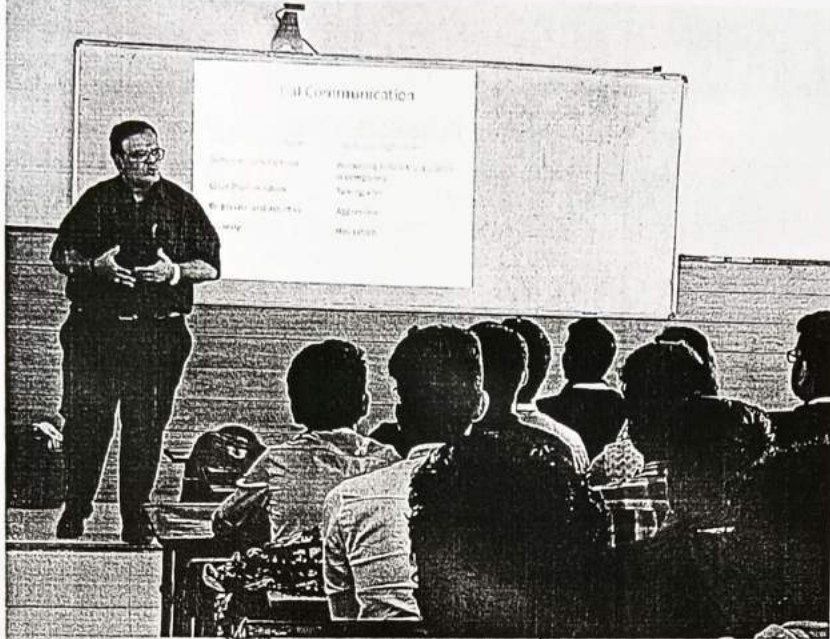


VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

Snapshots of the event:





VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY
K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

29_Student
Development
Programme on
MERN Stack

Date: 12/10/22

To,
The Principal,
VCET

Subject: Regarding Value addition program for student development on "JS Stack" for TE students.

Dear Sir,

Department of Information Technology want to organize Student Development Programme (SDP) and Bridge Course on "JS Stack", which is to be held from 12/12/22 to 23/12/2022 in the offline mode. SDP is designed for 60 hrs which is an Advance course on Java Programming. The content of the course is enclosed herewith. The course will be highly beneficial for the students to make them industry ready.

Our faculties will be the resource persons for most of the sessions. Some sessions will be arranged by inviting external speaker. The approximate expenses towards the remuneration will be approximately Rs. 20,000/-. **We herewith request you to grant the permission to conduct the SDP and sanction Rs. 20,000/- for the same.**

Dr. Thaksen Parvat

HOD IT

To
Registrar/Account.
— Approved.

12/10/22



Syllabus

JS stack.

1. Databases 2 days
SQL
mongodb
Redis
AWS Redshift
2. React 3 days
3. React Native 2 days
4. Nodejs 3 days

P. Tharav

HEAD

Dept. of Information Technology
Vidyavardhini's College of
Engineering and Technology.
Vasai Road 401 202.



Vidyavardhini's College of Engineering & Technology, Vasai
Department of Information Technology
Two weeks SDP on "MERN stack"
(12/12/22 to 23/12/22)

Day	Date	Session 1 (9:30 am - 11:15 am)	Name of the Speaker	Break (11:15 am - 11:30 am)	Session 2 (11:30 am - 1:00 pm)	Name of the Speaker	Break (1:00 pm - 2:00 am)	Session 2 (2:00 pm - 4:00 pm)	Name of the Speaker
Day 1	12/12/22	Inauguration				Tayyab Ali		NGinx server	Tayyab Ali
Day 2	13/12/22	Webhooks, Websockets, Pub/Sub, Polling, REST API	Ravi Lamkar		HTTP, DHCP, DNS, TLS, SSL, Browser architecture, Rendering				
Day 3	15/12/22	Data pipeline, Kafka	Sandip Nagale		SQL, PL/SQL				
Day 4	16/12/22	Nodejs basics, NPM, event loop, asynchronous programming			NOSQL				
Day 5	17/12/22	React hooks, refs,	Tarun Singh		File system module, HTTP module, Crypto	Tarun Singh		Dealing with databases	Tarun Singh
Day 6	18/12/22	client side authentication	Swapnil Mistry		Higher order components	Swapnil Mistry		Redux	Swapnil Mistry
Day 7	22/12/22	Firestore	Swapnil Mistry		React component design	Swapnil Mistry		testing and deployment	Swapnil Mistry
Day 8	23/12/22	Creating Rest API with databases	Tejas Kolvankar		Enterprise Applications			Express rendering, MVC	Tarun Singh
Day 9	24/12/22	Authentication	Tarun Singh		express, generator, router	Tarun Singh		testing and deployment	Tarun Singh
Day 10	26/12/22	Project development	Tarun Singh		A simple fullstack application development	Tarun Singh		Project development	Tarun Singh
Day 11	27/12/22	Project presentations			Project development			Project presentations	HEAD

Praveen Dhanraj

Flays
 Dept. of Information Technology
 Vidyavardhini's College of Engineering and Technology,
 Vasai Road 4 | 2022

Seminar on Bootcamp on MERN Stack

Date / Time	12 th December 2022 – 23 rd December 2022 9.30 AM – 5.00 PM
Venue/Platform	Room number 223
Duration	60 hrs.
Speaker	Mr. Sayyad Tayyabali Mukhtar Mr. Ravi lamkoti, Content Stack Mr. Sandeep Nagale, Accenture Mr. Tarun Singh, Raw Engineering Mr. Swapnil Mistry, Dream11
Coordinator	Mrs. Madhavi Waghmare, IT VCET
Target audience	TE IT
Objectives of this seminar	Students would be able to: - 1. Explore the Full power of Mern Stack. 2. Understand Nodejs packages 3. Understand full stack application development and deployment.
No. of attendees	20
Participants	TE IT
Registration Fee	500
Points discussed during the workshop	Students had MERN stack in 5 th semester. They knew the basics of the MERN stack. This workshop was to help them understand professional App development from industry people. 1. Web hooks 2. Installation and configuration of Nginx 3. MongoDB 4. React development 5. Node Development 6. Data pipeline

Madhavi
Mrs. Madhavi Waghmare
AP, IT Dept.



P. Thakson
Dr. Thakson Parvat
HOD, IT Dept.



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

Seminar on
Bootcamp on MERN Stack

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Mrs. Madhavi Waghmare
AP, IT Dept.



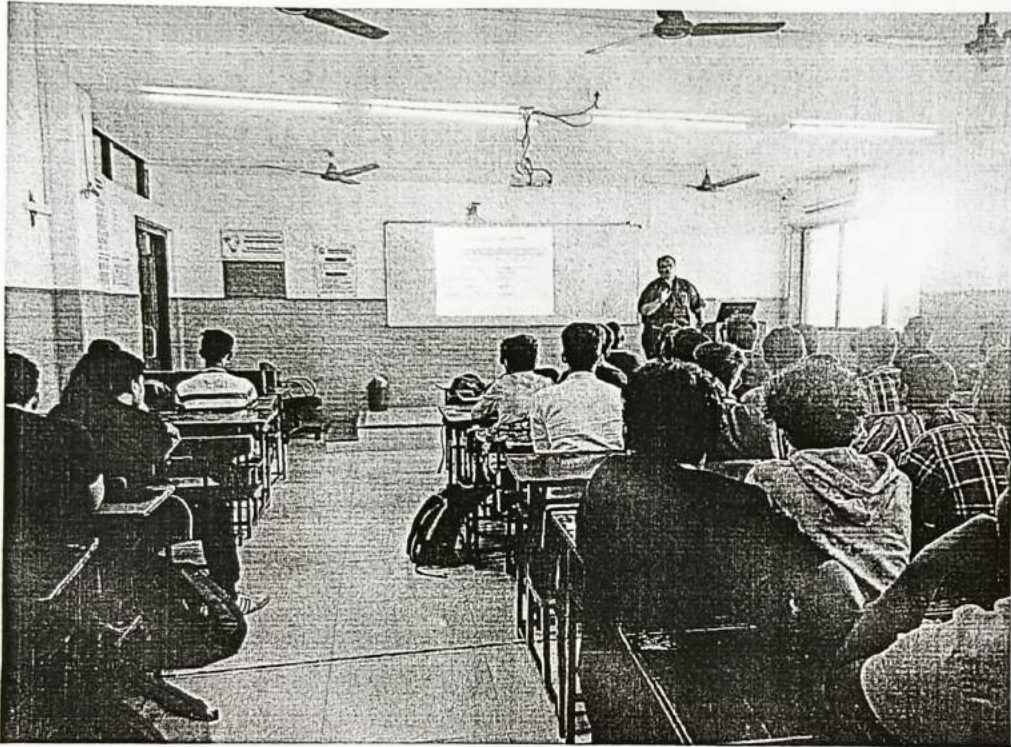
Dr. Thaksen Parvat
HOD, IT Dept.



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra



Date: 23/02/2022

To
The Principal,
VCET, Vasai (W)

30_German
Language Training
Program

Subject: Permission for starting new Batch of German Language Course for June 2022- April 2023

Respected Sir,

We have established German Club in 2016. The coming batch will be the 6th batch. The detailed reports of previous batches are attached herewith.

The syllabus is attached herewith.

The proposed registration fees for this course is Rs. 3000/- only.

Kindly permit to start the new batch.

Thanking you.

Yours faithfully,

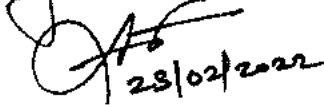


Prof. Yogesh Pingle
German Language Teacher

Expected Students	30 Students	40 Students	50 Students
Total Income	30*3000 = 90000/-	40*3000 = 120000/-	50*3000 = 150000/-
Remuneration@800Rs per Lecture * 52	52*800 = 41600/-	52*800 = 41600/-	52*800 = 41600/-
Book Cost@440Rs. per Student	30*440 = 13200/-	40*440 = 17600/-	50*440 = 22000/-
Profit to College	45800/-	60800/-	86400/-

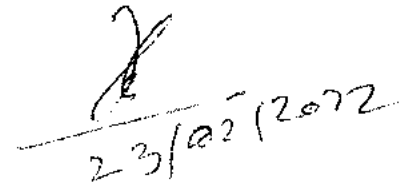
*Last year permission letter is enclosed.

Kindly permit



HOD-IT

To
Registrar / A/couch.
Permitted



23/02/2022



Syllabus

Subject Code	Subject Name	Examination Scheme					
		Theory Marks		Term Work	Practical	Oral	Total
		Internal assessment	End Sem. Exam				
		Test1					
A1	German Language	20	40	20	--	20	100

Module – 1

(12Hr) CO1

1. Alphabets, Compound letters and their pronunciations
2. Practice pronunciations
3. Chapter 1 (Conversation)
4. Cases and Personal Pronoun, The Verb: Present Tense (Regular Verbs)
5. The Verb (Special Verbs) sein and haben
6. Chapter 2 (Conversation)
7. Possessive Pronoun, Demonstrative Pronoun and Reflexive pronoun
8. Numbers
9. Chapter 3 (Conversation)
10. Frage (Questions) pronouns: Wer (who) and Was (what)
11. Days, Months, Years
12. Myself, Our Family

Module – 2

(12Hr) CO2

1. Types of Verbs
 - a. Regular Verbs & Irregular Verbs
 - b. Transitive & Intransitive Verbs
 - c. Strong & Separable Verbs
 - d. Modal Verbs
2. Conjugation of Verbs
3. Chapter 4 (A Journey)
4. Nouns - Declination
5. Word Order – Sentence formation
6. Chapter 5 (A friend Comes)
7. Chapter 6 (2 Hours in Munchen)
8. Prepositions with Dative (Local and Temporal)



9. Prepositions with Accusative (Local and Temporal)
10. Timings

Module - 3

(14Hr)

CO3

1. Meals and Timings
2. Chapter 7 (Conversation)
3. Modal Verbs in detail
4. Chapter 8 (My House)
5. Prepositions with Dative or Accusative
6. Articles depending on action and / or position (wohin and wo)
7. Describe the picture
8. Chapter 9 (A journey)
9. Genitive Case
10. Past Tense (Imperfect)
11. Perfect Tense
12. Verb Conjugation Schemes (Present – Past – Perfect)

Module - 4

(14Hr)

CO4

1. Daily Routine (Morning till evening)
2. Letter writing
3. Adjective Declination
4. Ja-nein-doch (Different answers – yes, no)
5. Neben sentences (Composite sentences) – because, that
6. Relative Sentences
7. Colours, Vegetables, fruits
8. Internet / Computer Vocabulary
9. Email Writing
10. Writing Resume (Bio Data)

Text Books:

1. "Deutsche Sprachlehre für Ausländer", by Dora Schulz, Heinz Griesbach, Max Hueber Verlag
2. "Netzwerk Deutsch als Fremdsprache A1", by Helen Schmitz Stefanie Dengler, Paul Rusch, Langenscheidt; First Indian Edition 2015 edition (2015)

Online References:

1. https://www.youtube.com/channel/UCPK3Vd_cdMZ35q6DWE1KFSA
2. https://onlinecourses.nptel.ac.in/noc21_hs30/preview
3. https://onlinecourses.nptel.ac.in/noc19_hs50/preview



Vidyavardhini's College of Engineering & Technology

German Club (Established in 2016)

Assessment:

Internal Assessment for 20 marks:

Consisting of One Compulsory Class Test Approximately 40% to 50% of syllabus content must be covered in the test.

End Semester Examination:

End Semester Test consists of full syllabus.

Theory exam is of 40 M.

Term Work = 20 M which consists of at least 4 assignments, 4 quizzes.

Oral Exam = 20 M which consists of Dictation – 5 M, Listening Comprehension – 5 M, Reading Ability – 5 M, Oral – 5 M

Jogesh P. Pingle
Jogesh P. Pingle



Vidyavardhini's College of Engineering & Technology
German Club (Established in 2016)

Batch 2019-20 and 2020-21

Sr. No.	Student Name	Department
1	Saloni Tambe	MECH
2	Isha Pise	MECH
3	Udesh Kushte	MECH
4	Atharva Dixit	MECH
5	Tushar Mittal	IT
6	Granthali Jadhav	IT
7	Hardik Yewale	IT
8	Rohan Patil	INSTRU
9	Shraddha Mistry	INSTRU
10	Pritesh Mair	COMP
11	Riya Raut	INSTRU
12	Urmiksha Tawde	INSTRU
13	Abhishesk Tandel	MECH
14	Pecyush C.	INSTRU
15	Viditi Damodar	MECH
16	Manthan Sarfare	IT
17	Divya Chaudhari	IT
18	Ryan W.	INSTRU
19	Alston Cerejo	CIVIL
20	Devansh Jaiswal	INSTRU
21	Ria Mendes	MECH
22	Sakshi Tilwankar	MECH
23	Riya Patil	MECH
24	Syed Qadri	MECH
25	Anjana Pathan	INSTRU
26	Ragini Nair	INSTRU
27	Swastik Raut	INSTRU
28	Tejal Pednekar	INSTRU
29	Eesha Kolambkar	INSTRU
30	Hardik Vora	CIVIL
31	Soham Waghmare	COMP
32	Sanskriti Sankhe	IT
33	Harsh Patil	INSTRU
34	Suyash Dandekar	MECH
35	Pritesh P.	COMP

Jyeshth Ringe



Vidyavardhini's College of Engineering and Technology, Vasai

German Club - Established in 2016

Lectures (2019-2021)

Module No.	Sr. No.	Contents	Execution Date
1	1	Alphabets, Compound letters	18 Feb 2019
	2	Practice pronunciations	18 Feb 2019
	3	Chapter 1 (Conversation)	20 Feb 2019
	4	Cases and Personal Pronoun, The Verb: Present Tense (Regular Verbs)	20 Feb 2019
	5	The Verb (Special Verbs) sein and haben	27 Feb 2019
	6	Chapter 2 (Conversation)	27 Feb 2019
	7	Possessive Pronoun, Demonstrative Pronoun and Reflexive pronoun	5 Mar 2019
	8	Numbers	5 Mar 2019
	9	Chapter 3 (Conversation)	7 Mar 2019
	10	Frage (Questions) pronouns: Wer (who) and Was (what)	1 Apr 2019
	11	Days, Months, Years	1 Apr 2019
	12	Myself, Our Family	8 Apr 2019
2	1	Types of Verbs	8 Apr 2019
	2	Conjugation of Verbs	3 Jan 2020
	3	Chapter 4 (A Journey)	4 Jan 2020
	4	Nouns - Declination	18 Jan 2020
	5	Word Order – Sentence formation	22 Feb 2020
	6	Chapter 5 (A friend Comes)	22 Feb 2020
	7	Chapter 6 (2 Hours in Munchen)	29 Feb 2020
	8	Chapter 6 (2 Hours in Munchen)	29 Feb 2020
	9	Prepositions with Dative (Local and Temporal)	7 Mar 2020
	10	Prepositions with Accusative (Local and Temporal)	7 Mar 2020
	11	Prepositions with Accusative (Local and Temporal)	8 Mar 2020
	12	Timings	8 Mar 2020
3	1	Meals and Timings	5 Feb 2021
	2	Chapter 7 (Conversation)	5 Feb 2021
	3	Chapter 7 (Conversation)	13 Feb 2021
	4	Modal Verbs in detail	13 Feb 2021
	5	Chapter 8 (My House)	20 Feb 2021
	6	Prepositions with Dative or Accusative	20 Feb 2021
	7	Articles depending on action and / or position	27 Feb 2021



Vidyavardhini's College of Engineering and Technology, Vasai

German Club - Established in 2016

		(wohin and wo)	
	8	Describe the picture	27 Feb 2021
	9	Describe the picture	6 Mar 2021
	10	Chapter 9 (A journey)	6 Mar 2021
	11	Genitive Case	29 Mar 2021
	12	Past Tense (Imperfect)	29 Mar 2021
	13	Perfect Tense	31 Mar 2021
	14	Verb Conjugation Schemes (Present – Past – Perfect)	31 Mar 2021
4	1	Daily Routine (Morning till evening)	4 Apr 2021
	2	Letter writing	4 Apr 2021
	3	Letter writing	10 Apr 2021
	4	Adjective Declination	10 Apr 2021
	5	Ja-nein-doch (Different answers – yes, no)	11 Apr 2021
	6	Neben sentences (Composite sentences) – because / that	11 Apr 2021
	7	Relative Sentences	17 Apr 2021
	8	Colours, Vegetables, fruits	18 Apr 2021
	9	Internet / Computer Vocabulary	23 Apr 2021
	10	Email Writing	24 Apr 2021
	11	Email Writing	25 Apr 2021
	12	Writing Resume (Bio Data)	1 May 2021
	13	Writing Resume (Bio Data)	1 May 2021
	14	Revision	2 May 2021

Logesh Bhoj

Vidyavardhini's College of Engineering & Technology
German Club (2020-21)

Deutschsprachiges Papier

[40 marken]

A) Lesen Sie und ergänzen Sie die Zahlen. [2 marken]

(1) null : _____

(2) 14 : _____

(3) 20 : _____

(4) sechs : _____

B) Ergänzen Sie die Verben in der richtigen form. [3 marken]

(1) Was _____ du von Beruf? (sein)

(2) Wir _____ frei. (haben)

(3) Sie _____ in Berlin. (arbeiten)

C) Satzmelodie : Frage oder Antwort? Ergänzen Sie „.“ oder „?“
Lesen Sie laut [2 marken]

(1) Hören Sie gern Musik _____

(2) Halb, Julia _____ Wie geht's _____

D) Ein paar worte über (beliebig 1) [3 marken]

(1) ich selbst

(2) meine familie

A] Finde 4 Wörter aus Puzzle [2 marken]

M	A	D	C	H	E	N
R	B	N	E	T	L	E
D	I	V	W	F	R	P
A	N	E	G	A	W	V
B	R	O	T	S	L	G
O	E	L	S	D	E	T

(1) _____

(2) _____

(3) _____

(4) _____

B] Welches Wort passt nicht? Streichen Sie durch [3]

(1) Orange, Tomate, Apfel, Banane

(2) Brot, Brötchen, Kuchen, Butter

(3) Suppe, Tee, Keks, Wasser

C] Beim Essen. Ordnen Sie das Gespräch. [3 marken]

(1) Guten Appetit!

(2) Schmeckt es dir?

(3) Möchtest du noch etwas?

(a) Ja, das schmeckt sehr!

(b) Nein danke, ich bin satt

(c) Danke, gleichfalls!

D] Wie heißen die Sätze richtig? Notieren Sie

(1) bitte / ich / Entschuldigung / um

(2) leid / tut / mir / es

Q.3]

1) Schreiben Sie Sätze mit haben oder sein [3 marken]

(1) Tina / gegessen / haben / sein / eine Suppe
→ _____

(2) Daniel / gelernt / drei Stunden Englisch / haben / sein
→ _____

(3) haben / sein / Tina / am Wochenende eine Party / gemacht
→ _____

2) Welches Getränk kommt in ein Glas, welches in eine Tasse?
Ergänzen Sie die Sätze das Glas [4 marken]:

Das Glas    

die Tasse  

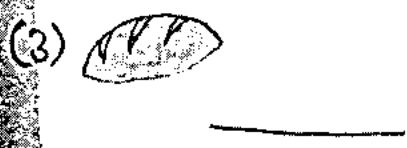
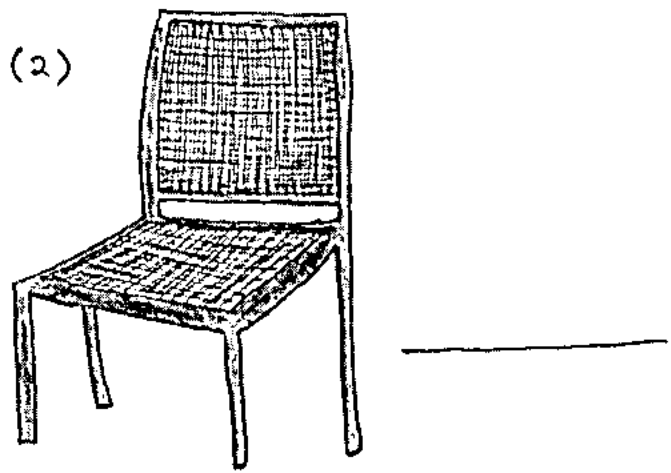
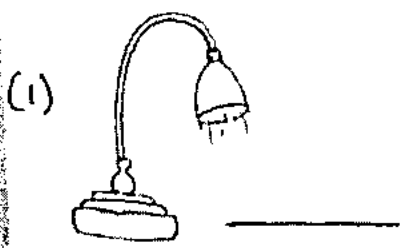
(1) Ich nehme _____ Cola.

(2) Für mich bitte _____ Kaffee und _____ Wasser.

(3) Ich möchte gern _____ Bier.

(4) Ich nehme _____ Tee und _____ Orangensaft.

3) Identifiziere das Objekt [3 marken]

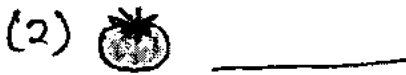
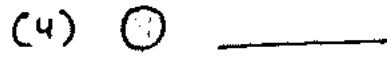
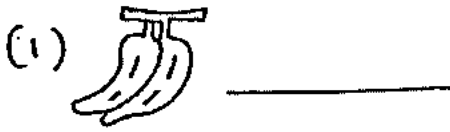


C

C

Q.4]

A] Name : Farbe , Gemüse , Obst [3 marken]



B] Briefeschreiben [4 marken]

(1) Schreibe deinem Freund einen Brief und lade ihn/sie zu deiner Geburtstagsfeier ein

C] Lebenslauf schreiben [3 marken].
(Biografien)

Deutsche Sprache

Team Test - II (20M)

1) Welches Wort passt nicht? Streichen Sie durch. [3 marken]

(a) Kuchen, Joghurt, Käse, Milch

(b) Gurke, Salat, Tomate, Kiwi

(c) Salz, Eier, Butter, Käse

2) Name das Objekt. [3 marken]







3) Schreiben Sie die Sätze. [2 marken]

(a) will / machen / Johanna / heute Sport

(b) muss / fahren / Sie / morgen nach Berlin

4) Ergänzen Sie den passenden Possessivartikel. [2 marken]

(a) Ist das Deutschbuch von Johann? - Ja, das ist _____
Deutschbuch.

(b) Johann und Maria, wer ist denn das da? - Das ist _____
Deutschlehrerin.

Q.5] Die Uhrzeiten. Was passt zusammen? [3 marken]

- (1) morgens
- (2) vormittags
- (3) mittags
- (4) nachmittags
- (5) abends
- (6) nachts

- (a) 12:00 - 14:00
- (b) 22:00 - 6:00
- (c) 18:00 - 22:00
- (d) 6:00 - 9:00
- (e) 9:00 - 12:00
- (f) 14:00 - 18:00

Q.6] Langes oder kurzes e? Was hören Sie? Kreuzen Sie an [2 marken]

(a) Frau Keller Frau Kehler

(b) Herr Meerer Herr Merrer

Q.7] Identifiziere die Farbe [2 marken]

(a)  _____

(b)  _____

(c)  _____

(d)  _____

Q.8] Und, oder, aber? Ergänzen Sie. [3 marken]

(a) In meinem Job muss ich viel telefonieren _____ viel E-mails schreiben.

(b) Ich habe viel Stress, _____ die Arbeit macht Spaß.

(c) Am Abend treffe ich Freunde _____ ich gehe ins Filmstudio.

1] Schreiben Sie die Verben in der richtigen form. [2 marken]

(a) Tom _____ (gehen) gern ins Kino. Und er _____ (hören) gern Musik.

(b) Andrea _____ (spielen) gern Fußball. Und sie _____ (chatten) auch gern.

2] Notieren Sie die Pluralformen. [3 marken]

(a) der Techniker _____

(b) der Arzt _____

(c) die Frau _____

3] Zahlen in Worten. [2 marken]

(a) 20 _____

(b) 40 _____

(c) 90 _____

(d) 50 _____

4] Was passt zusammen? Ordnen Sie zu. [3 marken]

(a) Herzlichen Dank für

(1) sehr gut.

(b) Danke, das ist

(2) ich bin satt.

(c) Nein danke

(3) die Einladung.

(d) Guten

(4) lieb von dir

(e) Schmeckt

(5) Appetit!

(f) hallo

(6) Schöne

Q.5] finde 4 Wörter aus Puzzle. [2 marken]

R	O	H	C	L	I	M	E	R
Y	A	I	S	C	H	U	L	E
A	S	B	B	U	T	E	E	T
E	F	R	E	U	N	D	M	T
D	O	B	D	N	N	T	U	U
T	U	G	E	R	D	G	I	M

- (a) _____
(b) _____
(c) _____
(d) _____

Q.6] Wie - Wer - Wo - Woher? Ergänzen Sie. [3 marken]

(a) Ich bin Peter. _____ heißt du?

(b) _____ kommst du?

(c) Ich bin Emma Reiter. Und _____ sind Sie?

Q.7] Ergänzen Sie. [2 marken]

(a) Ich _____ Emma.

(b) Hallo, ich heiße Nina. Wie _____ du?

Q.8] Englisch zu Deutsch [3 marken]

(a) School _____

(b) Teacher _____

(c) Morning _____

(d) coffee _____

(e) Friend (male) _____

(f) Book _____

Subject: German Language class: TECOMP

Quiz - I.

Date: 02/02/2018

Time: 6. Quiz

Q.1) a) Ergänzen Sie.

i) Hallo, ich heiße Nina. Wie _____ du?

ii) Ich bin Julia. Und wer _____ du? (sein)

iii) Hallo, Anne! Wie _____? Danke, _____. Und _____

b) Sie oder du? Ergänzen Sie.

i) Guten Tag. Ich heiße Müller. Wie heißen _____?
Mein Name ist Wörner, Pia Wörner.

ii) Hallo. Ich heiße Pia. Und wer bist _____?
Ich heiße Tom.

c) Ergänzen Sie.

i) - Hallo, ich bin Maria. Und das ist Klara.
- Entschuldigung, wie _____ du?
- Klara.

ii) - Guten Tag! Mein Name _____ Tina Kleber.
- Guten Tag! Ich heiße Anne Grams.
- Entschuldigung, wie _____ Sie?
- Grams, Anne Grams.

Q.2) a) Wie - wer - wo - woher? Ergänzen Sie.

i) Ich bin Emma Reiter. Und _____ sind Sie?

ii) Ich wohne in Salzburg. _____ wohnen Sie?

iii) Ich bin Peter. _____ heißt du?

iv) _____ kommst du?

b) Fragen und Antworten. Ordnen Sie zu.

- | | |
|---------------------------------------|---------------------------|
| 1. <u>D</u> Wie heißen Sie? | A. Aus Irland. Und Sie? |
| 2. _____ Wo wohnst du? | B. Englisch und Deutsch. |
| 3. _____ Woher kommen Sie? | C. Emilia. |
| 4. _____ welche Sprache sprechen Sie? | D. Mein Name ist Klaus. |
| 5. _____ Wer bist du? | E. Aus Brasilien. Und du? |
| 6. _____ Wo wohnen Sie? | F. In Stuttgart. Und Sie? |
| 7. _____ Woher kommst du? | G. In Berlin. Und du? |

c) Ergänzen Sie. (ich - Sie - du - er - sie)

1. Paul kommt aus Österreich.
_____ wohnt in Innsbruck.
2. Wie heißt _____? → Maria. Und du?
3. Das ist Claudia. _____ kommt aus Deutschland.
4. Wo wohnen _____? → In Berlin. Und Sie?
5. Hallo, _____ bin Luisa.

d) Schreiben Sie die Sätze, und die Fragen richtig.

- | | |
|----------------------------------|--------------------------------|
| 1) in Berlin / wohnen / ich / . | 5) heißen / er / Peter / . |
| 2) Sie / heißen / wie / ? | 6) kommen / woher / du / ? |
| 3) sein / wer / du / ? | 7) sein / mein Name / Nina / . |
| 4) ich / aus Moskau / kommen / . | 8) du / wohnen / wo / ? |

0.5) a) Hören Sie noch einmal, formell sie oder informell du? Kreuzen Sie an.

Dialog 1. Sie du 2. Sie du

3. Sie du 4. Sie du

b) Hören Sie die Fragen und schreiben Sie die Antworten

1. Ich.....

2. _____

3. _____

c) Hören Sie und schreiben Sie den Zahlen,

1. 2-4-...

2.

3.

4.

d) Welche Telefonnummer hören Sie? Kreuzen Sie an.

1. 3488679 2. 561214 3. 0174-90348905
3489679 561224 0174-90348904

4. 99841435
79841435

Answer:- 1) Ich wohne in Berlin.

2)

3)

4)

5)

6)

7)

8).

3) a) Ergänzen Sie die Tabelle.

	heißen	wohnen	Kommen	sein	haben
ich	heiße				
du			kommst		
er/sie		wohnt			
Sie					
ihr					

4) a) Lesen Sie und ergänzen Sie die Zahlen ^{ten}.

i) null: 0 ; ii) 3: drei

iii) sechs: _____ ; iv) 8: _____

v) elf: _____ ; vi) 14: _____

vii) ²⁰ ~~sechs~~: _____ ; viii) siebzehn: _____

German language

Quiz - II

(2M)

Q-1) Die Tage. - Ergänzen Sie bitte!

- a) Mitt _____
- b) Fr _____
- c) S _ _ S _ _
- d) D _ _ n _ _

Q-2) Pluralformen.

(3M)

Singular	Plural
a) der Arzt	_____
b) der Tag	_____
c) das Buch	_____
d) die Stunde	_____
e) der Mensch	_____
f) das Auto	_____

German language.
2) (1) Verben.

Quiz - III
(3M)

Prof. Yogesh Kingle

sein

ich

du

er/es/sie

ist

wir

ihr

sie/Sie

sind

arbeiten

ich

du

er/es/sie

wir

arbeiten

ihr

sie/sie

arbeiten

fahren

ich

fahre

du

er/es/sie

wir

ihr

fahrt

sie/Sie

2) Zahlen ~~schreiben~~ schreiben. (2M)

a) neunhundertzwanzig _____

b) 45 _____

c) vierzigtausend _____

d) 670 _____

Quiz IV

Prof. Yogesh Pingle

Prof. Yogesh Pingle

German language

Quiz-IV

1) Präpositionen mit dem Dativ. (2m)

Übung:

a) Robert geht um 8 Uhr aus d_____ Haus.

b) Er wohnt mit sein_____ Freund Hans zusammen.

c) Ich gehe heute zu mein_____ Schwester.

d) Ich bin schon seit ein_____ Woche hier.

2) Präpositionen mit dem AKkusativ. (1m)

1) Heute gehe ich ohne mein_____ Freund spazieren.

2) Robert geht um d_____ Haus.

3) Schreiben Sie bitte acht Sätze am "Unsere Familie". (2)

31_Coursera-Supervised Machine Learning: Regression and Classification


Home > Browse > Data Science > Machine Learning

DeepLearning.AI

Supervised Machine Learning: Regression and Classification

This course is part of [Machine Learning Specialization](#)

🗣️ Taught in English | [8 languages available](#) | Some content may not be translated

 Instructors: [Andrew Ng](#) +3 more
Top Instructor

Enroll for Free
Starts Nov 9

Financial aid available

469,738 already enrolled

Course

Gain insight into a topic and learn the fundamentals

4.9 ★ (14,733 reviews) | 👍 98%

Beginner level

Recommended experience ⓘ

33 hours (approximately)

Flexible schedule

Learn at your own pace

[View course modules](#)

What you'll learn

✓ Build machine learning models in Python using popular machine learning libraries NumPy & scikit-learn

✓ Build & train supervised machine learning models for prediction & binary classification tasks, including linear regression & logistic regression

Skills you'll gain

Regularization to Avoid Overfitting

Gradient Descent

Supervised Learning

Linear Regression

Logistic Regression for Classification

Details to know



Shareable certificate

Add to your LinkedIn profile



English

Subtitles: Kazakh, German, +19 more



Assessments

9 quizzes

There are 3 modules in this course coursera

In the first course of the Machine Learning Specialization, you will:

- Build machine learning models in Python using popular machine learning libraries NumPy and scikit-learn.
- Build and train supervised machine learning models for prediction and binary classification tasks, including linear regression and logistic regression

The Machine Learning Specialization is a foundational online program created in collaboration between DeepLearning.AI and Stanford Online. In this beginner-friendly program, you will learn the fundamentals of machine learning and how to use these techniques to build real-world AI applications.

This Specialization is taught by Andrew Ng, an AI visionary who has led critical research at Stanford University and groundbreaking work at Google Brain, Baidu, and Landing.AI to advance the AI field.

This 3-course Specialization is an updated and expanded version of Andrew's pioneering Machine Learning course, rated 4.9 out of 5 and taken by over 4.8 million learners since it launched in 2012.

It provides a broad introduction to modern machine learning, including supervised learning (multiple linear regression, logistic regression, neural networks, and decision trees), unsupervised learning (clustering, dimensionality reduction, recommender systems), and some of the best practices used in Silicon Valley for artificial intelligence and machine learning innovation (evaluating and tuning models, taking a data-centric approach to improving performance, and more.)

By the end of this Specialization, you will have mastered key concepts and gained the practical know-how to quickly and powerfully apply machine learning to challenging real-world problems. If you're looking to break into AI or build a career in machine learning, the new Machine Learning Specialization is the best place to start.

[Read more](#)

Week 1: Introduction to Machine Learning

[Module details](#)

Module 1 • 7 hours to complete

Welcome to the Machine Learning Specialization! You're joining millions of others who have taken either this or the original course, which led to the founding of Coursera, and has helped millions of other learners, like you, take a look at the exciting world of machine learning!

What's included

20 videos 3 quizzes 2 app items 4 ungraded labs

Hide info about module content

20 videos • Total 146 minutes

Welcome to machine learning! • 2 minutes • [Preview module](#)

Applications of machine learning • 4 minutes

What is machine learning? • 5 minutes

Supervised learning part 1 • 6 minutes

Supervised learning part 2 • 7 minutes

Unsupervised learning part 1 • 8 minutes

Unsupervised learning part 2 • 3 minutes

Jupyter Notebooks • 4 minutes

Linear regression model part 1 • 10 minutes

Linear regression model part 2 • 6 minutes

Cost function formula • 9 minutes

Cost function intuition • 15 minutes

Visualizing the cost function • 8 minutes

Visualization examples • 6 minutes

Gradient descent • 8 minutes

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Implementing gradient descent • 9 minutes

Gradient descent intuition • 7 minutes

Learning rate • 9 minutes

Gradient descent for linear regression • 6 minutes


Running gradient descent • 5 minutes

 3 quizzes • Total 35 minutes

Practice quiz: Supervised vs unsupervised learning • 15 minutes


Practice quiz: Regression • 10 minutes

Practice quiz: Train the model with gradient descent • 10 minutes

 2 app items • Total 6 minutes

Intake Survey • 1 minute

[IMPORTANT] Have questions, issues or ideas? Join our Community! • 5 minutes

 4 ungraded labs • Total 240 minutes

Python and Jupyter Notebooks • 60 minutes

Optional lab: Model representation • 60 minutes

Optional lab: Cost function • 60 minutes

Optional lab: Gradient descent • 60 minutes






Week 2: Regression with multiple input variables

Module details 

Module 2 • 9 hours to complete

This week, you'll extend linear regression to handle multiple input features. You'll also learn some methods for improving your model's training and performance, such as vectorization, feature scaling, feature engineering and polynomial regression. At the end of the week, you'll get to practice implementing linear regression in code.

What's included

 10 videos  2 quizzes  1 programming assignment  5 ungraded labs Hide info about module content 10 videos • Total 66 minutes

Multiple features • 9 minutes • Preview module

Vectorization part 1 • 6 minutes

Vectorization part 2 • 6 minutes

Gradient descent for multiple linear regression • 7 minutes

Feature scaling part 1 • 6 minutes


Feature scaling part 2 • 7 minutes

Checking gradient descent for convergence • 5 minutes

Choosing the learning rate • 6 minutes

Feature engineering • 3 minutes


Polynomial regression • 5 minutes

 2 quizzes • Total 45 minutes


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Practice quiz: Multiple linear regression • 15 minutes

Practice quiz: Gradient descent in practice • 30 minutes

 1 programming assignment • Total 180 minutes

Week 2 practice lab: Linear regression • 180 minutes

 5 ungraded labs • Total 300 minutes

Optional lab: Python, NumPy and vectorization • 60 minutes

Optional Lab: Multiple linear regression • 60 minutes

Optional Lab: Feature scaling and learning rate • 60 minutes

Optional lab: Feature engineering and Polynomial regression • 60 minutes

Optional lab: Linear regression with scikit-learn • 60 minutes

Week 3: Classification

Module 3 • 16 hours to complete


Module details 

This week, you'll learn the other type of supervised learning, classification. You'll learn how to predict categories using the logistic regression model. You'll learn about the problem of overfitting, and how to handle this problem with a method called regularization. You'll get to practice implementing logistic regression with regularization at the end of this week!

What's included

 12 videos  2 readings  4 quizzes  1 programming assignment  9 ungraded labs

✓ **Hide info about module content**

 12 videos • Total 139 minutes

Motivations • 9 minutes • **Preview module**

Logistic regression • 9 minutes

Decision boundary • 10 minutes

Cost function for logistic regression • 11 minutes

Simplified Cost Function for Logistic Regression • 5 minutes

Gradient Descent Implementation • 6 minutes

The problem of overfitting • 11 minutes


Addressing overfitting • 8 minutes

Cost function with regularization • 9 minutes

Regularized linear regression • 8 minutes


Regularized logistic regression • 5 minutes

Andrew Ng and Fei-Fei Li on Human-Centered AI • 41 minutes

 2 readings • Total 4 minutes


[IMPORTANT] Reminder about end of access to Lab Notebooks • 2 minutes

Acknowledgments • 2 minutes


 4 quizzes • Total 120 minutes

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- 11/9/23, 11:54 AM
- Practice quiz: Classification with logistic regression • 30 minutes
- Practice quiz: Cost function for logistic regression • 30 minutes
- Practice quiz: Gradient descent for logistic regression • 30 minutes
- Practice quiz: The problem of overfitting • 30 minutes

 1 programming assignment • Total 180 minutes

Week 3 practice lab: logistic regression • 180 minutes

 9 ungraded labs • Total 540 minutes

Optional lab: Classification • 60 minutes


Optional lab: Sigmoid function and logistic regression • 60 minutes

Optional lab: Decision boundary • 60 minutes

Optional lab: Logistic loss • 60 minutes

Optional lab: Cost function for logistic regression • 60 minutes


Optional lab: Gradient descent for logistic regression • 60 minutes

 Optional lab: Logistic regression with scikit-learn • 60 minutes

Optional lab: Overfitting • 60 minutes

Optional lab: Regularization • 60 minutes

Instructors

Instructor ratings  5.0 ★ (5,819 ratings)



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Recommended if you're interested in Machine Learning

Recommended

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Unsupervised Learning, Recommenders, Reinforcement Learning



Home > Browse > Data Science > Data Analysis

32 IBM-Data Science



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Instructors: [Dr. Pooja](#) +12 more

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Starts Nov 9

Financial aid available

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Professional Certificate - 10 course series

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4.6 ★ (66,669 reviews)

Beginner level

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What you'll learn

- ✓ Master the most up-to-date practical skills and knowledge that data scientists use in their daily roles
- ✓ Import and clean data sets, analyze and visualize data, and build machine learning models and pipelines
- ✓ Learn the tools, languages, and libraries used by professional data scientists, including Python and SQL
- ✓ Apply your new skills to real-world projects and build a portfolio of data projects that showcase your proficiency to employers

Skills you'll gain

Data Science Methodology Deep Learning Machine Learning Github Python Programming Big Data Jupyter notebooks Data Mining

Rstudio SQL

Details to know

- Shareable certificate**
Add to your LinkedIn profile
- English**
Subtitles: English, Arabic, +22 more

coursera



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Share it on social media and in your performance review

Professional Certificate - 10 course series

Prepare for a career in the **high-growth field of data science**. In this program, you'll develop the skills, tools, and portfolio to have a competitive edge in the job market as an entry-level data scientist in as little as 5 months. No prior knowledge of computer science or programming languages is required.

Data science involves gathering, cleaning, organizing, and analyzing data with the goal of extracting helpful insights and predicting expected outcomes. The demand for skilled data scientists who can use data to tell compelling stories to inform business decisions has never been greater.

You'll learn in-demand skills used by professional data scientists including databases, data visualization, statistical analysis, predictive modeling, machine learning algorithms, and data mining. You'll also work with the latest languages, tools, and libraries including Python, SQL, Jupyter notebooks, Github, Rstudio, Pandas, Numpy, ScikitLearn, Matplotlib, and more.

Upon completing the full program, you will have built **a portfolio of data science projects** to provide you with the confidence to excel in your interviews. You will also receive access to join IBM's Talent Network where **you'll see job opportunities** as soon as they are posted, recommendations matched to your skills and interests, and tips and tricks to help you stand apart from the crowd.

This program is ACE® recommended—when you complete, you can earn up to 12 college credits.

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This Professional Certificate has a strong emphasis on applied learning and includes a series of hands-on labs in the IBM Cloud that give you practical skills with applicability to real jobs.

Tools you'll use: Jupyter / JupyterLab, GitHub, R Studio, and Watson Studio

Libraries you'll use: Pandas, NumPy, Matplotlib, Seaborn, Folium, ipython-sql, Scikit-learn, Scipy, etc.

Projects you'll complete:

- Extract and graph financial data with the Pandas Python library
- Use SQL to query census, crime, and school demographic data sets
- Wrangle data, graph plots, and create regression models to predict housing prices with data science Python libraries
- Create a dynamic Python dashboard to monitor, report, and improve US domestic flight reliability
- Apply and compare machine learning classification algorithms to predict whether a loan case will be paid off or not
- Train and compare machine learning models to predict if a space launch can reuse the first stage of a rocket

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What is Data Science?

Course 1 • 11 hours • **4.7** ★ (65,883 ratings)



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Data Science Methodology

Course 3 • 6 hours • **4.6** ★ (19,546 ratings)



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Python Project for Data Science

Course 5 • 8 hours • 4.5 ★ (3,668 ratings)



Databases and SQL for Data Science with Python

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Data Analysis with Python


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 **Machine Learning with Python**

Course 9 • 12 hours • 4.7 ★ (14,744 ratings)



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Instructors



Dr. Pooja

IBM

1 Course • 241,202 learners



Romeo Kienzler

IBM

10 Courses • 591,835 learners



Joseph Santarcangelo

IBM

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Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

3rd May. 2023

To,

The Principal,

VCET, Vasai

Subject Proposal for summer-23 intra Institutional Internship.

Respected sir,

As per our discussion about the Internship program, IIC is planning an internship program from 19th June 2023 to 30th June 2023. These offline internships are planned in our campus at Siemens center of excellence, Texas Instrument innovation lab, E -Yantra Robotic lab, Dept. of Computer Engineering and Dept. of AI &ML. Our students as well as outside students will be allowed for the internship. Detailed proposal is as follows,

Sr. No.	Facility	Internship Topics	Positions Available
1.	Siemens Center of Excellence	<ol style="list-style-type: none">1. PLC Basics: Need and benefit of automation, PLC system: applications of PLC, PLC modules, I/O module, Communication module, PID module2. PLC Functions: PLC registers, PLC timer function, PLC counter function, PLC simple arithmetic and logical functions, PLC ladder logic diagram, Advanced PLC functions, Sequencer function, Output analog and digital devices3. Engineering Software TIA Portal: Product Lifecycle Management, Digital Enterprise Suite, TIA Portal – Central Engineering Framework, Scope of the Products, Automation License Manager, TIA Portal: Portal View and Project View, Window Arrangement Saving a Project, Archiving / Retrieving a Project4. SIMATIC S7-1200 with STEP7 V15: System Overview, PLC Tags, Programming Blocks, Troubleshooting & Trace Functionality, Memory card binding, Web server with user defined Web Pages, PID block	20
2.	Texas Instruments Innovation Lab	<ol style="list-style-type: none">1. Microcontroller basics and programming fundamentals.<ol style="list-style-type: none">a) Arduino – 8-bit Microcontrollerb) MSP 430 Launch Pad – 16-bit Microcontrollerc) Tiva C launch pad – 32-bit Microcontroller2. Interfacing of Sensor, actuators with Microcontroller3. Communication Protocols4. Introduction to Internet of Things (IoT)5. Applications using Blynk and Things cloud	30

Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

3.	E-Yantra Robotics Lab	<ol style="list-style-type: none"> 1. Introduction to Fire Bird V robot 2. Introduction to AVR Micro-controller and Programming environment 3. Simple Motion Control using I/O ports 4. Robot velocity control using pulse width modulation 5. Introduction to LCD interfacing 6. Analog sensor interfacing using Analog to Digital conversion 7. Interrupt programming 8. Robot programming for white line following 9. Project-Application Development using Fire Bird Robot V- RESTAURANT ASSISTANT: ORDER TAKING ROBOT 	30
4.	Android Application Development using KOTLIN	<ol style="list-style-type: none"> 1. Introduction to Android and Android Architecture overview 2. Overview of Android App using Kotlin and Installation of Android Studio 3. User Interface and Getting Started 4. Introduction to Navigation Component, Architecture Component 5. Advanced Navigation Application Examples 	
5.	Web Development	<ol style="list-style-type: none"> 1. Client-side programming 2. HTML programming 3. Java script programming 4. Web system architecture 5. PHP programming 	
6.	Data Science	<ol style="list-style-type: none"> 1. Introduction to Data Science Fundamentals 2. Overview of Machine Learning 3. Overview of Statistical Learning 4. Supervised Vs Unsupervised Learning 5. Regression Vs Classification 6. Regression and Classification Models (Linear Regression, Logistic Regression, Naive Bayes, K-Nearest Neighbour) 7. Tree based Models (Random Forest) 8. Unsupervised Learning models 9. Data Visualization 10. Data Processing / Engineering 11. Implementing Machine Learning Models 12. Evaluating Learning Models 13. A minimum of 5-10 case studies 	
7.	Fiduciary Capital – Project Management and Finance	<ol style="list-style-type: none"> 1. Basic Principles of Accounting - Bookkeeping, how to read P&L statement, Balance Sheet, Cashflows, Etc. 2. Microeconomic and Macroeconomic Factors - Fiscal Policies, Monetary Policies, Balance of Payments of a Country, what is GDP, Indian Budget, etc. 	

Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

- | | | |
|--|---|--|
| | <p>3. Financial Statement Analysis - How to calculate the ratios of a company, Operating Statements, Accounting Statements, Management Statements, Company Cashflows, Money Measurement, going concern, Cost, etc.</p> <p>4. Risk Management & Corporate Finance - Understanding and calculating various risks, micro and macro risks, Risk Treatment, risk avoidance, Corporate Governance, Capital Finance, Capital Structure, Shareholders, Project Finance.</p> | |
|--|---|--|

Registration fees for our Institute students is 300 rupees and for outside students 600 rupees.
Please permit this such that I can plan accordingly.

Praful Patil

Prafulla Patil,
Coordinator, IIIC



To
Registration / Head
- Approved
[Signature]
2015123.



Vidyavardhini's College of Engineering and Technology
Department of Artificial Intelligence & Data Science

Academic Year 2022-23

Report on
Internship on Data Science

33_Training on
Data Science

Class: SE/TE

Date of Conduction: 12/06/2023 to 23/06/2023

Description:

An internship was conducted by the Department of Artificial Intelligence & Data Science, Industry Institute Interaction Cell of Vidyavardhini's College of Engineering and Technology in Association with TechCryptors for SE and TE students of various affiliated to University of Mumbai on 'Data Science'. The Internship was kept open for all the students.

A Total of 74 students of different branches of different engineering institutes of the Mumbai region attended the internship.

The internship was conducted using the following schedule,

Day	Time	Session	Topics
1	10 am – 12 pm	Theory Session – 1	Introduction to Data Science
	01 pm – 03 pm	Theory Session – 2	Introduction to Data Science
2	10 am – 12 pm	Theory Session – 3	Introduction to Statistical Learning
	01 pm – 03 pm	Theory Session – 4	Introduction to Statistical Learning
3	10 am – 12 pm	Theory Session – 5	Introduction to Machine Learning Supervised Vs Unsupervised Learning Regression Vs Classification Regression and Classification Models



Academic Year 2022-23

			Linear Regression (Measuring)
	01 pm – 03 pm	Theory Session – 6	Introduction to Machine Learning Classification Models Logistic Regression, Naive Bayes, K-Nearest Neighbour Support Vector Machine Classification Models Neural Network Tree Based ID3 Ensemble Approach Random Forest Unsupervised Learning Models
4	10 am – 12 pm	Practical Session – 1	Installation of Python Installation of IDE Basics of Python
	01 pm – 03 pm	Practical Session – 2	Working with Iris Dataset Packages – Numpy and Pandas Read from package, read from external, displaying data information



Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

Academic Year 2022-23

5	10 am – 12 pm	Practical Session – 3	Feature / Data Engineering Type of Data (Discrete and Continuous) Working with both type of data (Interchanging) Working with Missing values PCA
	01 pm – 03 pm	Practical Session – 4	Data Visualization using Matplotlib
6	10 am – 12 pm	Practical Session - 5	Data Visualization using Tableau
	01 pm – 03 pm	Practical Session – 6	Data Visualization using Tableau
7	10 am – 12 pm	Practical Session – 7	Working with Boston Dataset (Case Study – 1) Working with Iris Dataset (Case Study – 2)
	01 pm – 03 pm	Practical Session – 8	Wine Quality Classification (Case Study – 3)
8	10 am – 12 pm	Practical Session – 9	Walmart Sales Forecasting (Case Study – 5) Black Friday Sales (Case Study – 6)
	01 pm – 03 pm	Practical Session – 10	Text Mining Dataset (Case Study – 7) Human Activity Recognition (Case Study – 8)
9	10 am – 12 pm	Theory Session – 7	Introduction to Deep Learning
	01 pm – 03 pm	Practical Session – 11	Census Income (Case Study – 9)



Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

Academic Year 2022-23

10	10 am – 12 pm	Practical Session – 12 Test	Problem Statement (Case Study – 10)
	01 pm – 03 pm	Final Session	Valedictory

At the end of the internship the students were able to work on 10 case studies and have uploaded these case studies on their GitHub account. The list of GitHub accounts has been attached.

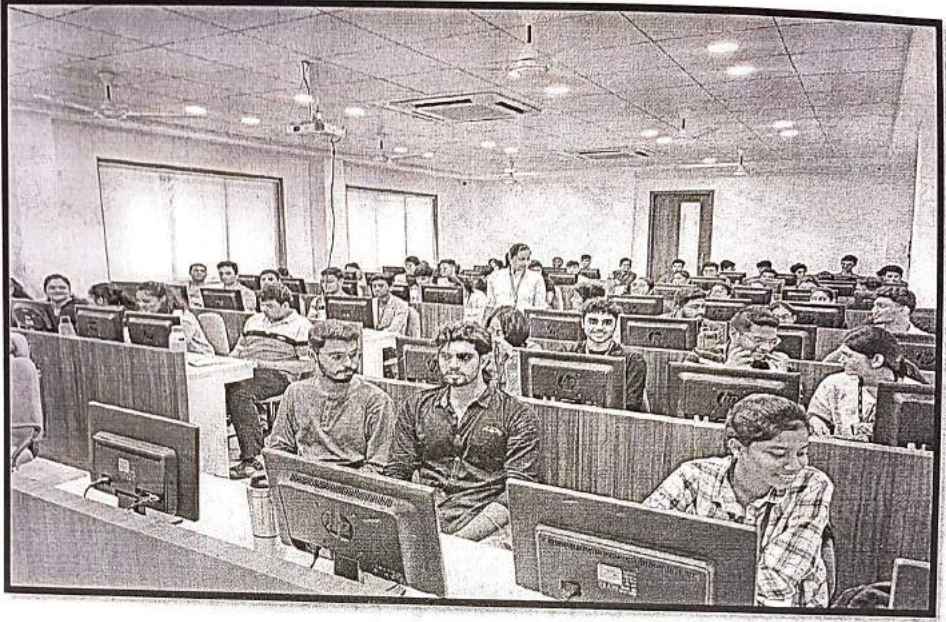
Prepared by

Dr. Tatwadarshi P. Nagarhalli





Academic Year 2022-23



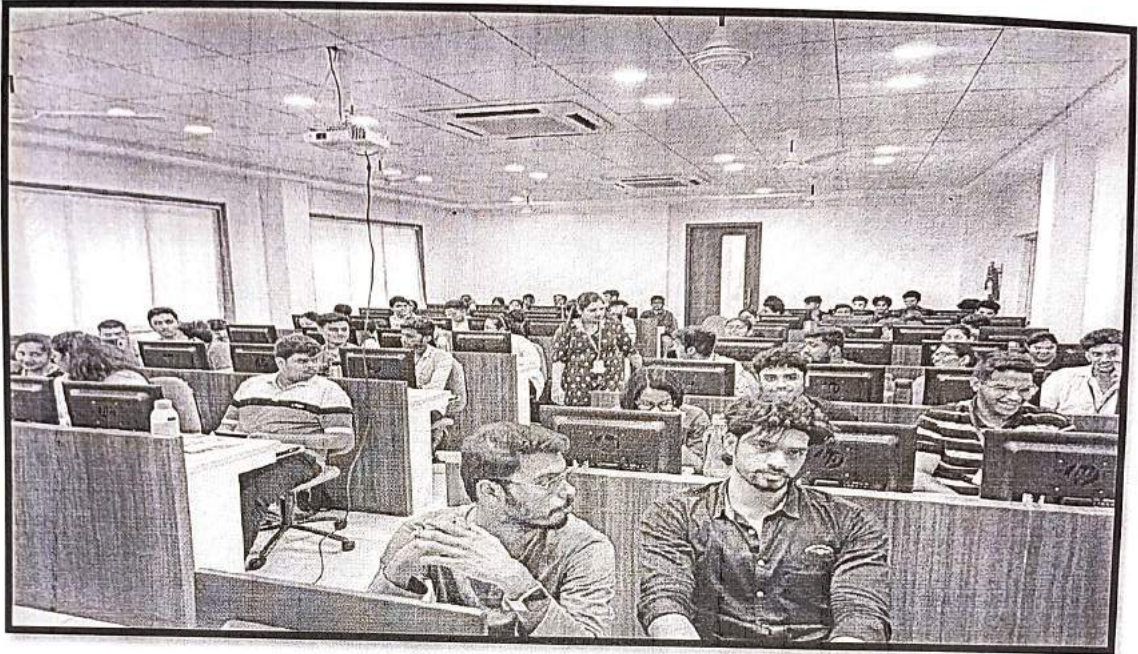
Introduction to Data Science



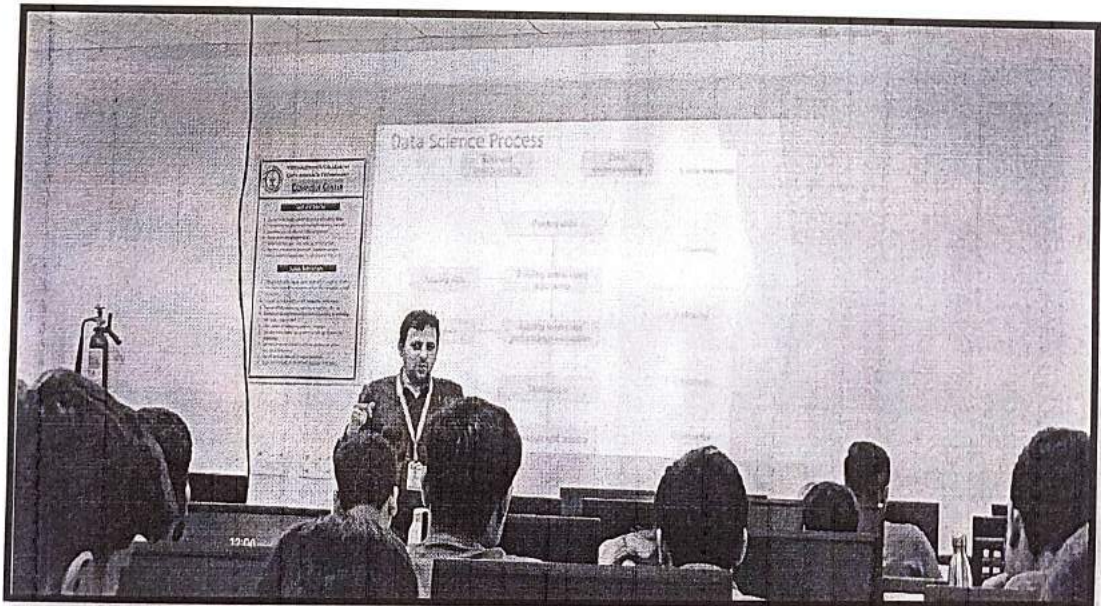
Data Science and its applications.



Academic Year 2022-23



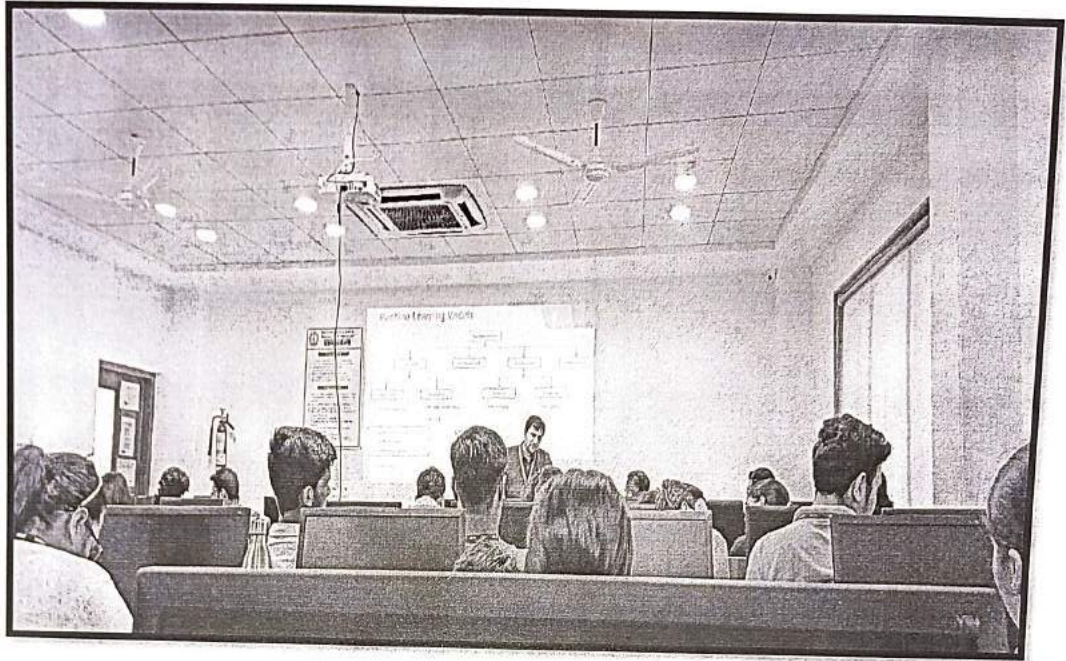
Introduction to Statistical Learning



Introduction to Machine Learning



Academic Year 2022-23



Installation to IDE and Working with Dataset

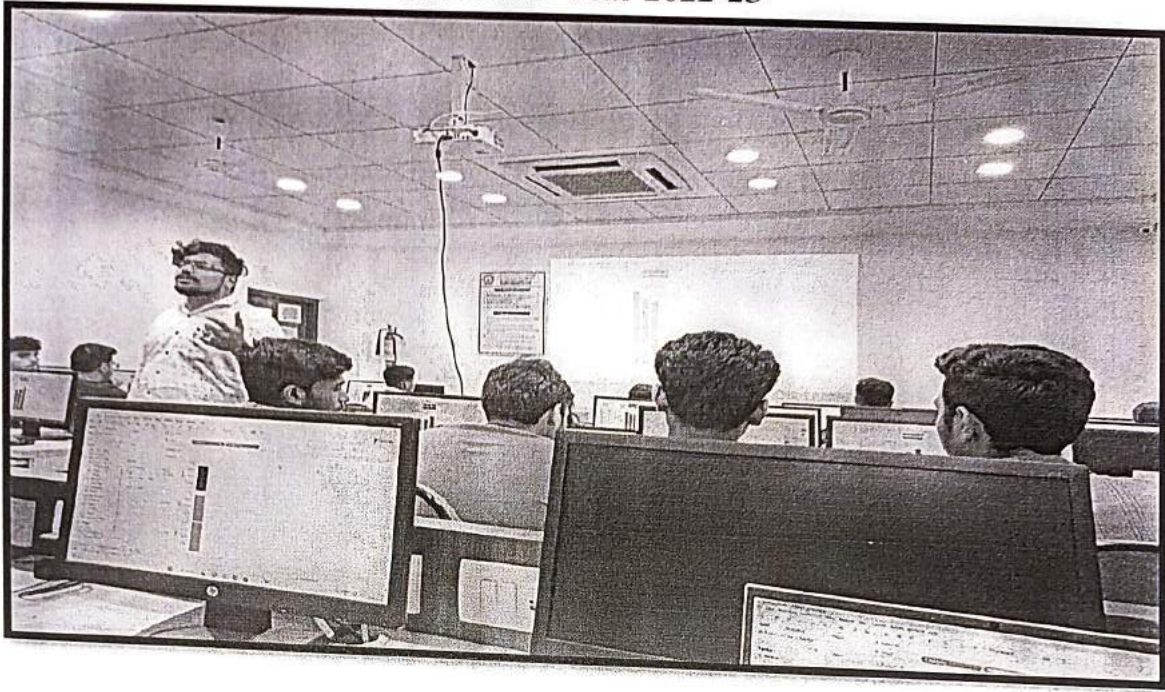


Data Visualization with Tableau



Vidyavardhini's College of Engineering and Technology
Department of Artificial Intelligence & Data Science

Academic Year 2022-23



Introduction to Deep Learning

Dr. Tatwadarshi P. N.
HoD , AI & DS



Mrs. Sneha M. Yadav
IIC Coordinator



Siemens PLC Programming at Siemens Center of Excellence

- Basics of PLC.
- Programming /Project Development.
- Ladder Logic Programming / Interpretation.
- Function Block Programming.

Vacancy Positions 20
 Registration Fees **Rs. 800/-**

Web Development

- Client side programming
- HTML programming
- Java script programming
- Web system architecture
- PHP programming

Vacancy Positions 30
 Registration Fees **Rs. 600/-**

Microcontroller Programming and Applications at Texas Instruments Innovation Lab

- Microcontroller basics and programming fundamentals.
- Arduino – 8-bit Microcontroller
- MSP 430 Launch Pad: 16-bit Microcontroller.
- Tiva C launch pad: 32-bit Microcontroller.
- Interfacing of Sensor, actuators with Microcontroller.
- Applications using Blynk and Things speak cloud.
- RSLK Robot Kit

Vacancy Positions 30
 Registration Fees **Rs. 600/-**

Fire Bird V robot Development at E-Yantra Robotics Lab

- Introduction to AVR Microcontroller and Programming environment.
- Analog sensor interfacing using Analog to Digital conversion.
- Robot programming for white line following
- Project-Application Development using Fire Bird Robot V-Restaurant Assistant: Order Taking Robot

Vacancy Positions 30
 Registration Fees **Rs. 600/-**

Luciary Capital Internship- Project Management and Finance

- Basic Principles of Accounting.
- MicroEconomic and Macroeconomic Factors.
- Financial Statement Analysis.
- Risk Management & Corporate Finance .

Vacancy Positions 30
 Registration Fees **Rs. 600/-**

Android Application Development using KOTLIN

- Introduction to Android and Android Architecture overview.
- Overview of Android App using Kotlin and Installation of Android Studio.
- User Interface and Getting Started .
- Introduction to Navigation Component, Architecture Component.
- Advanced Navigation Application Examples.

Vacancy Positions 40
 Registration Fees **Rs. 600/-**

Artificial Intelligence & Data Science Department Internship- Data Science

- Introduction to Data Science Fundamentals
- Overview of Statistical Learning
- Regression Vs Classification
- Implementing Machine Learning Models
- Overview of Machine Learning
- Supervised Vs Unsupervised Learning
- Data Processing / Engineering
- Evaluating Learning Models

Vacancy Positions 30 Registration Fees **Rs. 600/-**

[Signature]
 Dr. Tejaswanti N.
 MOD, A240

Internship Duration **12 June 2023 to 23 June 2023**

For Details Please Contact **7710070966**

for registration
https://docs.google.com/forms/d/e/1FAIpQLSeAYozTZOBUs8iumtZNIJZchNfd_3Y66ghss4zeuXzkbZWuUg/viewform?fbzx=-2421642304654749672



Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

Academic Year 2022-23

Internship on Data Science

Class: SE/TE

Date of Conduction: 12/06/2023 to 23/06/2023

Contents

Day	Time	Session	Topics
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	01 pm – 03 pm	Theory Session – 4	Introduction to Statistical Learning
3	10 am – 12 pm	Theory Session – 5	Introduction to Machine Learning Supervised Vs Unsupervised Learning Regression Vs Classification Regression and Classification Models Linear Regression (Measuring)
	01 pm – 03 pm	Theory Session – 6	Introduction to Machine Learning Classification Models Logistic Regression, Naive Bayes, K-Nearest Neighbour Support Vector Machine Classification Models Neural Network



Academic Year 2022-23

			Tree Based ID3 Ensemble Approach Random Forest Unsupervised Learning Models
4	10 am – 12 pm	Practical Session – 1	Installation of Python Installation of IDE Basics of Python
	01 pm – 03 pm	Practical Session – 2	Working with Iris Dataset Packages – Numpy and Pandas Read from package, read from external, displaying data information
5	10 am – 12 pm	Practical Session – 3	Feature / Data Engineering Type of Data (Discrete and Continuous) Working with both type of data (Interchanging) Working with Missing values PCA
	01 pm – 03 pm	Practical Session – 4	Data Visualization using Matplotlib
6	10 am – 12 pm	Practical Session - 5	Data Visualization using Tableau

Browse > Data Science > Machine Learning

DeepLearning.AI

Supervised Machine Learning: Regression and Classification

This course is part of [Machine Learning Specialization](#)

Taught in English | [8 languages available](#) | Some content may not be translated



Instructors: [Andrew Ng](#) +3 more

Top Instructor

Enroll for Free

Starts Nov 16

Financial aid available

475,930 already enrolled



Course

Gain insight into a topic and learn the fundamentals

4.9 ★ (14,887 reviews) | 98%

Beginner level

Recommended experience ⓘ

33 hours (approximately)

Flexible schedule

Learn at your own pace

[View course modules](#)

What you'll learn

- Build machine learning models in Python using popular machine learning libraries NumPy & scikit-learn
- ✓ Build & train supervised machine learning models for prediction & binary classification tasks, including linear regression & logistic regression

Skills you'll gain

- Regularization to Avoid Overfitting
- Gradient Descent
- Supervised Learning
- Linear Regression
- Logistic Regression for Classification

Details to know



Shareable certificate

Add to your LinkedIn profile



Assessments

9 quizzes



There are 3 modules in this course

COURSERA

In the first course of the Machine Learning Specialization, you will:

- Build machine learning models in Python using popular machine learning libraries NumPy and scikit-learn.
- Build and train supervised machine learning models for prediction and binary classification tasks, including linear regression and logistic regression

The Machine Learning Specialization is a foundational online program created in collaboration between DeepLearning.AI and Stanford Online. In this beginner-friendly program, you will learn the fundamentals of machine learning and how to use these techniques to build real-world AI applications.

This Specialization is taught by Andrew Ng, an AI visionary who has led critical research at Stanford University and groundbreaking work at Google Brain, Baidu, and Landing.AI to advance the AI field.

This 3-course Specialization is an updated and expanded version of Andrew's pioneering Machine Learning course, rated 4.9 out of 5 and taken by over 4.8 million learners since it launched in 2012.

It provides a broad introduction to modern machine learning, including supervised learning (multiple linear regression, logistic regression, neural networks, and decision trees), unsupervised learning (clustering, dimensionality reduction, recommender systems), and some of the best practices used in Silicon Valley for artificial intelligence and machine learning innovation (evaluating and tuning models, taking a data-centric approach to improving performance, and more.)

By the end of this Specialization, you will have mastered key concepts and gained the practical know-how to quickly and powerfully apply machine learning to challenging real-world problems. If you're looking to break into AI or build a career in machine learning, the new Machine Learning Specialization is the best place to start.

[Read more](#)

Week 1: Introduction to Machine Learning

[Module details](#) ^

Module 1 • 7 hours to complete

Welcome to the Machine Learning Specialization! You're joining millions of others who have taken either this or the original course, which led to the founding of Coursera, and has helped millions of other learners, like you, take a look at the exciting world of machine learning!

What's included

 20 videos  3 quizzes  2 app items  4 ungraded labs

[Show info about module content](#)





Week 2: Regression with multiple input variables

[Module details](#) ^

Module 2 • 9 hours to complete

This week, you'll extend linear regression to handle multiple input features. You'll also learn some methods for improving your model's training and performance, such as vectorization, feature scaling, feature engineering and polynomial regression. At the end of the week, you'll get to practice implementing linear regression in code.

What's included

 10 videos  2 quizzes  1 programming assignment  5 ungraded labs

[Show info about module content](#)

Week 3: Classification

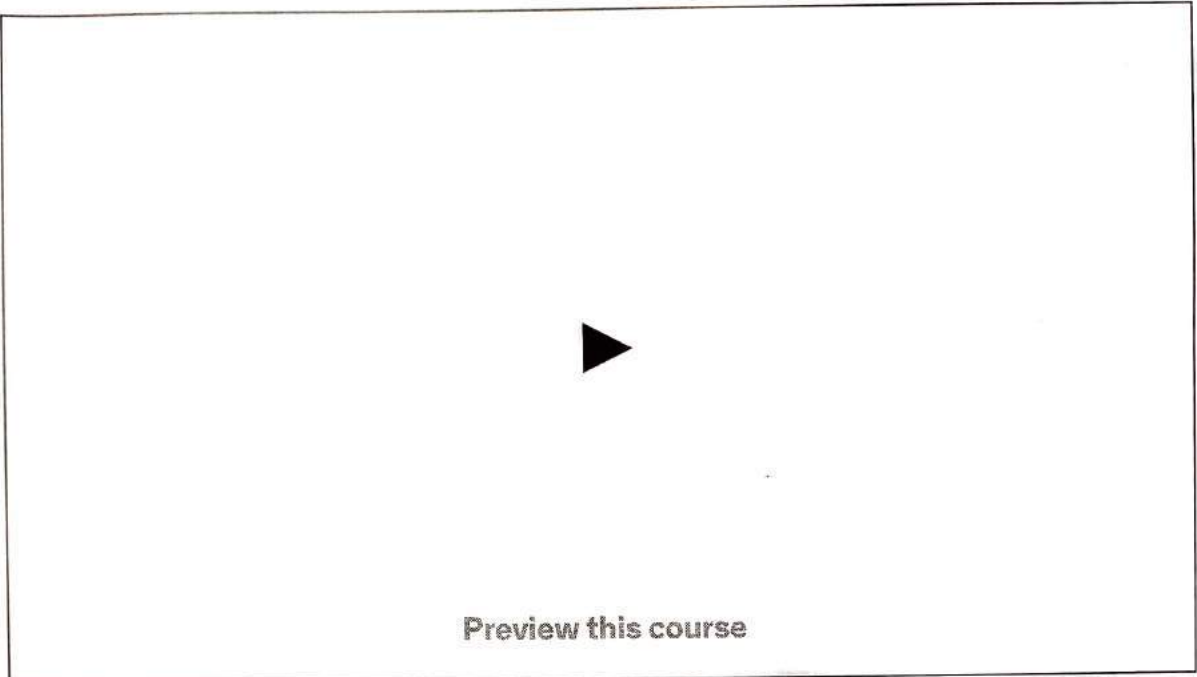
[Module details](#) ^

Module 3 • 16 hours to complete

This week, you'll learn the other type of supervised learning, classification. You'll learn how to predict categories using the logistic regression model. You'll learn about the problem of overfitting, and how to handle this problem with a method called regularization. You'll get to practice implementing logistic regression with regularization at the end of this week!

What's included

 12 videos  2 readings  4 quizzes  1 programming assignment  9 ungraded labs



Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus [2023]

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Personal

Teams

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 - ✓ Make accurate predictions
 - ✓ Make robust Machine Learning models
 - ✓ Use Machine Learning for personal purpose
 - ✓ Handle advanced techniques like Dimensionality Reduction
 - ✓ Have a great intuition of many Machine Learning models
 - ✓ Make powerful analysis
 - ✓ Create strong added value to your business
 - ✓ Handle specific topics like Reinforcement Learning, NLP and Deep Learning
 - ✓ Know which Machine Learning model to choose for each type of problem
- Show more** ▾
- ✓ Build an army of powerful Machine Learning models and know how to combine them to solve any problem

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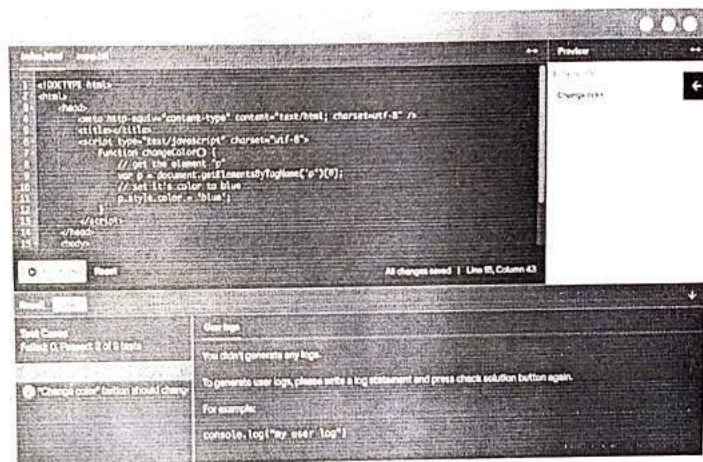
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Coding Exercises

This course includes our updated coding exercises so you can practice your skills as you learn.

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Course content

46 sections • 383 lectures • 42h 39m total length

[Expand all sections](#)

- ^ **Welcome to the course! Here we will help you get started in the best conditions.** 6 lectures • 19min
- 📄 Welcome Challenge! 02:39
- 📄 Machine Learning Demo - Get Excited! [Preview](#) 04:45
- 📄 Get all the Datasets, Codes and AI for you [Preview](#) 00:09
- 📄 How to use the ML A-Z folder & Google Colab 05:44

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Bestseller 4.5 (177,337 ratings)

Starting at ₹750 per month. Cancel anytime.

✓ Simple Linear Regression	16 lectures • 1hr 12min
✓ Multiple Linear Regression	25 lectures • 2hr 16min
✓ Polynomial Regression	20 lectures • 1hr 39min
✓ Support Vector Regression (SVR)	13 lectures • 1hr 3min
✓ Decision Tree Regression	10 lectures • 52min
✓ Random Forest Regression	6 lectures • 36min
✓ Evaluating Regression Models Performance	2 lectures • 10min
✓ Regression Model Selection in Python	8 lectures • 29min
✓ Regression Model Selection in R	3 lectures • 19min
✓ ----- Part 3: Classification ----- -----	2 lectures • 3min
✓ Logistic Regression	29 lectures • 1hr 55min
✓ K-Nearest Neighbors (K-NN)	7 lectures • 38min

Start subscription

Machine Learning A-Z

Bestseller 4.5 (177,337 ratings)

Starting at ₹750 per month. Cancel anytime.

- v
Evaluating Classification Models Performance
5 lectures • 30min

- v
----- **Part 4: Clustering** -----
1 lecture • 1min

- v
K-Means Clustering
17 lectures • 1hr 24min

- v
Hierarchical Clustering
15 lectures • 1hr 21min

- v
----- **Part 5: Association Rule Learning** ---

1 lecture • 1min

- v
Apriori
8 lectures • 2hr 10min

- v
Eclat
3 lectures • 28min

- v
----- **Part 6: Reinforcement Learning** -----

1 lecture • 1min

- v
Upper Confidence Bound (UCB)
13 lectures • 2hr 22min

- v
Thompson Sampling
9 lectures • 1hr 30min

- v
----- **Part 7: Natural Language
Processing** -----
25 lectures • 3hr 6min

Start subscription

Machine Learning A-Z™: AI, Python & TensorFlow

Bestseller 4.5 (177,337 ratings)

Starting at ₹750 per month. Cancel anytime.

- v **Linear Discriminant Analysis (LDA)** 3 lectures • 39min
- v **Kernel PCA** 2 lectures • 32min
- v ----- **Part 10: Model Selection & Boosting** 1 lecture • 1min

- v **Model Selection** 4 lectures • 1hr 13min
- v **XGBoost** 3 lectures • 34min
- v **Annex: Logistic Regression (Long Explanation)** 1 lecture • 17min
- v **Congratulations!! Don't forget your Bonus :)** 1 lecture • 1min

Requirements

- Just some high school mathematics level.

Description

Interested in the field of Machine Learning? Then this course is for you!

This course has been designed by a **Data Scientist** and a **Machine Learning expert** so that we can share our knowledge and help you learn complex theory, algorithms, and coding libraries in a simple way.

Start subscription

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- Part 4 - Clustering: K-Means, Hierarchical Clustering
- Part 5 - Association Rule Learning: Apriori, Eclat
- Part 6 - Reinforcement Learning: Upper Confidence Bound, Thompson Sampling
- Part 7 - Natural Language Processing: Bag-of-words model and algorithms for NLP
- Part 8 - Deep Learning: Artificial Neural Networks, Convolutional Neural Networks
- Part 9 - Dimensionality Reduction: PCA, LDA, Kernel PCA
- Part 10 - Model Selection & Boosting: k-fold Cross Validation, Parameter Tuning, Grid Search, XGBoost

Each section inside each part is independent. So you can either take the whole course from start to finish or you can jump right into any specific section and **learn what you need for your career right now.**

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Vidyavardhini College of Engineering and Technology, Vasai
Road (W)

36_Short Term
Training Program
on "Analysis &
Design of
Structures in E-
TABS"

Department of Civil Engineering

Date: 26/05/2023

To,
The Principal,
VCET, Vasai (W).

Sub: Proposal for conducting "One Week Short term training program (STTP) on
"Analysis and Design of Structures in ETABs Software".

Respected Sir,

The Department of Civil Engineering of VCET, Vasai (W) is planning to conduct a One Week Short term training program STTP on "Analysis and Design of Structures" in ETABs Software between 29th May to 3rd June 2023.

This STTP will be a value-added course for students. The expected audience for the said STTP will be BE and ME (Structures) students, faculty members, and Industry personnel. We request you to grant permission for the conduction of STTP.

Thank You

Viren
26/05/23

Prof. Viren Chandanshive
PG Coordinator

A. S. Radke

Dr. Ajay S Radke
HOD (Civil Engg Department)

Permitted
[Signature]
26/05/23



**Vidyavardhini College of Engineering and Technology, Vasai
Road (W)
Department of Civil Engineering
Academic Year 2022-23**

**A Report on
“One Week STTP on Analysis and Design of Structures in ETABS
Software”**

Duration: 29th May 2023 to 3rd June 2023

Department of Civil Engineering of Vidyavardhini's College of Engineering and Technology organized a One Week STTP on Analysis and Design of Structures in ETABS Software for B.E Civil & M.E Structure Students. Sessions were conducted on the Analysis and Design of Structures; also hands-on training was given to students on ETABS software.

About the STTP:

ETABS plays a significant role in civil engineering due to its importance in the design, analysis, and evaluation of building structures. ETABS allows civil engineers to perform advanced structural analysis of building systems. It can simulate the behaviour of structures under different loading conditions and accurately predict their response to forces such as gravity, wind, and earthquakes. This helps in ensuring the structural integrity and safety of buildings. ETABS provides powerful design capabilities that enable engineers to optimize the design of structural components. It automates the process of generating design loads, performing code-based design checks, and producing detailed design reports. This helps in producing efficient and cost-effective structural designs. This STTP will provide a deep insight into the Design of RCC (Reinforced Cement Concrete) Structures and Steel Structures in ETABS software. Also, the STTP will develop interest among the students in the field of Structural Design.



**Vidyavardhini College of Engineering and Technology, Vasai
Road (W)
Department of Civil Engineering
Academic Year 2022-23**

Following are the details of sessions conducted during the one-week STTP: -

Course Content and Schedule:

Time: 9 AM to 4 PM each day

Sr. No	Date	Description of Session	Name of Resource Person
1.	29 th May 2023	Introduction to Design and detailing of RCC Framed structures in Software.	Mr. Arbaz Kazi
2.	30 th May 2023	Modelling of RCC Framed Structure in ETABS.	Mr. Nikhil Gavad
3.	31 st May 2023	Design of RCC Framed Structure in ETABS	Mr. Nikhil Gavad
4.	1 st June 2023	Detailing of RCC Framed structure designed in ETABS	Mr. Ravindra Muke
5.	2 nd June 2023	Introduction to Design and Detailing of Steel Structures in Software	Mr. Ravindra Muke
6.	5 th June 2023	Design and Detailing of Steel Structures in ETABS	Mr. Ravindra Muke

Day	Description
Day 1	<p>Topic: Introduction to Design and detailing of RCC Framed structures in Software.</p> <p>A Session on drafting the actual building plan was conducted so that the students get to learn about drawing plans in AutoCAD. The session included introduction of various commands used for drafting, detailing of an actual building plan in AutoCAD, Structural planning of that plan to assign Beam, columns and footings.</p> <p>In the second session students were introduced to Design of RCC Framed Structures, theories of design, Detailing of the designed RCC framed structure and various Softwares available for design. Dr. Ajay S Radke, HOD Civil Engineering</p>



**Vidyavardhinis College of Engineering and Technology, Vasai
Road (W)
Department of Civil Engineering
Academic Year 2022-23**

	Department added important points related to Analysis of Building and Materials used for construction.
--	--

Day	Description
Day 2	<p>Topic: Modelling of RCC Framed Structure in ETABS.</p> <p>This session included a detailed training on design of RCC framed structure. Students were introduced to ETABS software that is used for design. Design and detailing of an actual building were done in this session. The building frame was drafted in AutoCAD in the previous session and imported in ETABS for Modelling. Students were made aware of various tools, loads, sections, materials and Analysis of the Building Frame. After analysis of the building frame the SFD and BMD of the Frame were studied.</p>

Day	Description
Day 3	<p>Topic: Design of RCC Framed Structure in ETABS</p> <p>This session mainly focused on the Design of RCC Framed Structure that was modelled in the previous sessions. The Structural elements that were analysed for different types of loads were designed for different types of Sections assigned in the software. After the Design part the students were made aware of checking the design and revising the elements that failed in the design. Also, the students were introduced to various documentation work necessary for Structural design and execution work. Students were given an insight on use of IS 456:2000 design code based on which the design was done. They also studied various clauses necessary for design of RCC Frame structures.</p>



Vidyavardhini College of Engineering and Technology, Vasai
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Academic Year 2022-23

Day	Description
Day 4	<p>Topic: Detailing of RCC Framed structure designed in ETABS.</p> <p>After Designing an RCC Building frame the next necessary stage is to prepare detailed report of the design for execution. In this session students were introduced to the detailing part of the designed structural elements. Students were given an insight about IS 13920 for detailing of RCC Building frame. Also, students were given training on earthquake resistant design of Building frame in ETABS.</p>

Day	Description
Day 5	<p>Topic: Introduction to Design and Detailing of Steel Structures in Software</p> <p>This session highlighted the design of Steel Structures and philosophies of it. In this session an Industrial Shed was modelled in ETABS and assignment of loads. Structural planning of the industrial steel structure was also explained to the students. Various sections used in steel shed design were introduced to the students.</p>

Day	Description
Day 6	<p>Topic: Design and Detailing of Steel Structures in ETABS</p> <p>This session was based on Design of the modelled Industrial steel shed in the previous session. All the requirements of the design, load combinations, design check were highlighted in this session. After the design part, detailing of the structural elements and report generation were explained.</p> <p>In the afternoon session students were introduced to earthquake analysis of Industrial steel shed and Wind load assignment.</p>



**Vidyavardhini College of Engineering and Technology, Vasai
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Department of Civil Engineering
Academic Year 2022-23**



Inauguration of STTP by Dr. Ashutosh Dabli



Use of AutoCAD for Structural Drafting



**Vidyavardhini College of Engineering and Technology, Vasai
Road (W)
Department of Civil Engineering
Academic Year 2022-23**



Expert delivering session on RCC Design using E-TABS



Students preparing structural drawing for importing in E-TABS



Vidyavardhini's College of Engineering and Technology, Vasai
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Department of Civil Engineering
Academic Year 2022-23



Expert explaining the fundamentals of RCC Design to Students

A. S. Rade

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Vasai Road (W)- 401202.





Assessment Method

At the end of the Short-Term Training Program on “Analysis and Design of Structures in ETABs Software”, the students will have to complete the project on “Design of Steel Truss using E-TABs”. On successful completion. Students shall be awarded certificates on the successful completion of the project & submission of feedback for the program.

Project Question:

Design an Industrial Structure containing Steel Roof Trusses. Consider the following data:

1. Loading Criteria:

The Structure is subjected to Dead load, Live Load (3 kN/m^2), and Wind Load (2 kN/m^2).

2. Material Specifications:

Use Fe 500 grade of steel for all the sections to be designed for the Truss

3. Geometric Parameters:

- Span: 14 m
- Height of the Truss: 8 m
- Type of the truss: Double Howe type truss
- Rise of the truss: 3 m
- No. of Storeys: one
- No. of Bays: 5

4. Analysis Process:

General process of structural analysis for a roof truss conforming to IS 800:2007 in ETABs. To evaluate what are the critical internal forces and reactions at the joints that must be determined during the analysis.

5. Member Design:

Designing individual truss members (chords, webs, diagonals) as per IS 800:2007. Also, address factors like buckling, shear, and bending in member design.

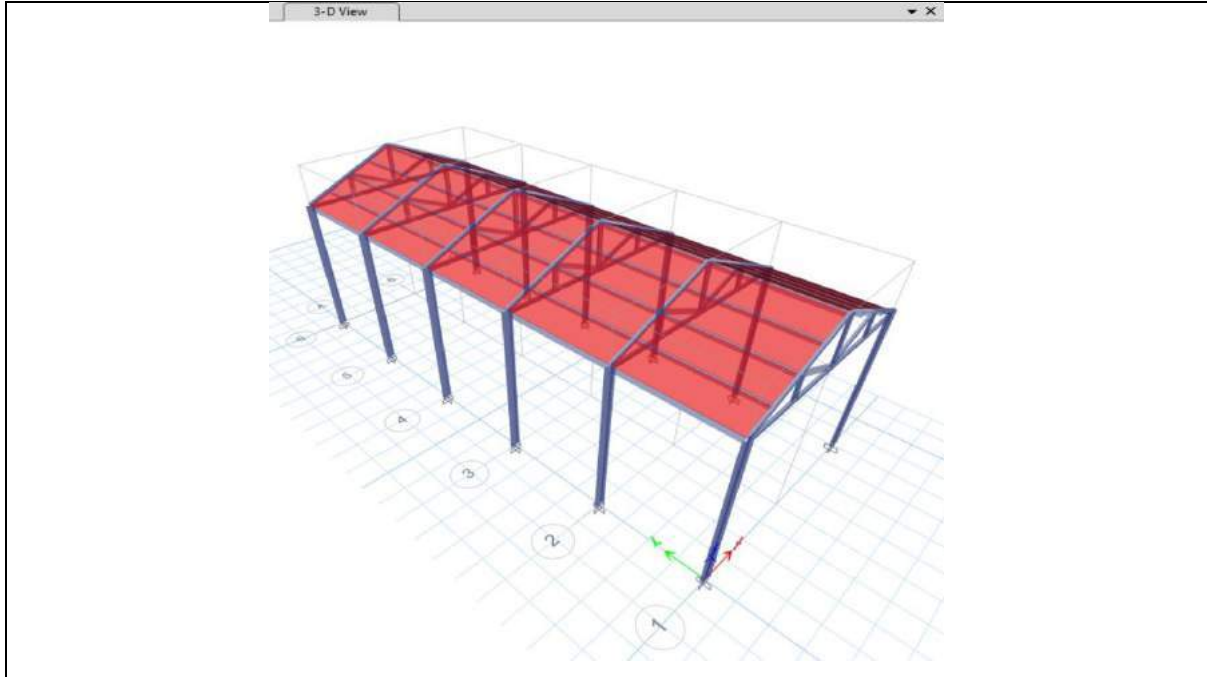


Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2022-23

Work Submitted by Student:



3D modelling of Designed Roof Truss in E-TAB's

Output Case	Case Type	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m	X m	Y m	Z m
Dead	LinStatic	0	0	171.5539	1715.5391	-686.2156	0	0	0	0
Live	LinStatic	0	0	74.7741	747.7411	-299.0965	0	0	0	0
Wind	LinStatic	-78	0	-36	-360	-168	780	0	0	0
DL+WL	Combination	0	0	369.492	3694.9204	-1477.9681	0	0	0	0
DL+LL	Combination	0	0	369.492	3694.9204	-1477.9681	0	0	0	0
DL+LL+WL	Combination	-93.6	0	252.3936	2523.9363	-1383.9745	936	0	0	0
DStIS1	Combination	0	0	257.3309	2573.3087	-1029.3235	0	0	0	0
DStIS2	Combination	0	0	369.492	3694.9204	-1477.9681	0	0	0	0
DStIS3	Combination	-46.8	0	273.9936	2739.9363	-1283.1745	468	0	0	0
DStIS4	Combination	46.8	0	317.1936	3171.9363	-1081.5745	-468	0	0	0
DStIS5	Combination	-93.6	0	252.3936	2523.9363	-1383.9745	936	0	0	0
DStIS6	Combination	93.6	0	338.7936	3387.9363	-980.7745	-936	0	0	0
DStIS7	Combination	-117	0	203.3309	2033.3087	-1281.3235	1170	0	0	0
DStIS8	Combination	117	0	311.3309	3113.3087	-777.3235	-1170	0	0	0
DStIS9	Combination	-117	0	100.3985	1003.9852	-869.5941	1170	0	0	0
DStIS10	Combination	117	0	208.3985	2083.9852	-365.5941	-1170	0	0	0
DStID1	Combination	0	0	171.5539	1715.5391	-686.2156	0	0	0	0
DStID2	Combination	0	0	246.328	2463.2802	-985.3121	0	0	0	0

Analysis of Reactions for the Structure obtained from E-TAB's

Prepared by: Krupesh Devalikar (ME Civil) – 22-23

A. R. Rade

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Department of Civil Engineering

Date: 17/01/2023

37_Student
Development
Program on
Developments in
Structural
Engineering

To,
The Principal,
VCET, Vasai (W).

Sub: Proposal for "6 Days' Student Development Program" (SDP) on
"Developments in Structural Engineering".

Respected Sir,

We The Department of Civil Engineering propose to organize a 6 Days' Student development program on "Developments in Structural Engineering", which will be considered a value-added course for students. The SDP will be beneficial to the students of Civil Engineering Department, who wish to pursue career in Structural Engineering field.


The resource persons details or the student development program are as follows,


Date of session and duration	Resource Person	Topic
3 rd Feb 2023	Prof. P R Barbude	Professional Practices in Structural Engineering
4 th Feb 2023	Prof. Nilesh Lende	Technical Writing and Presentation
5 th Feb 2023	Prof. P V Mule	Need of Earthquake Resisting Structures
10 th Feb 2023	Prof. S A Rasal	Application of Prestressed Concrete
11 th Feb 2023	Dr. A S Radke	Repairs and Retrofitting of RCC Structures
12 th Feb 2023	Prof. J B Chougale	Software Applications in Design of Multistorey RCC Structures


Proposed Schedule of Student development program: Dates : 3rd Feb, 4th Feb, 5th Feb, 10th Feb, 11th Feb 2023 and 12th Feb 2023 Time : 10am to 12 noon and 1.00 pm to 4.00 pm.

We request you to kindly grant us the permission.

Thanking You,


Jaydeep Chougale
Program Coordinator


Dr. Ajay Radke
H.O.D. Civil

To
Registrar
for Permitted.

17/01/23



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

K.T MARG VASAI (WEST)

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23

Date:

A Report on

“6 days Student Development Program (SDP) on developments in Structural Engineering” for B.E Civil & M.E Structure Students.

Department of Civil Engineering of Vidyavardhini's college of Engineering and Technology organized a 6 days Student Development Program (SDP) on developments in Structural Engineering” for B.E Civil & M.E Structure Students. A guest lectures were conducted on various different topics on each by various professional industrial experts as follows: -

Day: 1

Date: 3rd Feb,2023.

Time: 10:00 am to 12:00 pm & 1:00 pm to 4:00 pm

Topic: “Professional Practices in Structural Engineering” for B.E Civil & M.E Structure Students.

Department of Civil Engineering of Vidyavardhini's college of Engineering and Technology organized a Lecture on “Professional Practices in Structural Engineering” on 3rd February 2023 was delivered by Prof. P. R. Barbude. The lecture included the importance of understanding client requirements, following IS codes and standards, and efficient project management. He also highlighted the need for good communication skills and ethical practices in the field of structural engineering.



Expert addressing students about Professional practices followed in the field.

Overall, the lecture was informative and thought-provoking, providing valuable insights to the students. The lecture was well-received by the audience and received positive feedback from students.

Day: 2**Date:** 4th Feb,2023.**Time:** 10:00 am to 12:00 pm & 1:00 pm to 4:00 pm**Topic: “Technical Writing and Presentation” for B.E Civil & M.E Structure Students.**

On 4th February 2023, Prof. Nilesh Lende delivered an informative lecture on "Technical Writing and Presentation" to the students of the Department of Civil Engineering of Vidyavardhini's college of Engineering and Technology. The lecture aim was to improve the technical writing and presentation skills of the students, which are essential skills for professionals in the field of engineering.

Prof. Nilesh Lende began by discussing the importance of clear and concise writing, highlighting the need for accurate documentation and effective communication. He also introduced students about various known writing formats like IEEE & APA for research paper.

Overall, the lecture was engaging and informative, providing attendees with valuable insights into the essential skills required for technical writing and presentation. A vote of thanks was given by Jaydeep Chougale of Civil Engineering Department and also valuable feedback of the students was collected at the end of the seminar.

Day: 3**Date:** 5th Feb,2023.**Time:** 10:00 am to 12:00 pm & 1:00 pm to 4:00 pm**Topic: “Need of Earthquake Resisting Structures” for B.E Civil & M.E Structure Students.**

On 5th February 2023, Prof. P. V. Mule delivered a guest lecture on " Need of Earthquake Resisting Structures" to the students of the Department of Civil Engineering of Vidyavardhini's college of Engineering and Technology. The lecture highlighted the importance of building structures that can withstand the devastating impact of earthquakes. Prof. P. V. Mule emphasized the need for proper design by using IS Codes 1893:2015 part-I and 13920:2016 for design of structures. He also highlighted the use of advanced technologies and materials for construction like use of various types of shear walls and dampers.

The lecture was informative and thought provoking, and it provided the students better understanding of importance of earthquake resisting structures. The lecture was later concluded by giving a voted of thanks by Prof. Nikhil Gavad of Civil Engineering Department and also valuable feedback was given by students.

Day: 4**Date:** 10th Feb,2023.**Time:** 10:00 am to 12:00 pm & 1:00 pm to 4:00 pm**Topic: “Application of Prestressed Concrete” for B.E Civil & M.E Structure Students.**

Department of Civil Engineering of Vidyavardhini’s college of Engineering and Technology organized a Guest Lecture on “Application of Prestressed Concrete” on 10th February 2023 was delivered by Prof. S A Rasal. The lecture focused on the principles and applications of prestressed concrete in modern construction. Prof. Rasal highlighted the advantages of using prestressed concrete over traditional reinforced concrete, including its higher ability to withstand higher loads and resist cracking. He also discussed various methods used for prestressed concrete like pre-tensioning and post-tensioning.

Overall, the lecture was a valuable addition to the field of civil engineering and lecture was concluded by vote of thanks given by Prof. Ashutosh Dabli of Civil Engineering Department and valuable feedback by students.

Day: 5**Date:** 11th Feb,2023.**Time:** 10:00 am to 12:00 pm & 1:00 pm to 4:00 pm**Topic: “Repairs and Retrofitting of RCC Structures” for B.E Civil & M.E Structure Students.**

On 11th February 2023, Dr. A. S. Radke delivered an informative guest lecture on Repairs and Retrofitting of RCC Structures to the students of the Department of Civil Engineering of Vidyavardhini’s college of Engineering and Technology. Dr. Radke began by discussing the common causes of deterioration in reinforced concrete structures and the need for repairs and retrofitting. He emphasized the importance of timely repairs and maintenance to ensure the safety & serviceability of the buildings and infrastructure. The lecture covered the various methods of repairs and retrofitting of RCC structures, including epoxy injection, jacketing, and carbon fiber reinforcement. Dr. Radke explained the pros and cons of each method and shared examples of successful repairs and retrofitting projects.



Expert delivering session on Repairs && Retrofitting of Projects

Overall, the lecture was informative and insightful, providing students with valuable insights into the methods and techniques used in repairs and retrofitting of RCC structures. The students & faculty appreciated the practical advice and guidance provided by Dr. A. S. Radke, and the lecture received positive feedback from students. Lastly, the lecture was concluded giving a vote of thanks by Prof. Vikrant Kothari of Civil Engineering Department and valuable feedback by students.

Day: 6

Date: 12th Feb,2023.

Time: 10:00 am to 12:00 pm & 1:00 pm to 4:00 pm

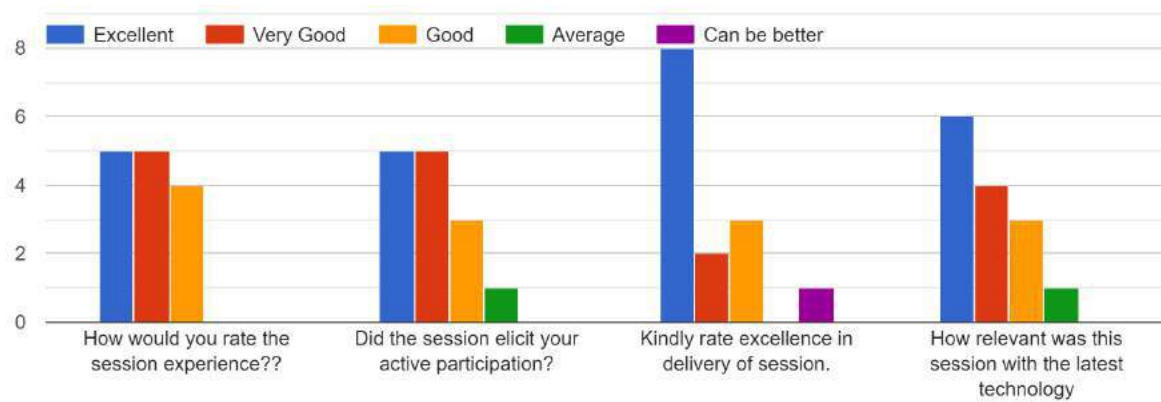
Topic: “Software Applications in Design of Multi-storey RCC Structures” for B.E Civil & M.E Structure Students.

On 12th February 2023, Prof. J B Chougale delivered an enlightening guest lecture on "Software Applications in Design of Multi-storey RCC Structures" at the Vidyavardhini's college of Engineering and Technology. The lecture was attended by students and faculty from the Civil Engineering department. The importance of software applications in the design of multi-storey RCC structures was the first topic Prof. Chougale addressed. He emphasized the need for precise and efficient software tools to assist civil engineers in designing complex structures. The lecture covered the various software applications used in the design of multi-storey RCC structures, including ETABS, SAFE, STAAD PRO, Tekla and SAP2000. Prof. Chougale provided examples of successful projects that made use of these software tools as well as an explanation of the features and capabilities of each software.

Overall, the lecture was a valuable addition to the field of civil engineering and lecture was concluded by vote of thanks given by Prof. Viren Chandanshive of Civil Engineering Department and valuable feedback by students.

Feedback

Kindly fill the following feedback which would allow us to improve . Pick the response from one of the categories mentioned below:



As Raskhe
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Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2022-23

Student Development Program (SDP) on “Developments in Structural Engineering”

Schedule

Sr. No	Session Details	Time
1	Professional Practices in Structural Engineering	10:00 am to 12:00 pm & 1:00 pm to 4:00 pm
2	Technical Writing and Presentation	10:00 am to 12:00 pm & 1:00 pm to 4:00 pm
3	Need of Earthquake Resisting Structures	10:00 am to 12:00 pm & 1:00 pm to 4:00 pm
4	Application of Prestressed Concrete	10:00 am to 12:00 pm & 1:00 pm to 4:00 pm
5	Repairs and Retrofitting of RCC Structures	10:00 am to 12:00 pm & 1:00 pm to 4:00 pm
6	Software Applications in Design of Multi-storey RCC Structures	10:00 am to 12:00 pm & 1:00 pm to 4:00 pm

A. S. Raskhe

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Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2022-23

Student Development Program (SDP) on “Developments in Structural Engineering”

Syllabus

Sr. No	Topic
1	Professional Practices in Structural Engineering: Education and Licensing, Codes and Standards, Ethical Considerations, Risk Assessment, Collaboration, Documentation and Reporting, Legal compliance.
2	Technical Writing and Presentation: Importance, Editing & Proof Reading, Use of Technical Tools, Structural Arrangement, Body language.
3	Need of Earthquake Resisting Structures: Introduction, Types of earthquakes resisting structures, codal provisions etc.
4	Application of Prestressed Concrete: Introduction, Application for the construction of Bridges, Tanks & Silos, Tunnels, Retaining walls, Buildings, Offshore structure, Nuclear Containment etc.
5	Repairs and Retrofitting of RCC Structures: Identification of Damage, Surface Repairs, Crack Repair, Corrosion Control, Structural Strengthening, Seismic Retrofitting, Upgrading Foundation, Upgrading Building Systems, Post-Repair and Retrofit Monitoring, Regular Maintenance
6	Software Applications in Design of Multi-storey RCC Structures: Application of software like ETABS, SAFE, STAAD PRO, Tekla and SAP2000 for Analysis and Design of Structure.

A. S. Radhe

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Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2022-23

Assessment Method

At the end of the Student Development Program (SDP) on “Developments in Structural Engineering”, the students will be awarded certificate after successfully completing the quiz test followed by the feedback.

Quiz for SDP on "Developments in Civil Engineering"

Email *

varunsane98@gmail.com

Name of Student

Varun Pradeep Sane

ID No.

Which of the following is statically determinate structure?

1 point

- a) Two hinged arch
- b) Fixed beam
- c) Double overhanging
- d) Continuous beam

- A
- B
- C
- D



Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2022-23

IS 1893-2002 gives details on:

1 point

- a) Seismic strengthening
- b) Improving earthquake resistance
- c) Earthquake resistance structures
- d) Earthquake resistance design

- A
- B
- C
- D

Which of the following methods of structural analysis is a force method?

1 point

- a) three moment equation
- b) slope deflection method
- c) column analogy method
- d) moment distribution method

- A
- B
- C
- D



Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2022-23

Which type of maintenance work is taken to prevent a wear or decay of building? 1 point

- a) Preventive maintenance
- b) Remedial maintenance
- c) Day to day maintenance
- d) Special maintenance

- A
- B
- C
- D

How many parts does IS code 875 contain? 1 point

- a) 5
- b) 6
- c) 7
- d) 8

- A
- B
- C
- D

This form was created inside of vidyavardhini's college of engineering and technology.

Google Forms

A. S. Radke

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▶ 3 Demo videos inside
Features Bundle #2 ▲
📄 5 Topics
<ul style="list-style-type: none">• Module Introduction• Equations and Mirroring• End Condition and Multibody Parts• Feature's Scope and Rib• Conclusion
Design Tables and Configurations ▼
📄 4 Topics
Assemblies Advanced Mates ▼
📄 4 Topics
▶ 1 Demo video inside
Assemblies Deep-Dive ▼
📄 5 Topics
Final Project ▼
📄 1 Topic

Your teacher



Tayseer Almattar

SOLIDWORKS specialist, Founder of TforDesign and Ideabee Design co-chair.

10+ years of experience as a designer in different industries. Has taught 15,000+ students across the globe and has also authored a book on SOLIDWORKS.

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Reviews from students

AVERAGE RATINGS

4.3 ★★★★★

5.0 ★★★★★


It was a nice experience learning new mates, assemblies, and designing different parts. It also helped me in attaining the CSWP Certificate. All the concepts were easy to understand. Thanks Internshala!



Yatik Shah



Other in-demand trainings




8 weeks

Web Development

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Advanced SOLIDWORKS Training FAQs

[Training Prerequisites](#)[Time & Mode of Delivery](#)[Placement Assistance](#)[P](#)

Q. What software/tools would be needed for the training and how can I get them? +

Q. Do I need to have a laptop or desktop to do the training or can I do it on mobile too? +

Q. What system configuration is needed to do this training? +

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39_SolidWorks
basic Course,
Prolific 3D Learn

(<https://www.prolificdelhi.com/>)

SOLID WORKS



PROLIFIC

SOLIDWORKS

SOLIDWORKS IS USED TO DEVELOP MECHATRONICS SYSTEMS FROM BEGINNING TO END. AT THE INITIAL STAGE, THE SOFTWARE IS USED FOR PLANNING, VISUAL IDEATION, MODELING, FEASIBILITY ASSESSMENT, PROTOTYPING, AND PROJECT MANAGEMENT.

+91-9891740056 www.prolificdelhi.com

The graphic features a blue background with a central illustration of a computer monitor displaying a 3D mechanical model of gears. Surrounding the monitor are various mechanical components like gears, a caliper, and a ruler. The Prolific logo is in the top left, and social media icons for Facebook, LinkedIn, and Instagram are on the left side.

How to Prepare Solid Works in Noida

If you are planning to become a Solidworks engineer, but do not know how to prepare for the exam, you can get help from a solidworks training institute in Noida. These institutes are equipped with high-quality teaching staff, state-of-the-art infrastructure, and modern study material. They offer excellent training at affordable prices. You can also avail of hostel facilities if you wish. The average cost of the training institute in Noida is , including free study material and video training. In addition to this, there are lab guides and exam preparation materials. You can avail of one-to-one attention and access to a dedicated trainer, which is very useful in enhancing your knowledge of complex technical concepts. You can also pay the fee using cash, credit card, debit card, net banking, or credit card.

Prolific Automation

If you are looking for the best SOLIDWORKS training in Noida, then look no further than Prolific Automation. It is the No. 1 training provider in Noida since the last decade, providing custom-designed training solutions. Prolific Automation is a registered training provider with 15 years of industry experience and has well-equipped training

facilities and labs. It has experienced SOLIDWORKS trainers with real-world experience who can help you learn the fundamentals of SOLIDWORKS.

The training course at Prolific Automation includes 50+ advanced technologies, and a team of trained technicians. Students are continually mentored, coached, and guided by skilled instructors. This personal attention helps students develop solid, industry-specific knowledge. A course at Prolific Automation can be taken multiple times, giving you the best chance to complete it in one go. And because Prolific Automation is accredited by various organizations and certification bodies, you can be confident that the training you receive is top-notch.

Prolific Automation

If you are looking for a job in the IT sector, then the Prolific training in Noida can help you get there. They have a team of experienced trainers who have been managing steady ventures for 15 years. This helps them to offer the most up-to-date training in the field. Their training is 100% job-oriented and gives students hands-on experience and industry exposure.

Prolific provides industrial training in 300+ technology domains. The instructors are well-versed in Oracle, MySQL, PHP, SAP, and many other technologies. They also offer flexible batch schedules so that students can attend classes at their own time. There is no specific requirement for a particular batch date. In addition, all students are guaranteed individual attention from the trainers. Learning from industry professionals and gaining practical experience is a top priority at Prolific.



Online training

If you are looking for a solid works Online training in Noida, you have come to the right place. Prolific Automation is a leading professional development institute offering SOLIDWORKS training in Noida. They are ISO 9001:2015 certified and provide SOLIDWORKS training that is practical, hands-on, and career-oriented. Prolific has several branches in Noida with well-equipped labs and training facilities. Their trained professionals are experienced in their field, with anywhere from five to fifteen years of experience. They provide extensive practice sessions and encourage their students to use the labs.

Apart from online training, solidworks students can choose onsite training or remote training. The latter includes both in-class and remote live sessions. The former includes the option to study at a customer's location in Noida. In-person training is also offered by NobleProg, if you live in the area. Besides, you can customize your training according to your requirements. By completing the training, you will receive free study material and lifetime support.

Placement assistance

One of the most popular training institutes offering SOLIDWORKS courses in Noida is Prolific. Prolific Automation focuses on practical SOLIDWORKS training in Noida. The institute also offers placement assistance to students who complete the course. Whether you are fresher or an experienced professional, Prolific can provide you with quality training, placement assistance, and industry-oriented study materials.

Prolific Noida provides the best training in Noida with industry-standard curriculum and comprehensive job placement assistance. This training institute provides a unique blend of academic learning and hands-on exercises, which turn naive students into thorough professionals. Apart from this, students can also opt for placement assistance, which will help them secure an interview at an MNC. Here, you can also join other courses that complement your course and get a good job opportunity.

Prolific Solid Works Institute In Noida

There are many benefits of joining Prolific Solid Works Institute In Noida. Apart from offering advanced and specialized training in Solidworks, the institute offers numerous study materials. Your tuition fee will be affordable, and the institute customizes the training program to suit your needs and schedule. The courses offered by Prolific Solid Works Institute In Noida are suitable for both freshers and working professionals.

In case you are new to this technology, you can start with a solidworks certification course. The training course is meant to help you understand the implementation process and the methodologies that you can apply to make the best use of Solidworks. After you graduate, you can continue to expand your career with Cloud computing, using the solidworks certification course. The training course duration varies from 12 days to six months, but most training institutes will cover the following topics in their course syllabus:

SolidWorks certification is an advanced-level software that is widely used in manufacturing and engineering. This program is a 3-D computer-aided engineering (CAD) program that is used by more than 130,000 organizations worldwide. It is also used by 1.3 million engineers and designers. In Noida, Croma Campus is a leading SolidWorks institute that offers comprehensive training in this popular technology. You can take advantage of the Institute's life-time support and study material to help you succeed in the course.



The quality of teaching is a major benefit of the AutoCAD training classes in Noida. Apart from AutoCAD, these institutes also provide training in other courses. Teachers are supportive and experienced, and provide quality content and practical knowledge to students. The institute boasts of several alumni and is highly rated by many professionals. This means that it's worth checking out the institute for its excellent autoCAD training classes.

In addition, students can choose to attend the AutoCAD Institute in Noida if they are interested in learning the most advanced course in the field. Apart from quality training, teachers at the institute have years of experience in the software development industry. Students are given individual attention and guidance throughout the course. This is essential in this field of study, as you'll be relying on these professionals to advance your career.

Prolific Training is one of the best AutoCAD training institutes in Noida, with advanced infrastructure and lab support. With the help of its certified trainers, thousands of students have learned how to use AutoCAD in the industry. Students can take advantage of 100% placement assistance, customized training, and flexible schedules. They can choose from daytime classes, evening classes, and fast-track training programs. The institute also employs expert trainers with years of industry experience.

SolidWorks Syllabus Total Duration : 75 Hour

Session 1

Introduction to CAD, CAE, PDM

Features of SolidWorks,

Various products available in SolidWorks for Product Design, Simulation, Communication

SolidWorks Graphical User Interface – Feature manager design

tree, Callouts, Handles, Confirmation corner, mouse buttons, keyboard shortcuts, Command Manager, Hardware and Software requirements, SolidWorks Task Scheduler, SolidWorks Rx.

Session 2

SKETCHER

Sketch Entities – Inference line, Centerline line, Line, Circle, Arc, Ellipse, Rectangle, Slots, Polygon, Parabola, Ellipse, Partial Ellipse,

- f Spline, Spline tools, Spline on surface, Equation driven curve,**
- 🕒 Points,**
- 📏 Text, Construction geometry, Snap, grid,**

Session 3

Sketch Tools – Fillet, Chamfer, Offset, Convert entities, Intersection

curve, Face curve, Trim, Extend, Split, Jog Line, Construction Geometry, Mirror, Dynamic Mirror, Move, Copy, Rotate, Scale, Stretch, Sketch pattern , Polygon, Make path, Close Sketch To Model,

Sketch picture, Check Sketch for Feature, Area hatch/Fill

Blocks – Make block, Edit block, Insert block, Add/Remove Entities,

Rebuild, Save, Explode

Relations – Adding Sketch Relation, Automatic relations,

Dimensioning – Smart, Horizontal, Vertical, Ordinate, Horizontal ordinate, Vertical ordinate, Align ordinate, Fully define sketch.

Sketch

Diagnosis, SketchXpert, 3D Sketching, Rapid Sketch

Session 4

PART MODELING

Part Modeling Tools

Creating reference planes

Creating Extrude features – Direction1, Direction2, From option, Thin feature, Applying draft, Selecting contours

Creating Revolve features – Selecting Axis, Thin features, Selecting contours

Creating Swept features-Selecting, Profile and Path,

Orientation/twist type, Path Alignment, Guide Curves, Start/End tangency, Thin feature



Session 5

Creating Loft features – Selecting Profiles, Guide curves, Start/End

Constraints, Centerline parameters, Sketch tools, Close loft. Selecting geometries – Selection Manager, Multiple Body concepts

Creating Reference – points, axis, coordinates

Session 6

Creating curves –

Split curve, Project curve, Composite curve, Curve through points,

Helix and Spiral

Creating Fillet features

Inserting Hole types

Session 7

Creating Chamfer

Creating Shell

Creating Rib

Creating Pattern – Linear pattern, Circular pattern, Sketch driven pattern, Curve driven pattern, Table driven pattern, Fill pattern, mirror

Advanced Modeling Tools- Dome, Free form, Shape feature, Deform, indent, Flex

Session 8



Inserting Fastening features- Mounting boss, snap hook, Snap hook

groove, Vent

Environment & Utilities – Working with views and manipulating views, Trouble shooting

Inserting Library feature, Adding Configuration, Inserting Design

table, System options, Measuring Geometries, Calculating Mass Properties, Feature Statistics, Working With Equations

Session 9

ASSEMBLY MODELING

Assembly Modeling Tools

Introduction to Assembly Modeling & Approaches – Top down and Bottom up approach

Applying Standard Mates- Coincident, Parallel, Perpendicular, Tangent, Concentric, Lock, Distance, Angle.

Session 10

Applying Advanced Mates – Symmetric, Width, Path Mate, Linear/Linear Coupler, Limit Mate.

Applying Mechanical Mates – Cam, Hinge, Gear, Rack Pinion, Screw, Universal Joint.

Applying Smart mates

Applying Mate reference

Session 11

Manipulating Components – Replacing Components, Rotating Components, Move Components, Collision Detection, Physical Dynamics, Dynamic Clearance, Detecting Interference



Creating Pattern – Assembly Pattern, Mirror

Creating Explode Views

Top Down Design – Layout Sketch, Work Part In the Context of an

assembly.

Smart Components, Smart Fasteners, Physical Simulation

Session 12

SURFACE MODELING

Surface Modeling tools

Creating Extrude, Revolve, Swept, loft, Boundary surface.

Inserting Planar Surface, Offset Surface, Radiate Surface.

Extending a surface, Surface fill, Ruled Surface, Trimming Surface,

Mid surface, Replace Face, Delete face, Untrim surface, Knit surface,

Thickening a Surface, Move Face

Session 13

DRAFTING

Generating Drawing Views

Introduction To Angle Of Projection

Generating Views – Generating Model View, Projected Views, Inserting Standard 3 View

View creation relative to model, Inserting predefined views, empty

views, Auxiliary Views, Detailed Views, Crop view, Broken –Out

Section, Broken Views, Section View, Aligned Section View,

Alternate Position View, Working assembly specific view,

Drawing

properties, Manipulating views



Session 14

Creating Dimensions – Smart, Horizontal, Vertical, Baseline, Ordinate, Horizontal Ordinate, Vertical Ordinate, Chamfer, Attach

Dimensions, Align Collinear/Radial, Align Parallel/Concentric,

Model Dimensions, Auto dimension, DimXpert, Annotations,

Spell

check

Session 15

Inserting Annotations – Datum Features, Geometric Tolerance, Surface Finish, Jog Leaders, Hole Callout, Datum Target, Dowel Pins,

Area Hatch, Cosmetic Thread, Balloon, Centre Mark, Centre Lines, Layers, Working With Tables, Bill Of Materials, Hole Table, Sheets And Templates, Sheet Format.

Session 16

SHEET METAL

Sheet Metal Design

Concepts in Sheet metal design bend allowance bend deduction,

Kfactor

Inserting Base Flange, Sheet Metal Tab, Edge Flange, Miter Flange,

Hem, Jog.

Creating Break Corner/Corner Trim, Closed Corners, Rip.

Inserting Sketched Bend, Fold/Unfold, Forming Tools.

Inserting Cross Break, Welded Corner.

Adding Corner Trim, Lofted Trim

Conversion Of Solid Body To Sheet Metal.

Working with import data – Importing In SolidWorks, Editing Imported Features, Feature Recognition, 2d To 3d Conversion

Session 17

PRODUCT DATA MANAGEMENT

Product Data Management

Introduction to PDM, LAN, WAN, Server, client, user, administrator,

advantages of using PDM vault admin. How to log in to PDM Vault

Admin? About vault settings, Creating new group, user and accessing rights, PDM data storage, setting up revision schemes

Session 18

Creating new project, Check In/Check Out of a new document, viewing the configurations, How to Check In associated files, viewing document information, Check In documents to vault from local disk, adding notes to the document. How to change document to other group? Archive/Restore a document, Delete/Rollback a document.

Session 19

Attaching non SolidWorks document, How to switch vault to other user? How to customize display of a Vault? How to do bulk Check In? How to make a project archive? How to copy a project? How to assign lifecycle status to a component? How to add property to a document? How to add standard libraries to a vault? About global settings

Session 20

PHOTOWORKS

PhotoWorks

Introduction to PhotoWorks, How to render model in PhotoWorks

Studio? How to render specified area? How to save image to a specified file? How to edit scenery? How to apply background and

base? Scene editor, How to apply material and decal? How to set

camera and lights? Render options

Session 21

f WELDMENT DESIGN

🕒 Weldment Design

📷 Introduction to Weldment, 3D sketch, How to create user defined

profile for structural member? How to insert structural member? How

to apply gusset and fillet bead? How to insert end cap?

Extruded

Boss/Base, Trim/Extend, mirror, placing holes, using different structural members, Weldment cut list

Session 22

MOLD DESIGN

MOLD DESIGN

Introduction of Mold, type of mold design, how to used draft analysis,

undercut analysis, parting line analysis, parting line, shut off, parting

surface, tool split, core.

Session 23

23 DATA MIGRATION

Session 24

23 DATA EDITING

Session 25

SIMULATION EXPRESS

- 📌 **Stress or static analysis calculates the displacements, strains, and stresses in a part**
- 📌 **based on material, fixtures, and loads. A material fails when the stress reaches a certain level. Different materials fail at different stress levels.**
- 📌 **SimulationXpress uses linear static analysis, based on the Finite Element Method, to calculate stresses. Linear static analysis makes several assumptions to calculate stresses in the part.**





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Duration
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Courseware Issued

AutoCAD for Mechanical Engineers
Reference Guide

- Introduction to engineering drawings and AutoCAD
- Drafting basic geometry shapes in AutoCAD
- Modifying drawings in AutoCAD
- Layer management
- Hatching and gradient technics
- Isometric drawings
- Dimensioning and Tolerancing
- Parametric drawing
- Blocks and attributes
- External reference (Xref) concepts
- Object linking and embedding (ole) concepts
- Plot and publish
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- Advanced drafting using AutoCAD Mechanical
- Mechanical features drawing
- Drafting assemblies
- Tutorials and projects



Course on 2D Drafting

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ZWCAD



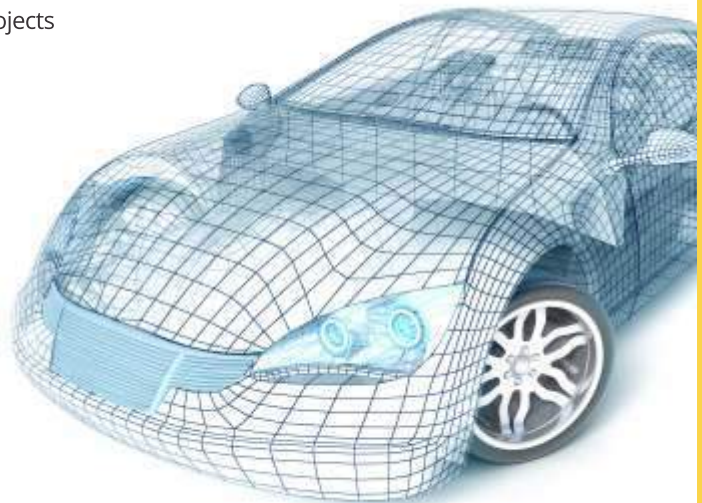
Duration
60 Hours



Courseware Issued

- AutoCAD 2D for Mechanical Engineers Reference Guide
- ZWCAD

- Introduction to engineering drawings and AutoCAD
- Drafting basic geometry shapes in AutoCAD
- Modifying drawings in AutoCAD
- Layer management
- Hatching and gradient technics
- Dimensioning and Tolerancing
- Parametric drawing
- Blocks and attributes
- Xref, OLE concepts
- Plot and publish
- Tutorials and projects



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Introduction to Research

By Prof. Prathap Haridoss | IIT Madras

Learners enrolled: 5154

Introduction to Research



Large numbers of students are actively considering and taking up research and associated higher studies. This course aims to introduce students to the important aspects of research. The intent of the course is to make students aware of the details associated with formal research and to help students overcome common misconceptions that may be present in their minds. By going through this course, students are likely to be able to take up research activities in a more systematic and formal manner right from the beginning.

INTENDED AUDIENCE : Students of ME/MTech/MS/MSc/PhD can benefit.

PRE-REQUISITES : Students who have completed undergraduate studies (in Engineering or Science) will be in a better position to benefit from this course

Summary



(<https://swayam.gov.in/>)



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Course Status : About Swayam (<https://swayam.gov.in/about>) | All Courses | ()

Course Type : Elective

Duration : 8 weeks

Category :

- Multidisciplinary
- Faculty Domain - Fundamental

Credit Points : 2

Level : Postgraduate

Start Date : 15 Feb 2021

End Date : 09 Apr 2021

Enrollment Ends : 15 Feb 2021

Exam Date : 25 Apr 2021 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_ge03%2Fpreview&title=Introduction%20to%20Research%20-%20Course)

Course layout

Week 1 : A group discussion on what is research; Overview of research;

Week 2 : Literature survey , Experimental skills;

Week 3 : Data analysis, Modelling skills;

Week 4 : Technical writing; Technical Presentations; Creativity in Research

Week 5 : Creativity in Research; Group discussion on Ethics in Research

Week 6 : Design of Experiments

Week 7 : Intellectual Property

Week 8 : Department specific research discussions

Books and



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Instructor bio



Prof. Prathap Haridoss

IIT Madras

Prof. Prathap Haridoss is a Professor in the Department of Metallurgical and Materials Engineering at IIT Madras. He works in the areas of Fuel Cell and Carbon nanomaterials. He has a B.Tech in Metallurgical Engineering from IIT Madras, and a PhD in Materials Science and Engineering from the University of Wisconsin-Madison, USA. Before he joined as a faculty at IIT Madras, he served as a Senior Scientist at Plug Power, a Fuel Cell company in New York. He has 3 US patents, several International Journal publications, and has published a book titled "Physics of Materials, Essential Concepts of Solid State Physics"

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **25 April 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Madras. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certific (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)

Once again, thanks for your interest in our online courses and certification. Happy learning. ()

- NPTEL team



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Affiliated to the University of Mumbai.

42_Texas Summer
Internship on
MSP430

Academic Year 2021/2022.

Title of Event: Texas Summer Internship on MSP430

Date: 20th June, 2022 to 30th June, 2022

Time: 9am to 4pm.

Venue: Vcet Campus.

No. of ^{student} Staff Present: 21.

Faculty Incharge

HOD



VCET TEXAS INSTRUMENTS INNOVATION LAB

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Website : www.vcet.edu.in

INTERNSHIP SCHEDULE

5th August 2022

Time: 10:00AM to 5:00PM

Date	Topics	Resource Person
DAY 1 05/08/2022	Introduction to Embedded Systems Acquaintance with MicroController Introduction to STM32 Hands-on on STM32 GPIO Switch/Push Button UART communication	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 2 05/08/2022	Hands-on on STM32 ADC Readings I2C Communication Project Comprising all above learnt together	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 3 06/08/2022	Introduction to Embedded System Importance of C Language Fundamentals of Embedded C Data Types Primary User Defined Enum TypeDef Derived Pointer Array Structure Union PreProcessors	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 4 06/08/2022	Macros Object PreDefined	Mr. Rajas Patil (Embedded Software Engineer, Faurecia)

	Function Volatile Libraries Compiler	Clarion Electronics.)
DAY 5 06/08/2022	Understanding Practicals Reading Datasheet and Reference Manuals (Also in Practicals) BitWise Operations GPIO Communication Protocols UART I2C ADC Using Debugger (Also in Practicals)	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)
DAY 6 06/08/2022	Operating Systems SPI CAN Introduction to kernel Data Structures Object Oriented Concepts and Programming Interview Preparations	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics.)



VCET TEXAS INSTRUMENTS INNOVATION LAB

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY
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Website : www.vcet.edu.in

Program	Texas Instruments Innovation Laboratory Internship
Date	12/12/2022 - 23/12/2022
In association with	Texas Instruments Innovation Laboratory
Faculty	Mrs. Shaista Khanam Mrs. Trupti Shah Ms. Ekta Naik Dr. Archana Ekbote Mrs. Kanchan Sarmalkar
Days	<p>Day 1</p> <ol style="list-style-type: none">1. VCET Texas Instruments Innovation Lab internship included sessions on lab introduction, PWM pins, IoT, and embedded systems, and a quiz on embedded systems and IoT.2. Session 1 featured an introduction to the lab and practical activities like controlling LEDs with an LDR and interfacing a Bluetooth module.3. The day also covered IoT concepts and benefits.4. Dr. Archana Ekbote conducted sessions on microprocessors, microcontrollers, and Arduino fundamentals. <p>Day 2</p> <ol style="list-style-type: none">1. Day 2 of the VCET Texas Instruments Innovation Lab internship had two sessions in the Texas Lab.2. Session 1, led by Dr. Archana Ekbote, focused on Pulse Width Modulation (PWM) and analog output, demonstrating LED fading using the analogWrite() function.3. Session 2, conducted by Prof. Kanchan Sarmalkar, covered sensor overviews and hands-on activities, including Light Dependent Resistor (LDR) and Ultrasonic sensor interfacing with Arduino, along with LCD interfacing.4. Students received practical knowledge and appreciated the informative sessions.5. Day 2 marked the conclusion of the internship program for the day.



VCET TEXAS INSTRUMENTS INNOVATION LAB

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Tel.: 0250-2338234 (6 Lines) Fax : 0250 - 2339486 Email : vcet_inbox@vcet.edu.in

Website : www.vcet.edu.in

Day 3

1. Day 3 of the internship at VCET Texas Instruments Innovation Lab featured two hands-on sessions in the Texas Lab.
2. In Session 1, Ms. Ekta Naik guided students in controlling LEDs with Light Dependent Resistors (LDRs), interfacing Bluetooth modules (HC-05) with Arduino, and using DHT11 temperature and humidity sensors with Arduino.
3. Session 2, led by Ms. Ekta Naik, covered an overview of MSP-430, a 16-bit mixed-signal microcontroller. The practical activities included blinking onboard LEDs, addressing modes, and interfacing external and RGB LEDs with MSP-430.
4. Energia IDE was used for programming, and the session concluded with the successful implementation of LED fading with MSP-430.

Day 4

1. Day 4 of the internship at VCET Texas Instruments Innovation Lab included two informative sessions in the Texas Lab.
2. Session 1, conducted by Mr. Kushal Raut, focused on introducing the Internet of Things (IoT), explaining its concepts and applications.
3. Mr. Raut discussed the role of IoT in collecting and sharing data from connected devices, highlighting its benefits to society.
4. Session 2, led by Mr. Sarvesh Sant, covered the practical use of Thingspeak for IoT applications, including creating Thingspeak accounts, channels, and API keys.
5. The day concluded with positive feedback from the participants, marking the end of the internship program's fourth day.

Day 5

1. Day 4 of the internship at VCET Texas Instruments Innovation Lab included two informative sessions in the Texas Lab.
2. In Session 1, students used LDR, Ultrasonic sensor using MSP430, explaining its concepts and applications.
3. Session 2, students used LM35, Motor and LCD and analyzed the components .
4. Both sessions received a positive response from participants, concluding the activities of Day 5

Day 6

1. Day 6 of the Texas internship at Vidyavardhini's College of Engineering and Technology featured two significant sessions in the Texas Lab.
2. Session 1, led by Sarvesh Sant and Kimaya Shejwalkar, introduced participants to Thingspeak, an IoT analytics platform for visualizing and analyzing live data streams. Practical demonstrations included data visualization from a DHT11 sensor, with insights into sending alerts and data manipulation in Thingspeak.
3. Session 2, led by Ms. Shaista Khanam, covered IoT concepts and architecture, including



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computer terminology such as IP and TCP/IP models. Practical implementations involved displaying IP addresses with Tiva C using a CC3100 Wi-Fi module and creating a webpage with buttons to control onboard LEDs. Another practical application included reading analog values from a potentiometer on a web server.

4. Both sessions received a positive response from participants, concluding the activities of Day 6.

Day 7

1. Day 7 of the program at the Texas Lab featured multiple sessions focused on Tiva C Launchpad and IoT.
2. Session 1 introduced the Tiva C Launchpad, highlighting its features and applications for IoT, such as connectivity with internet and WiFi modules.
3. Session 2 explored the architecture of Tiva C, with discussions on ADC bits, differences between microprocessors and microcontrollers, and the benefits of using protocols.
4. Session 3 delved into the Launchpad's diagram, digital read and write capabilities, and the connection of additional sensors, including the CC 3100 WiFi module.
5. The later sessions covered topics like IoT components, IP addresses, WiFi connectivity, and web server tasks, concluding the day's activities.

Day 8

1. Day 8 of the Texas Internship at Vidyavardhini's College of Engineering and Technology featured an expert lecture on the MSP430 microcontroller conducted via Google Meet.
2. Mr. Kushal Nesarkar, an experienced Embedded System Engineer, was the speaker. He has expertise in various aspects of microcontrollers, DSP, and Texas Instruments software, having worked at EdGate Technologies Pvt Ltd.
3. The lecture covered MSP430 features, pin diagrams, block diagrams, clock systems, programming language, practical LED implementation, pull-up and pull-down registers, and topics like interrupts, timers, and pulse width modulation.
4. Mr. Nesarkar's extensive experience in training and projects related to wireless communication, memory units, IoT, and communication protocols was highlighted.
5. The session concluded with interactive questionnaire sessions, providing valuable insights into MSP430 and embedded systems.

Day 9

1. On June 30, 2022, at 9:30 am, Day 9 of the internship in the Texas Lab began with a project implementation session.
2. Mr. Sunil Katkar and Mr. Kamlesh Bachkar conducted the session, where students worked on projects they had chosen.
3. The topics were selected to provide knowledge and had future potential for further student exploration.
4. The session concluded with interactive discussions among the participants.

Day 10



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	<ol style="list-style-type: none"> Day 10 of the internship featured a project implementation session in the Texas Lab from 09:40 am to 11:30 am. Mr. Sunil Katkar and Mr. Kamlesh Bachkar conducted the session, guiding the participants in their project work. Participants were tasked with creating project videos and capturing images to document their progress. The session concluded with participants actively engaged in building and researching their projects.
Description	In June 2022, the Texas Lab hosted a session led by Dr. Archana Ekbote and Ms. Kanchan Saramlekar, aiming to introduce the VCET Texas Instruments Innovation Lab. It commenced promptly at 9:35 AM, offering an overview of the lab's objectives, kits, and activities. Participants learned about an array of kits, from Ultra Low Power to Digital Signal Processors and Robotics. The engaging presentation included highlights of past events like the "Drishti Online Contest" and training sessions in "Embedded Systems and IoT." The session concluded with images depicting the lab's inauguration in 2019 and memorable moments from various TI Labs events, leaving attendees inspired and eager to explore this innovative world further.
Objectives of VNPS	<p>The objectives of MSP430 workshop are:</p> <ol style="list-style-type: none"> Introduce VCET Texas Instruments Innovation Lab and its applications. Familiarize participants with the lab's various fields of study and available kits. Highlight past activities and events of TI Labs, promoting engagement. Showcase the lab's history, including its inauguration, to inspire participants to actively engage with its resources.
Organizing Committee	<p>Mrs. Shaista Khanam</p> <p>Mrs. Trupti Shah</p> <p>Ms. Ekta Naik</p> <p>Dr. Archana Ekbote</p> <p>Mrs. Kanchan Sarmalkar</p>
Participation Details	21
Outcomes of workshop	<ol style="list-style-type: none"> Introduction to VCET Texas Instruments Innovation Lab: Participants gained an understanding of the lab's objectives and applications. Kit Awareness: Attendees were made aware of the available kits in the Texas lab, including Ultra Low Power, Embedded systems, Digital Signal Processors, and Robotics. Activities and Events: The workshop highlighted activities conducted at TI Labs, such as the



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	<p>"Drishti Online Contest" and "Embedded System and IoT" training, along with insights into past events.</p> <p>4. Enhanced Knowledge: The workshop enriched participants' knowledge about the lab's capabilities, potential applications, and history, with a presentation conducted by experienced professionals.</p>
Objective	<p>Awareness: To inform participants about the lab's objectives, fostering a clear understanding of its goals and intended applications.</p> <p>Kit Familiarity: Ensure attendees are knowledgeable about the range of kits available in the Texas lab, covering areas like Ultra Low Power, Embedded systems, Digital Signal Processors, and Robotics.</p> <p>Engagement: Encourage active involvement by showcasing lab activities and events, including contests and training opportunities, to spark participants' interest.</p> <p>Knowledge Enrichment: Provide participants with a deeper understanding of the lab's capabilities, potential applications, and historical context, facilitated by presentations from experienced professionals.</p> <p>Inspiration: Inspire participants to explore and utilize the resources and opportunities provided by the lab for their academic and career development.</p>
Photos	



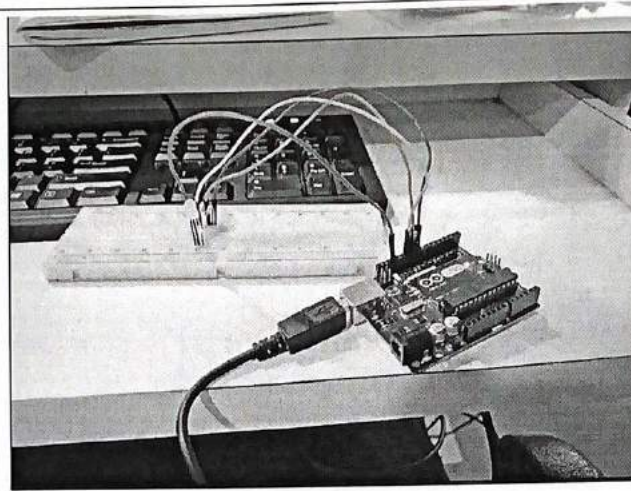
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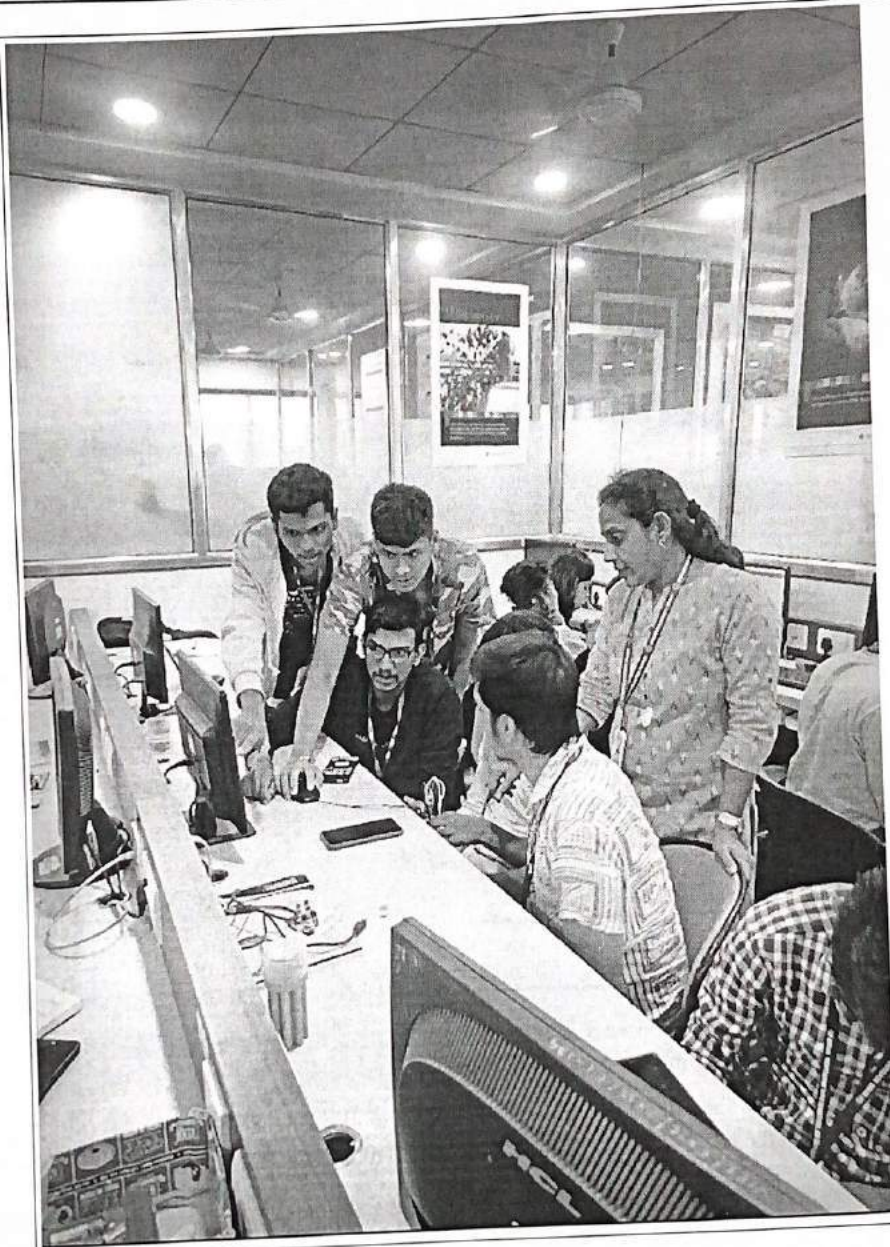
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विद्यावर्धिनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई
Affiliated to the University of Mumbai.

Academic Year 20 /20

43_Training on
Embedded System
using Texas
Instruments
Microcontrollers


Title of Event: *Embedded system and IoT Internship*


Date: *6/12/2021 to 17/12/2021*

Time: *9:30 am to 12:30 pm*

Venue: *Texas Instruments Innovation Laboratory*

Students: *26*
No. of Staff Present: *26*


Faculty Incharge


HOD



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

Texas Instruments Innovation Lab

Internship on "Embedded system and IoT"

6th - 17th December 2021

Date	Sessions	Topics	Resource Persons
Day 1 06/12/2021	9.30 am to 9.40 am	Introduction of VCET Texas Instruments innovation Lab	Ms. Shaista Khanam Dr. Archana Ekbote
	9.45 am to 10.15 am	Pre-Test	
	10.15 am to 11.30 am	Fundamentals of Embedded system and Arduino	
	11.35 pm to 1.35 pm	Hands on session on: 1) Interfacing of LED 2) Interfacing of Tri color LED 3) Interfacing of switch 4) Interfacing of 7 segments Display Assignment -1	
Day 2 07/12/2021	9.30 am to 11.30 am	Overview of Sensors and Actuators Hands on session on: 1) Interfacing of LDR 2) Interfacing of ultrasonic sensor	Ms. Trupti Shah Dr. Archana Ekbote
	11.35 pm to 1.35 pm	Hands on session on: 3) Interfacing of motors 4) Interfacing of LCD Assignment -2	
Day 3 08/12/2021	9.30 am to 11.30 pm	Hands on session on: 1) Interfacing of Bluetooth sensor 2) Interfacing of Temperature and Humidity sensor (DHT-11)	Ms. Shaista Khanam Mr. Sunil Katkar
	11.35 pm to 1.35 pm	1) Introduction to Internet of Things (IoT) 2) Introduction to Things speak cloud 3) Interfacing of Node MCU and DHT – 11 with Things speak cloud	

Day 4 09/12/2021	9.30 am to 11.30 pm	<p>Introduction to MSP – 430 Microcontroller (16 - Bits)</p> <p>Hands on session on:</p> <ol style="list-style-type: none"> 1) Interfacing of LED 2) Interfacing of Tri color LED 	Ms. Ekta Naik Mr. Sunil Katkar
	11.35 pm to 1.35 pm	<ol style="list-style-type: none"> 3) Analog read operation – Interfacing of LDR 4) Analog write (LED fading) <p>Assignment -3</p>	
Day 5 10/12/2021	9.30 am to 11.30 pm	<p>Introduction to TIVA – C Microcontroller (32- Bits)</p> <p>Hands on session on:</p> <ol style="list-style-type: none"> 1) Interfacing of LED 2) Interfacing of white LED 	Ms. Trupti Shah Ms. Shaista Khanam
	11.35 pm to 1.35 pm	<p>Introduction to code composer and Hands on session on Texas Instruments tools.</p>	
Day 6 13/12/2021	9.30 am to 11.30 am	<p>Internet of Things</p> <ol style="list-style-type: none"> 1) What is IOT? 2) TCP/IP, internet terminologies 3) CC3100 Booster-Pack Overview. <p>Hands on session:</p> <ol style="list-style-type: none"> 1) Wi-Fi Connection, acquiring IP 2) Control your Launchpad using Wi-Fi (IO manipulation on Launchpad using HTTP Web browser). 3) Control your Launchpad using Wi-Fi (IO manipulation on Launchpad using HTTP Web browser) 	Ms. Shaista Khanam Mr. Kamlesh Bachkar
	11.35 pm to 1.35 pm	<ol style="list-style-type: none"> 4) Introduction to BLYNK Application 5) Using BLYNK Application to control your Launchpad 	
Day 7 14/12/2021	9.30 am to 11.30 am	<p>IFTTT Cloud Lab: Integrating Blynk with IFTTT and controlling launchpad using voice commands</p>	Ms. Shaista Khanam Ms. Kanchan Saramlekar

	11.35 pm to 1.35 pm	<ul style="list-style-type: none"> - Introduction to TI Robotics Systems Learning (RSLK) Kit - Controlling RSLK for different operation 	
Day 8 15/12/2021	9.30 am to 11.30 pm	Communication protocol	Ms. Trupti Shah Ms. Kanchan Saramlekar
	11.35 pm to 1.35 pm	Lab session based on Communication protocol	
Day 9 16/12/2021	9.30 am to 11.30 pm	Project Implementation	Mr. Kamlesh Bachkar
	11.35 pm to 1.35 pm		
Day 10 17/12/2021	9.30 am to 11.30 pm	<ul style="list-style-type: none"> - Project Implementation - Test 	Ms. Ekta Naik
	11.35 pm to 1.35 pm		

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Vidyavardhini's College of Engineering & Technology
Texas Instruments Innovation Laboratory

Program	Texas Instruments Innovation Laboratory Internship
Title	Embedded system and IoT
Duration	6/12/2021 to 17/12/2021
Number of Students	26
Organized by	Texas Instruments Innovation Laboratory and IIC VCET
Faculty	Mrs. Shaista Khanam Mrs. Trupti Shah Ms. Ekta Naik Dr. Archana Ekbote Mrs. Kanchan Sarmalkar Mr. Kamlesh Bachkar
Description	<p>6/12/2021</p> <p>Resource Person: Ms. Shaista Khanam Dr. Archana Ekbote</p> <p>Topics Covered: Fundamentals of Embedded system and Arduino.</p> <p>Hands on session on:</p> <ol style="list-style-type: none">1) Interfacing of LED2) Interfacing of Tri color LED3) Interfacing of switch4) Interfacing of 7 segments Display <p>Based on knowledge gained students were able to develop programs and interfaced LED, switch 7 segments Display.</p> <p>7/12/2021</p> <p>Resource Person: Ms. Trupti Shah Dr. Archana Ekbote</p> <p>Topics Covered: Overview of Sensors and Actuators</p> <p>Hands on session on:</p> <ol style="list-style-type: none">1) Interfacing of LDR2) Interfacing of ultrasonic sensor3) Interfacing of LCD4) Interfacing of Temperature and Humidity sensor (DHT-11) <p>Students were interfaced, temperature, ultrasonic sensor with LCD and displayed temperature, humidity value on LCD.</p>



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Texas Instruments Innovation Laboratory

8/12/2021

Resource Person: Ms. Shaista khanam
Ms. Trupti shah

Topics Covered: Introduction to Internet of Things (IoT) and Things speak cloud

Hands on session on:

- 1) Interfacing of Bluetooth sensor
- 2) Interfacing of Node MCU and DHT – 11 with Things speak cloud

Based on knowledge gained students were able to interface temperature sensor with Things speak cloud.

9/12/2021

Resource Person: Ms. Ekta naik
Ms. Shaista khanam
Ms. Trupti shah

Topics Covered: Introduction to MSP – 430 Microcontroller (16 Bits) and energia IDE

Hands on session on:

- 1) Interfacing of LED
- 2) Interfacing of Tri color LED
- 3) Analog read operation – Interfacing of LDR
- 4) Analog write (LED fading)

Based on understanding of peripheral interfacing with Arduino Students interfaced ultrasonic sensor, temperature humidity sensor and Potentiometer with MSP 430.

10/12/2021

Resource Person: Ms. Trupti shah
Ms. Shaista khanam

Topics Covered: Introduction to TIVA – C Microcontroller (32- Bits)

Hands on session on:

- 1) Interfacing of LED
- 2) Interfacing of white LED

Based on understanding gained in session of Arduino (8 bit) and MSP 430 (16 bit) microcontroller , students applied knowledge in TIVA c (32 bit) microcontroller and



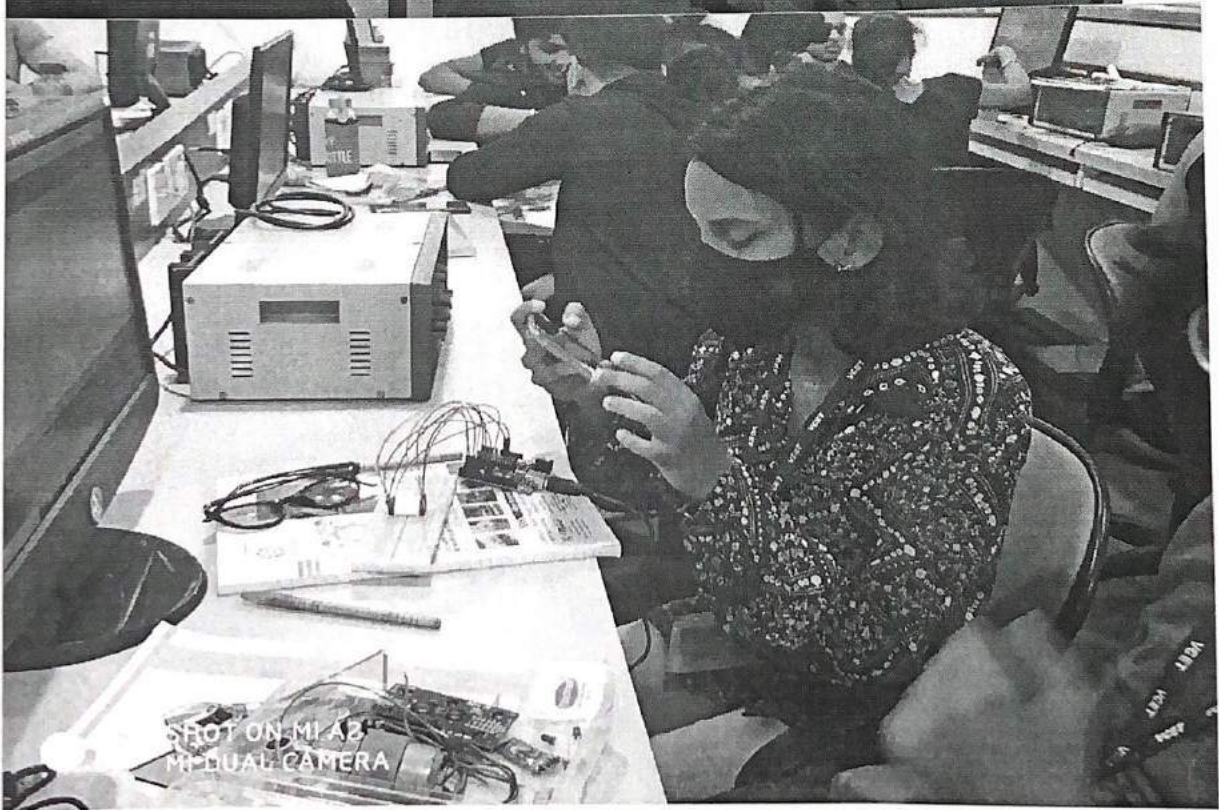
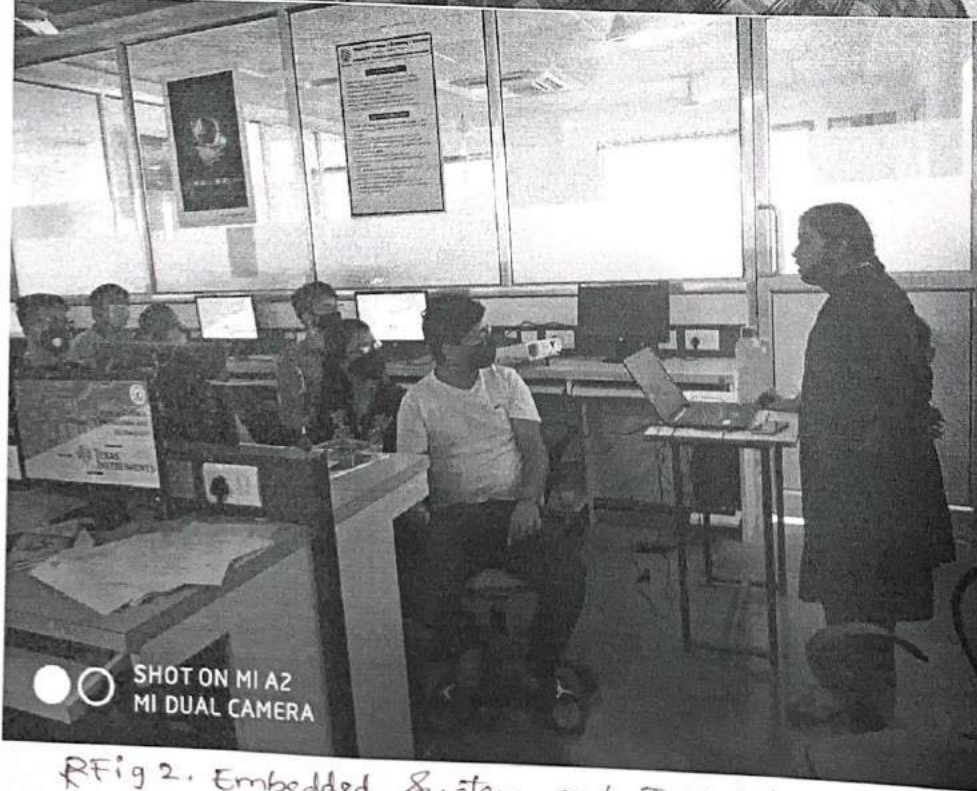
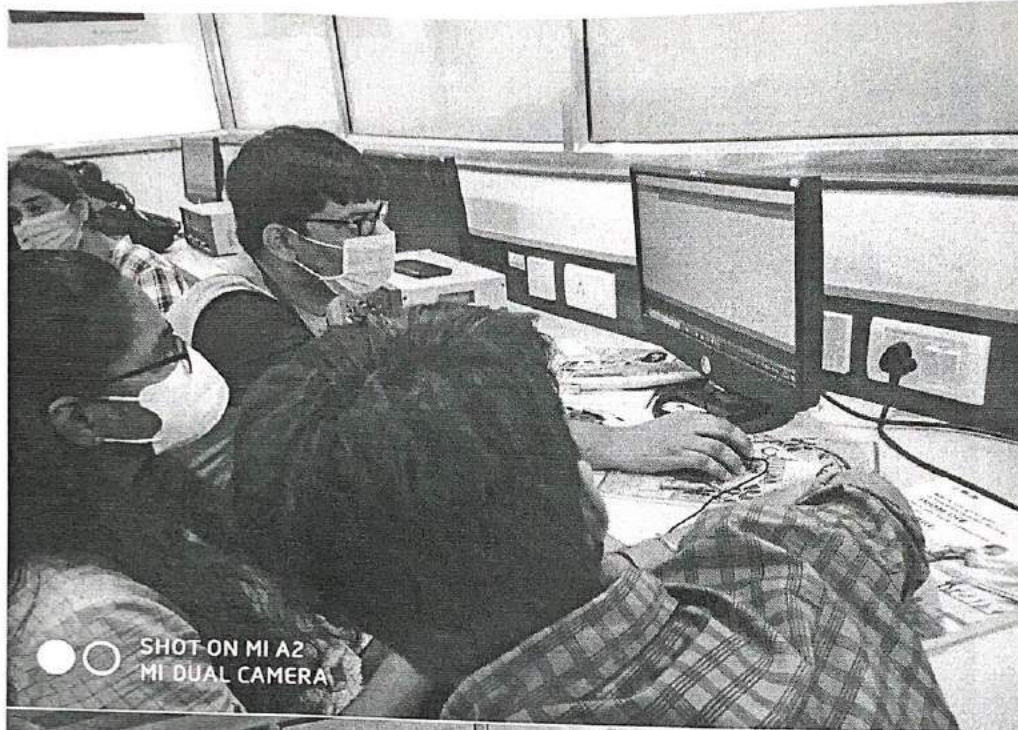


Fig1. Embedded system and IOT internship.



RFig 2. Embedded System and IOT internship.

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Texas Instruments Innovation Laboratory

developed applications.

13/12/2021

Resource Person: Ms. Shaista Khanam
Ms. Trupti Shah

Topics Covered: Internet of Things

- 1) What is IOT?
- 2) TCP/IP, internet terminologies
- 3) CC3100 Booster-Pack Overview.
- 4) Introduction to BLYNK Application

Hands on session on:

- 1) Wi-Fi Connection, acquiring IP
- 2) Control your Launchpad using Wi-Fi (IO manipulation on Launchpad using HTTP Web browser).
- 3) Control your Launchpad using Wi-Fi (IO manipulation on Launchpad using HTTP Web browser)
- 4) Using BLYNK Application to control your Launchpad

14/12/2021

Resource Person: Mr. Shubham Bari (Student)
Mr. Aditya Patil (Student)
Ms. Kanchan Sarmalkar

Topics Covered: Introduction to **TI Robotics Systems Learning (RSLK) Kit**
Controlling RSLK for different operation

Hands on session on:

- 1) Interfacing of motors
- 2) Robots for different directions

14/12/2021

Resource Person: Mr. Rahul Kamble (Student)
Mr. Aditya Patil (Student)

Topics Covered: 1) Communication protocol
2) IFTTT Cloud Lab: Integrating Blynk with IFTTT and controlling launchpad using voice commands

Lab session:



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Texas Instruments Innovation Laboratory

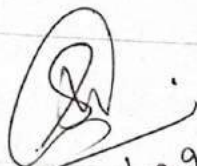
- 1) based on Communication protocol(I2C) - OLED interfacing
- 2) Voice control using node mcu

15 /12/2021 and 16 /12/2021

Resource Person: Ms. Ekta Naik
Ms.Kanchan Sarmalkar
Mr. Kamlesh Bachkar

Students implemented **mini projects** based on knowledge gain in internship.
Internship completed with project submission, test conduction and feedback.

Sign. with Date

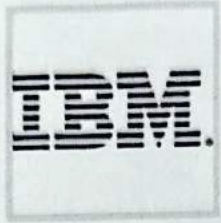

25/01/22





12 Courses

- Introduction to Cloud Computing
- Introduction to Web Development with HTML, CSS, JavaScript
- Getting Started with Git and GitHub
- Developing Cloud Native Applications
- Developing Cloud Apps with Node.js and React
- Introduction to Containers w/ Docker, Kubernetes & OpenShift
- Python for Data Science, AI & Development
- Python Project for AI & Application Development
- Developing Applications with SQL, Databases, and Django
- Application Development using Microservices and Serverless
- Full Stack Cloud Development Capstone Project
- Full Stack Software Developer Assessment



44 IBM Full Stack Software Development

Aug 31, 2022

Sankalp Yadunath Chavan

has successfully completed the online, non-credit Professional Certificate



Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

IBM Full Stack Software Developer

The earner of this Professional Certificate has completed 10 courses on various Application Development and Cloud technologies and is now equipped with the skills and know how to undertake challenges of Developing Cloud Native Applications. The Certificate earner has hands-on working knowledge with HTML, CSS, JavaScript, GitHub, Node.js, React, Cloud Native practices, DevOps, CI/CD, Containers, Docker, Kubernetes, OpenShift, Python programming, Databases, SQL, NoSQL, Django ORM, Bootstrap, Application Security, Microservices, Serverless computing, and more. The learner has also deployed several applications on cloud, completed a capstone project, and delivered a Software as a Service (SaaS) solution using Cloud Native methodologies.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a university grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:
<https://coursera.org/verify/professional-cert/MUZ33CD2MEMN>

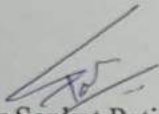


Vidyavardhini's College of Engineering & Technology
Training and Placement Cell

Academic Year : 2021-22


Value Added Courses

Sr. No.	Name of Certificate/ Value added course offered and online courses of MOOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed	Period (from date - to date)	Duration of course	Number of students enrolled in the year
1	Campus Recruitment Training	26/02/2022 to 17/04/2022	2 months	110
2	Campus Recruitment Training	07/06/2022 to 17/06/2022	10 days	110
3	Internship On Automation using Siemens PLC	6/12/2021 to 17/12/2021	12 days	26
4	Online Internship on Personality Development and Soft Skills	23/08/2021 to 02/09/2021	10 days	354
5	Internship On application development using fire bird V robot	13/12/2021 to 24/12/2021	12 days	31


Mr. Sanket Patil

Training and Placement Officer




Mr. Prafulla Patil

Placement Manager



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Founder President Late Padmashri H. G. Vartak

(Approved by AICTE and Affiliated to the University of Mumbai)

Four Branches Permanently Affiliated by University of Mumbai

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PAT Centre

45_Campus
Recruitment
Training1

Date:11-10-2021

To,

The Principal,

VCET Vasai.

Subject: Request to permit CRT Aptitude Training Sessions for Third Year students graduating in June 2023.

Respected Sir,

Training & Placement Cell is planning to schedule CRT Aptitude Training session by Campus Credential for Academic Year 2021-22.

CRT Aptitude Training will assist students to prepare for Placement & Higher Studies entrance examination. Completion certificate will be awarded to students at the end of the training after assessing at regular intervals.

Attached herewith is the proposal including Syllabus for the training.

Kindly permit our request.

Thank You.

Best Regards,

Prof. Prafulla Patil,

Placement Manager

VCET Vasai

APTITUDE AND SOFT SKILLS TRAINING

BY CAMPUS CREDENTIAL

Year 2021-22

Campus Credential (CC) is fastest growing training institute that is established itself as Campus Credential (CC) is a forerunner in the education and training sector since its inception. CC has successfully provided aptitude training to various colleges with high success rate. The philosophy of the company has always been student-centric rather than profit-centric, which makes CC the ideal choice for students. a most reputed aptitude and soft skill training academy of Maharashtra. The philosophy of the academy has always been student-centric rather than profit-centric, which makes CC the ideal choice for students. Campus Credential provide Campus Recruitment Training (CRT) to VCET students from last few years. CRT is dynamic course that is constantly updated according Industrial requirement. Campus Credential specializes in MBA entrance exam and other competitive exams training, including CAT, XAT, IIFT, SNAP, NMAT, CET, Bank PO, etc. CampPAT, the unique training module designed by CC, is an innovative learning concept that enables students to crack these exams more efficiently. Camp Test Series is an e-learning module designed to help students learn concepts without classroom training. Campus Credential also trains students for GRE, GMAT, TOEFL, IELTS, etc. along with personalized counselling that enables students to plan and execute their further studies outside India. CC provide mentors and counsellors to students to monitor the entire training session.

“Success is where preparation and opportunity meet” is a philosophy adapted by campus Credential.

CC has designed their own testing platform, training modules and course materials, which enables students to update and upgrade regularly. The trainers and mentors are highly experienced with the credentials to match.

Training and Placement cell had organized aptitude and soft skill training to VCET students through Campus Credential at college premises. Selection of Campus Credential as training partner is based on students' feedback on demo lecture of Campus Credential.

Aptitude training was conducted in 3 phases details of training contents as below

PHASE : I		
Content	Subject	Duration/Hours
Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5

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Training & Placement Cell

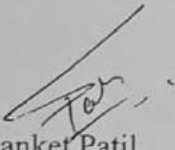
Quant-Arithmetic		5
Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	6
Verbal-Reasoning		5
Logical Reasoning 2(Puzzles)		5
Resume Building lecture /PI Preparation/GD brief	Soft Skills	4
Essay writing		2
Total hours per batch		48-50 Hrs approx
PHASE: II		
Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5
Quant-Arithmetic		5
Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	3
Verbal-Reasoning		2
Logical Reasoning 2(Puzzles)		2
Essay Writing	Soft Skills	4
Communication		2
Group Discussion		6
Resume /Personal Interview		4
Personal Interview Individual (One to One by corporates)		20
Total hours per batch		

PHASE: III MOCK INTERVIEW

A mock interview helps students to experience way to answer difficult questions, develop interview strategies, improve communication skills, and reduce stress before an actual placement drive. During a mock interview, the interviewer may use a semi-structured interview format rather than asking a formal list of questions.

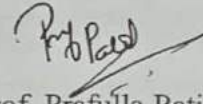
Campus Credential had arranged face to face interview of each students. It build confidence in students to face interview by company HR and higher study admission decision committee.

In Year 2021-22 Campus Credential and Training and Placement Cell had provided all phases of aptitude and soft training for students. Students of all branches were attended these training sessions.



Prof. Sanket Patil

Training and Placement cell



Prof. Prafulla Patil

Training and Placement cell

Vidyavardhini's College of Engineering and Technology - Online

Sr. No.	Date	Day	Timing	Topics
1	2/26/2022	Saturday	10:00 AM TO 01:00 PM	
2			02:00 PM TO 05:00 PM	EQUATION , RATIO & PROPORTION
3	2/27/2022	Sunday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
4			02:00 PM TO 05:00 PM	PARTNERSHIP , SI & CI
5	3/5/2022	Saturday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
6			02:00 PM TO 05:00 PM	AVERAGE MIXTURE ALLEGATION
7	3/6/2022	Sunday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
8			02:00 PM TO 05:00 PM	TIME SPEED AND DISTANCE
9	3/12/2022	Saturday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
10			02:00 PM TO 05:00 PM	TIME AND WORK
11	3/13/2022	Sunday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
12			02:00 PM TO 05:00 PM	NUMBER
13	3/19/2022	Saturday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
14			02:00 PM TO 05:00 PM	SENTENCE, VERB AND AGREEMENT
16	3/20/2022	Sunday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
17			02:00 PM TO 05:00 PM	DI - 01
18	3/26/2022	Saturday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
19			02:00 PM TO 05:00 PM	DI - 02
20	3/27/2022	Sunday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
21			02:00 PM TO 05:00 PM	PARTNERSHIP , SI & CI TIME AND WORK
22	4/2/2022	Saturday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
23			02:00 PM TO 05:00 PM	GEOMETRY AND MENSURATION - 01
24	4/3/2022	Sunday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
25			02:00 PM TO 05:00 PM	GEOMETRY AND MENSURATION - 02
26	4/9/2022	Saturday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
27			02:00 PM TO 05:00 PM	PERMUTATION AND COMBINATION
28	4/10/2022	Sunday	10:00 AM TO 01:00 PM	TECHNICAL SESSION
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54	6/18/2022	SATURDAY	02:00 PM TO 05:00 PM	TECHNICAL SESSION
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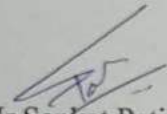


Vidyavardhini's College of Engineering & Technology
Training and Placement Cell

Academic Year : 2021-22


Value Added Courses

Sr. No.	Name of Certificate/ Value added course offered and online courses of MOOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed	Period (from date - to date)	Duration of course	Number of students enrolled in the year
1	Campus Recruitment Training	26/02/2022 to 17/04/2022	2 months	110
2	Campus Recruitment Training	07/06/2022 to 17/06/2022	10 days	110
3	Internship On Automation using Siemens PLC	6/12/2021 to 17/12/2021	12 days	26
4	Online Internship on Personality Development and Soft Skills	23/08/2021 to 02/09/2021	10 days	354
5	Internship On application development using fire bird V robot	13/12/2021 to 24/12/2021	12 days	31


Mr. Sanket Patil

Training and Placement Officer




Mr. Prafulla Patil

Placement Manager



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Founder President Late Padmashri H. G. Vartak

(Approved by AICTE and Affiliated to the University of Mumbai)

Four Branches Permanently Affiliated by University of Mumbai

K. T. Marg, Vasai Road (W), Dist. Palghar - 401 202, Maharashtra.

Tel.: 0250-2338234 (6 Line) • Email : vcet_inbox@vcet.edu.in • Website : www.vcet.edu.in

PAT Centre

46_Campus
Recruitment
Training1

Date:11-10-2021

To,

The Principal,

VCET Vasai.

Subject: Request to permit CRT Aptitude Training Sessions for Third Year students graduating in June 2023.

Respected Sir,

Training & Placement Cell is planning to schedule CRT Aptitude Training session by Campus Credential for Academic Year 2021-22.

CRT Aptitude Training will assist students to prepare for Placement & Higher Studies entrance examination. Completion certificate will be awarded to students at the end of the training after assessing at regular intervals.

Attached herewith is the proposal including Syllabus for the training.

Kindly permit our request.

Thank You.

Best Regards,

Prof. Prafulla Patil,

Placement Manager

VCET Vasai

**APTITUDE AND SOFT SKILLS TRAINING
BY CAMPUS CREDENTIAL**

Year 2021-22

Campus Credential (CC) is fastest growing training institute that is established itself as Campus Credential (CC) is a forerunner in the education and training sector since its inception. CC has successfully provided aptitude training to various colleges with high success rate. The philosophy of the company has always been student-centric rather than profit-centric, which makes CC the ideal choice for students. a most reputed aptitude and soft skill training academy of Maharashtra. The philosophy of the academy has always been student-centric rather than profit-centric, which makes CC the ideal choice for students. Campus Credential provide Campus Recruitment Training (CRT) to VCET students from last few years. CRT is dynamic course that is constantly updated according Industrial requirement. Campus Credential specializes in MBA entrance exam and other competitive exams training, including CAT, XAT, IIFT, SNAP, NMAT, CET, Bank PO, etc. CampPAT, the unique training module designed by CC, is an innovative learning concept that enables students to crack these exams more efficiently. Camp Test Series is an e-learning module designed to help students learn concepts without classroom training. Campus Credential also trains students for GRE, GMAT, TOEFL, IELTS, etc. along with personalized counselling that enables students to plan and execute their further studies outside India. CC provide mentors and counsellors to students to monitor the entire training session.

“Success is where preparation and opportunity meet” is a philosophy adapted by campus Credential.

CC has designed their own testing platform, training modules and course materials, which enables students to update and upgrade regularly. The trainers and mentors are highly experienced with the credentials to match.

Training and Placement cell had organized aptitude and soft skill training to VCET students through Campus Credential at college premises. Selection of Campus Credential as training partner is based on students' feedback on demo lecture of Campus Credential.

Aptitude training was conducted in 3 phases details of training contents as below

PHASE : I		
Content	Subject	Duration/Hours
Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

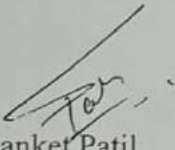
Quant-Arithmetic		5
Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	6
Verbal-Reasoning		5
Logical Reasoning 2(Puzzles)		5
Resume Building lecture /PI Preparation/GD brief	Soft Skills	4
Essay writing		2
Total hours per batch		48-50 Hrs approx
PHASE: II		
Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5
Quant-Arithmetic		5
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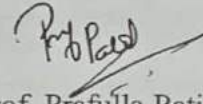
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Prof. Sanket Patil

Training and Placement cell



Prof. Prafulla Patil

Training and Placement cell

Vidyavardhini's College of Engineering and Technology - Online

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				TECHNICAL SESSION

To,
The Principal,
VCET, Vasal

Subject Proposal for Internship of third year (After V sem) students.

Respected sir,


As per our discussion about the TE Internship program, IIC is planning an Internship program from 6th December 2021 to 17th December 2021. After pandemic offline Internship are planned in our campus at Siemens center of excellence, Texas Instrument Innovation lab, AVIVA center of excellence and E -Yantra Robotic lab. Only fully vaccinated TE students will be allowed for the Internship. Detailed proposal is as follows,

Sr. No.	Venue	Internship Topics	Positions Available
1.	Siemens Center of Excellence	<ol style="list-style-type: none"> 1. PLC Basics: Need and benefit of automation; PLC system: applications of PLC, PLC modules, I/O module, Communication module; PID module 2. PLC Functions: PLC registers, PLC timer function, PLC counter function, PLC simple arithmetic and logical functions, PLC ladder logic diagram, Advanced PLC functions, Sequencer function, Output analog and digital devices 3. Engineering Software TIA Portal: Product Lifecycle Management, Digital Enterprise Suite, TIA Portal – Central Engineering Framework, Scope of the Products, Automation License Manager, TIA Portal: Portal View and Project View, Window Arrangement Saving a Project, Archiving / Retrieving a Project 4. SIMATIC S7-1200 with STEP7 V15: System Overview, PLC Tags, Programming Blocks, Troubleshooting & Trace Functionality, Memory card binding, Web server with user defined Web Pages, PID block 	25
2.	Texas Instruments Innovation Lab	<ol style="list-style-type: none"> 1. Microcontroller basics and programming fundamentals. <ol style="list-style-type: none"> a) Arduino – 8-bit Microcontroller b) MSP 430 Launch Pad – 16-bit Microcontroller c) Tiva C launch pad – 32-bit Microcontroller 2. Interfacing of Sensor, actuators with Microcontroller 3. Communication Protocols 4. Introduction to Internet of Things (IoT) 5. Applications using Blynk and Things cloud 	30

3.	E-Yantra Robotics Lab	<ol style="list-style-type: none"> 1. Introduction to Fire Bird V robot 2. Introduction to AVR Micro-controller and Programming environment 3. Simple Motion Control using I/O ports 4. Robot velocity control using pulse width modulation 5. Introduction to LCD Interfacing 6. Analog sensor Interfacing using Analog to Digital conversion 7. Interrupt programming 8. Robot programming for white line following 9. Project-Application Development using Fire Bird Robot V- RESTAURANT ASSISTANT: ORDER TAKING ROBOT 	28
4.	AVIVA Center of Excellence	<ol style="list-style-type: none"> 1. Introduction to P&ID using AVEVA software. 2. Introduction to P&ID using MS Excel. 3. Introduction to P&ID symbol. 4. Introduction to Field Instruments revision. 5. Reading P&ID And AVEVA practice session. 6. Introduction to different modules of AVEVA 	20

Please permit this such that I can plan accordingly.


Prafulla Patil,
Coordinator, IIC

Approved


Report on December 2021 Internship Program

A two-week internship program on "Siemens PLC Programming is successfully conducted at Siemens center of excellence and organized by IIIC, Vidyavardhini's College of Engineering from 6th December 2021 to 17th December 2021. 26 students from various branches completed the internship. Sessions are conducted by our faculty members Prafulla Patil, Kamlesh Bachkar, Vishal Pande, Ekta Naik and Kanchan Sarmalkar associated with center of excellence. Topics covered are as follows,

1. PLC Basics
2. PLC Functions: PLC registers, PLC timer function, PLC counter function, PLC simple arithmetic and logical functions, PLC ladder logic diagram, Advanced PLC functions, Sequencer function, Output analog and digital devices
3. Engineering Software TIA Portal: Product Lifecycle Management, Digital Enterprise Suite, TIA Portal – Central Engineering Framework, Automation License Manager, TIA Portal: Portal View and Project View, Window Arrangement Saving a Project, Archiving / Retrieving a Project
4. SIMATIC S7-1200 with STEP7 V15: System Overview, PLC Tags, Programming Blocks, Troubleshooting & Trace Functionality,


Prafulla Patil
Coordinator, Siemens COE



Details of Dec. 2021 TE Internship in Siemens COE

Date	Sessions	Topics	Resource Persons
Day 1 06/12/2021	10.30 am to 12.30 pm	PLC Theory	Prafulla Patil, Vishal Pande
	1.30 pm to 3.30 pm	Siemens COE Introduction	
Day 2 07/12/2021	10.30 am to 12.30 pm	TIA portal-Introduction	Prafulla Patil, Vishal Pande
	1.30 pm to 3.30 pm	Practice session	
Day 3 08/12/2021	10.30 am to 12.30 pm	PLC Tags	Kanchan Patlekar, Kamlesh Bachkar
	1.30 pm to 3.30 pm	Practice session	
Day 4 09/12/2021	10.30 am to 12.30 pm	Programming blocks	Vishal Pande, Kamlesh Bachkar
	1.30 pm to 3.30 pm	Practice session	
Day 5 10/12/2021	10.30 am to 12.30 pm	Binary operations	Prafulla Patil, Kamlesh Bachkar
	1.30 pm to 3.30 pm	Practice session	
Day 6 13/12/2021	10.30 am to 12.30 pm	Digital operations	Ekta Naik, Kanchan Patlekar
	1.30 pm to 3.30 pm	Practice session	
Day 7 14/12/2021	10.30 am to 12.30 pm	Timers/Counters operations	Kamlesh Bachkar, Ekta Naik
	1.30 pm to 3.30 pm	Practice session	
Day 8 15/12/2021	10.30 am to 12.30 pm	Analog operations	Prafulla Patil, Kamlesh Bachkar
	1.30 pm to 3.30 pm	Practice session	
Day 9 16/12/2021	10.30 am to 12.30 pm	Functions and Function Blocks	Prafulla Patil, Kamlesh Bachkar
	1.30 pm to 3.30 pm	Practice session	
Day 10 17/12/2021	10.30 am to 12.30 pm	Application based project	Prafulla Patil, Vishal Pande
	1.30 pm to 3.30 pm	Test	



Sr. No.	Name of Student	Class	Branch	Exam Seat No (ID Number)
1	Suyash Prakash Satam	TE	Computer	191573101
2	Harmish Bhavsar	TE	EXTC	190041101
3	Tawade Shravan Naresh	TE	EXTC	180531101
4	ROHIT CHAVAN	TE	EXTC	S204031102
5	Nalanda Pandurang Patil	TE	EXTC	190341210
6	Aniruddha Mane	TE	EXTC	S204081101
7	Shubham bari	TE	EXTC	S204001105
8	Prachi sonawane	TE	Computer	S204503202
9	Ankita Soudagar Bhosle	TE	Instrumentation	192415201
10	Abdullah Shaikh Jabir	TE	Instrumentation	192605101
11	Adarsh Ashokan Ottupurath	TE	Instrumentation	192395101
12	Vedant Rajesh Sankhe	TE	IT	S204614108
13	Pannelal Yadav	TE	EXTC	190581101
14	Nishant Sharma	TE	EXTC	190431105
15	Alokkumar Danbahadur Singh	TE	EXTC	190461101
16	Rohit Adhikari	TE	Mechanical	193137101
17	Pushkar Mohan Ghaisas	TE	Mechanical	S205107101
18	Prathamesh Sunil more	TE	Mechanical	S204262112
19	Shubham Gaikwad	TE	Mechanical	S204182101
20	Sahil Mistry	TE	Mechanical	193347101
21	Rajendra Gajanan Gujar	TE	Mechanical	193237101
22	VEDANT BALASAHEB YAMGAR	TE	Mechanical	S205247107
23	Shalom lopes	TE	Mechanical	190762101
24	Atharv Dixit	TE	Mechanical	190682105
25	Lance Dsouza	TE	Mechanical	S205087101
26	Omkar Kishor Pitale	TE	Mechanical	190892105

Prakash



Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

23rd July 2021

To,
The Principal,
VCET, Vasai

48_Online Training
on Personality
Development and
Skills

Subject Proposal for Internship of students entering in second year Engineering.

Respected sir,

As per our discussion about the FE Internship program, IICC is planning an internship program from 23rd August 2021 to 2nd September 2021. Detailed proposal is as follows,

Sr. No.	Date	Schedule	Session Topic
1	23/08/2021	10 am to 12 pm	Resume Writing
		1.30 pm to 3.30 pm	How to speak up in front of audience
2	24/08/2021	10 am to 12 pm	Perception Management
		1.30 pm to 3.30 pm	Activity based on Perception Management
3	25/08/2021	10 am to 12 pm	Time and stress management
		1.30 pm to 3.30 pm	Activity based on time and stress management
4	26/08/2021	10 am to 12 pm	Business email writing and etiquette
		1.30 pm to 3.30 pm	Interview etiquette
5	27/08/2021	10 am to 12 pm	Communication- listening and 7C's of communication
		1.30 pm to 3.30 pm	Activity based on Communication- listening and 7C's of communication
6	28/08/2021	10 am to 12 pm	Vedic Math's
		1.30 pm to 3.30 pm	Vedic Math.s
7	30/08/2021	10 am to 12 pm	Mathematics and logics
		1.30 pm to 3.30 pm	Mathematics and logics
8	31/08/2021	10 am to 12 pm	Teamwork
		1.30 pm to 3.30 pm	Activity based on Teamwork

Vidyavardhini's College of Engineering and Technology, Vasai

Industry Institute Interaction Cell

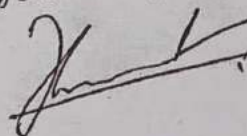
9	01/09/2021	10 am to 12 pm	Goal setting
		1.30 pm to 3.30 pm	Goal setting activity
10	02/09/2021	1.30 pm to 3.30 pm	Swot analysis
		10 am to 12 pm	Swot analysis

All these sessions are conducted by experts from industry.

We have to pay remuneration of rupees 1000 per hour to them. So total 1000×40 hours = 40,000 rupees. Please sanction this such that I can plan accordingly.


Prafulla Patil,

Coordinator, IIC

Approved




A Report on Internship of students entering in second year Engineering

Two Weeks (10 Days) Internship Programme on Soft skills Development was organized by Industry Institute Interaction Cell of Vidyavardhini's College of Engineering and Technology for all the students entering in second year engineering from 23rd August, 2021 to 2nd September, 2021. The internship sessions were conducted by Ms. Shruti Mishra from Campus Credential.

The details of the Internship were as under,

Day 1 (23/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Change Management, Confidence building

Day 2 (24/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Perception Management, Fixed Mindset vs Growth Mindset

Day 3 (25/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Time and stress management, Resume Writing

Day 4 (26/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Business email writing and etiquette Interview etiquette

Day 5 (27/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Communication- listening and 7C's of communication, Activity based on Communication- listening and 7C's of communication

Day 6 (28/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Teamwork, Activities for teamwork

Day 7 (30/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Goal setting, Goal setting activity

Day 8 (31/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm



Goal setting, Business email writing

Day 9 (01/09/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

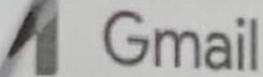
SWOT analysis, Activity to find individual's Strength and weakness

Day 10 (02/09/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Emotional wellness: Anxiety, Failure etc

Quizzes were given to the participants to gauge their understanding about the topics covered on that particular day.

A total of 352 students from all the departments took part in this internship, the name of the students has been attached.



Aarti Puthran <aarti.puthran@vcet.edu.in>

Fwd: A Report on Internship of students entering in second year Engineering

sneha mhatre <sneha.mhatre@vcet.edu.in>
To: aarti.puthran@vcet.edu.in

Fri, Oct 13, 2023 at 2:17 PM

----- Forwarded message -----

From: **iiic vcet** <iiic@vcet.edu.in>
Date: Fri, 13 Oct 2023, 13:59
Subject: Fwd: A Report on Internship of students entering in second year Engineering
To: <sneha.mhatre@vcet.edu.in>

----- Forwarded message -----

From: **iiic vcet** <iiic@vcet.edu.in>
Date: Wed, Sep 8, 2021 at 9:06 AM
Subject: A Report on Internship of students entering in second year Engineering
To: Dr. Harish Vankudre <principal@vcet.edu.in>
Cc: <hod@vcet.edu.in>, <dean_academic@vcet.edu.in>, Vishal Save <registrar@vcet.edu.in>

A Report on Internship of students entering in second year Engineering

Two Weeks (10 Days) Internship Programme on Soft skills Development was organized by Industry Institute Interaction Cell of Vidyavardhini's College of Engineering and Technology for all the students entering in second year engineering from 23rd August, 2021 to 2nd September, 2021. The internship sessions were conducted by Ms. Shruti Mishra from Campus Credential.

The details of the Internship were as under,

Day 1 (23/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Change Management, Confidence building

Day 2 (24/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Perception Management, Fixed Mindset vs Growth Mindset

Day 3 (25/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Time and stress management, Resume Writing

Day 4 (26/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Business email writing and etiquette Interview etiquette

Day 5 (27/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Communication- listening and 7C's of communication, Activity based on Communication- listening and 7C's of communication

Day 6 (28/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Teamwork, Activities for teamwork

7 (30/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Goal setting, Goal setting activity

Day 8 (31/08/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Goal setting, Business email writing

Day 9 (01/09/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

SWOT analysis, Activity to find individual's Strength and weakness

Day 10 (02/09/21) 10:00am to 12:00pm and 1:30 pm to 3.30 pm

Emotional wellness: Anxiety, Failure etc


Quizzes were given to the participants to gauge their understanding about the topics covered on that particular day.


A total of 352 students from all the departments took part in this internship, the name of the students has been attached.

--
Prafulla Patil,
IIC Coordinator,
Vidyavardhini's College of Engineering & Technology, Vasai
Mobile- 7710070966

--
Prafulla Patil,
IIC Coordinator,
Vidyavardhini's College of Engineering & Technology, Vasai
Mobile- 7710070966

2 attachments

 FE Internship Analysis.docx
24K

 Student list.xlsx
26K

Fwd: FE Internship Link and schedule

sneha mhatre <sneha.mhatre@vcet.edu.in>
To: aarti.puthran@vcet.edu.in

Fri, Oct 13, 2023 at 2:16 PM

----- Forwarded message -----

From: **Megha Trivedi** <hod_comp@vcet.edu.in>

Date: Sun, 22 Aug 2021, 22:07

Subject: Fwd: FE Internship Link and schedule

To: Dr. Tatwadarshi P. Nagarhalli <tatwadarshi.nagarhalli@vcet.edu.in>, sneha mhatre <sneha.mhatre@vcet.edu.in>

Pls send reminder to students.

Thanks

----- Forwarded message -----

From: **iiic vcet** <iiic@vcet.edu.in>

Date: Sun, Aug 22, 2021, 16:58

Subject: FE Internship Link and schedule

To: ekta naik <ekta.naik@vcet.edu.in>, <mariyam.jawadwala@vcet.edu.in>, <tatwadarshi.nagarhalli@vcet.edu.in>, vikrant kothari <vikrant.kothari@vcet.edu.in>, mukund kavekar <mukund.kavekar@vcet.edu.in>, <kamlesh.bachkar@vcet.edu.in>, <sandeep.pawar@vcet.edu.in>

Cc: <hod@vcet.edu.in>, <dean_academic@vcet.edu.in>, Vishal Save <registrar@vcet.edu.in>, Dr. Harish Vankudre <principal@vcet.edu.in>, <fe_coordinator@vcet.edu.in>

Dear all,

Please share the schedule and link of the Internship program with the students entering in second year. Take help of FE class incharges if needed. 100% attendance is mandatory for all the students.

Link for 1st half (10 am to 12 pm)- <https://us02web.zoom.us/join/9tZlqc-muqjorHNLfhC96fyxXbMhQBjLbAOPm>

Link for 2nd half (1.30 pm to 3.30 pm) - <https://us02web.zoom.us/join/tZAVc-CoqD4uEtYPv5m8aPTu57m80xSMerv8>

Note -

Students need to join accordingly on each day

Sr. No.	Date	Schedule	Session Topic
1	23/08/2021	10 am to 12 pm	Change Management
		1.30 pm to 3.30 pm	Confidence building
2	24/08/2021	10 am to 12 pm	Perception Management
		1.30 pm to 3.30 pm	Fixed Mindset vs Growth Mindset
3	25/08/2021	10 am to 12 pm	Time and stress management
		1.30 pm to 3.30 pm	Resume Writing
4	26/08/2021	10 am to 12 pm	Business email writing and etiquette
		1.30 pm to 3.30 pm	Interview etiquette
5	27/08/2021	10 am to 12 pm	Communication- listening and 7C's of communication
		1.30 pm to 3.30 pm	Activity based on Communication- listening and 7C's of communication

	28/08/2021	10 am to 12 pm	Teamwork
		1.30 pm to 3.30 pm	Activities for teamwork
7	30/08/2021	10 am to 12 pm	Goal setting
		1.30 pm to 3.30 pm	Goal setting activity
9	01/09/2021	10 am to 12 pm	SWOT analysis
		1.30 pm to 3.30 pm	Activity to find individual's Strength and weakness
10	02/09/2021	10 am to 12 pm	Emotional wellness : Anxiety, Failure etc
		1.30 pm to 3.30 pm	Emotional wellness continued

--
 Prafulla Patil,
 IIC Coordinator,
 Vidyavardhini's College of Engineering & Technology, Vasai
 Mobile- 7710070966

--
 You received this message because you are subscribed to the Google Groups "hod vcet" group.
 To unsubscribe from this group and stop receiving emails from it, send an email to hod+unsubscribe@vcet.edu.in.
 To view this discussion on the web visit https://groups.google.com/a/vcet.edu.in/d/msgid/hod/CAPBzFLem07o1j2gS00Vjc0Tm-OiSc4ZBtg_KVXo8XV4rnr_otg%40mail.gmail.com.

List of Participants ???

Sr. No.	Student Name	Roll No.
1	Naveen Sanjeev Arora	01
2	Arya Adesh Bhosle	02
3	Shikha Chaudhary	03
4	Shlok Gaikwad	04
5	Chetan Jawale	05
6	Kartik Joshi	06
7	Priyanshu Kamble	07
8	Ronak Kela	08
9	Vinit Kurhade	10
10	Dhruv Mewada	12
11	Viraj Mhaske	13
12	Sakshi Anil Mhatre	14
13	ARPIT SUWASHCHANDRA	15
14	Diksha Mulik	16
15	Amrita Sreekumaran Nair	17
16	Nevase Chetan Bapusaheb	18
17	YASH SANJAY PATIL SMIT	19
18	Yatish Patil	20
19	Karan Patra	21
20	Devashree Kiran Pawar	22
21	Vivek Prajapati	23
22	Parth Mahendra Puri	24
23	Naina Ghanshyam Roy	25
24	Ujwal Sharma	27
25	Prathmesh Ravindra Shinde	28
26	Khushi Tiwari	29
27	Om Rajesh Tiwari	30
28	Khushi Upadhyay	31
29	REENA VAIDYA	32
30	hirenkumar vyas	33



Sr. No.	Student Name	Roll No.
1	Varun Satheesh Babu	01
2	Om Ramesh Achrekar	02
3	Polomi Adak	03
4	Akhila Anilkumar	04
5	Barwaniwala Taher Alihusain	05
6	Sanket Bhostekar	06
7	Nayan Biramane	07
8	Ayush Bhaskar Bujare	08
9	Vedant Chaskar	09
10	Hasti Datar	10
11	Vaishnavi Deshmukh	11
12	Siddharth Dhodi	12
13	Prerna Gawali	13
14	Divyen Purvesh Gharat	14
15	PARTH BHUSHAN GHARAT	15
16	Sakshi Ghonge	16
17	Pranay Narendra Gore	17
18	Pratham Ingawale	19
19	ARCHA CHETAN JADHAV	20
20	Siddhesh Jalgaonkar	21
21	Khanjan Joshi	22
22	Prerna Dinkar Kanekar	23
23	Riya Khot	24
24	Dimple Sunil Khuman	25
25	Dharmesh Nandan Marathe	26
26	Pranav Maurya	27
27	Shubham Nakashe	28
28	Hardik Nikam	30
29	Samarth Pandey	31
30	Dream Jitendrakumar Patel	33
31	Anish Anilkumar Patil	34
32	Divya Madhav Patil	35
33	Patil Kshitij Jitendra	36
34	Pranit Patil	37
35	Sanika Patil	38
36	Rohit Pawar	39
37	Pimpale rushi	40
38	Jay Prajapati	42
39	Farhan Raiba	43
40	Mohit Manish Raje	44
41	Mitali Rawat	45
42	Rohit Sachin Redekar	46
43	ADITI SANTOSH SAWANT	47
44	Rahul Shah	48
45	LOKESH SHARMA	49
46	Sheikh Aman Shamsheer	50



47	Hrushikesh Shetty	52
48	Shreyas Shinde	53
49	Ajay Laxman Shitkar	54
50	Saurabh pradeep shukla	55
51	Singh Gaurav Rajesh	56
52	Harshpratap singh	57
53	Onkar Suresh Suryavanshi	58
54	Raj Sutar	59
55	Radha Vishwakarma	63
56	Rohit walke	64
57	Sachin Yadav	65
58	Sayali M Thakre	4076926
59	Gupta Anand Tribhuvan	7129521



Sr. No.	Student Name	Roll No.
1	Abbasali agharia	01
2	Shubhankar Bhattacharya	03
3	Dikshant Buwa	04
4	Yash Chand	05
5	Janvi Ravindra Chavan	06
6	Karan Choudhary	07
7	Sakshi Dagur	08
8	Janhavi Janardan Desale.	09
9	Jayesh Berde	2
10	Harshkumar Devmurari	10
11	Kaustubh Gawade	13
12	Vedant Avinash Gholap	14
13	Vedantika Ghorpade	15
14	Sahil Gujral	16
15	Jignesh Gurav	17
16	HARIJAN RITIK	18
17	Jayesh Rajendra Ingale	19
18	Mayank Jadhav	21
19	Siddhi Suresh Jangam	22
20	Aayush Sanjay Jha	23
21	Prinshi Jha	24
22	Aditya Joshi	25
23	Khushali	26
24	Deven kalathiya	27
25	Manav Mangesh Kawale	28
26	Kuckian Gautham Pravin	29
27	Dinesh Appa Madhav	30
28	Samarth Nilesh Mane	31
29	Shivam pandey	32
30	Bhavik Dharmesh Maru	32
31	Devang Mate	33
32	Arshdeep Singh Matharo	34
33	Naman Mehta	35
34	Karan Madhukar Naik	37
35	Mrunmayee Subhash Naik	38
36	Sanskriti Hitendra Nijai	40
37	Manas Parab	41
38	Urvashi Nimeshkumar Pate	42
39	Hritik Pathak	43
40	Jidnyasa Patil	44
41	Niyati Rajendra Patil	45
42	Patil Tanvi	46
43	Rameshwar sanjay pawar	47
44	Vishal Chandrakant Phatka	48
45	Rohan pisol	49
46	Faizan Raiba	50



47	Chirag Thanth	51
48	preet raut	52
49	Vrushti Sanghavi	53
50	Yash Sankhe	54
51	Kunal Sharma	55
52	Dipti sharnagat	56
53	Prathamesh Shinde	57
54	Abhay Shukla	58
55	Arpit Sutariya	59
56	Prathmesh Eknath Thakare	61
57	Dipanshu Vartak	62
58	Prajwal Umesh Vishwakarn	63
59	Tejas Wani	65
60	Shubham umesh warik	66
61	Dhanesh Subhashchandra	67



Sr. No.	Student Name	Roll No.
1	ANIKET BIRA BARKADE	2
2	Dipesh bhatt	3
3	Dhanal Ghanshyam Chaudhari	6
4	Ghanekar pranit uday	6
5	DHRUVIT BHUPENDRA CHAUDHARI	7
6	KAJARE RAJ PRABHAKAR	8
7	Rakesh Raghunath chavan Rakesh	8
8	Sahil Shailesh chavan	9
9	Kiran mate	9
10	RISHABH MAURYA	10
11	NIHARIKA DAS	11
12	Ashish Pawar	12
13	Krutarth Deshpande	12
14	Omkar Dhuri	15
15	Harshit Bharat Raul	15
16	Viraj Thakur	16
17	Bikash Ghadei	18
18	NIKUNJ KALSARIYA	26
19	Soham Jitendra Karvir	27
20	Samarth kole	29
21	Pratham Kirit Makwana	30
22	Omkar Rajendra Malusare	32
23	Umesh Mourya	34
24	Soham Murudkar	35
25	Nilesh pal	37
26	Swapnil Paste	39
27	Anuj Patil	42
28	Harshit Ganesh Patil	43
29	Sahil Pritam Patil	44
30	Tisha Paul	47
31	Sachin Rai	49
32	Suraj Yadav	59
33	Amit Bansod	200572102
34	Bhingale Aashish Shamrao	200602101
35	Omkar Yogesh Bhoir	200612101
36	Rohit Choudhary	200662101
37	Manohar Devadiga	200692101
38	DHINDE VISHAL VISHRAM	200702103
39	prashant dubey	200722101
40	Vivekkumar Rakesh Gaud	200732101
41	PRITAM GUCHHAIT	200752101
42	Vikas Jayprakash Gupta	200772101
43	Sameer Halde	200782102
44	Utkarsh Jondhalekar	200802109
45	Dhruv Narendra Kadam	200812112
46	Khan Nabil Zahir	200842101



47	Pratham Nitin Makwana	200872101
48	PREET JITENDRA MHATRE	200892105
49	SUYOG PRADEEP NAIK	200922101
50	Ronak Patel	200962101
51	Suraj Umesh Patel	200972101
52	Yash Patil	201022105
53	Rayan Pereira	201042101
54	Aniket Sagavekar	201062105
55	Mitali Salve	201072202
56	Atharva Vaidya	201112101
57	Krish Vaity	201122109
58	Suyash Sanju Dalvi	202867101
59	Harsh Dhembare	202877101
60	Niranjana kadam	202907105
61	Chandrashekhar mishra	202947101
62	Sujay Rane	202977101



Sr. No.	Student Name	Roll No.
1	Saurav Shingade	1
2	Yash aher	2
3	Aditi Bhat	3
4	Chinmay Bhoir	4
5	Mrudula Bidvi	5
6	Sumant Shankar Ganiga	9
7	Riddhi Arun Garudkar	10
8	Deven Gharat	11
9	Aastha Gulhane	13
10	Jangid Nilesh Gulab	14
11	Shubham Jha	15
12	Omkar Joshi	16
13	Yash Joshi	17
14	Nikhil Kargatia	18
15	Soham Kavathkar	19
16	Ishika Prasad Kalpana Kini	20
17	Shraddha Kobnak	21
18	Shikhar Mehta	22
19	Ankit mestry	23
20	Sahil mhapadi	24
21	Shashank Mishra	25
22	Vaibhav Mishra	26
23	Raj Surendra Pal raj.200261101@vcet.edu.in	27
24	ANKIT PANDEY	28
25	Manthan Patil	30
26	Mayank Patil	31
27	PRADNYESH PATIL	32
28	Vijay Rajaram Patil	33
29	PRATHAMESH SHANKAR PETHE	34
30	Omkar Rane	35
31	Shrushti Rane	36
32	Smit Shailendra Rane	37
33	TUHIN SAHA	38
34	Sarvesh Sant	39
35	JAYESH SAWANT	40
36	kimaya shejwalkar	41
37	Suraj Shelar	42
38	Shubham Shukla	43
39	Pawan singh	44
40	Pinanshu Surve	45
41	Dhanashree Tandel	46
42	Sourabh Teli	47
43	Chandan Thakur	48
44	Preet Nimesh Thakur	49
45	Tapan Thorat	50
46	Priya Kamlesh Vadera	51



47	ROHAN.R.VISHWAKARMA	52
48	Sourabh Prakash Wade	53
49	Akshat Waghmare	54
50	Kishan kumar yadav	55
51	Ninad Yadav	56
52	VIKAS YADAV	57
53	Achintya Nagar	61
54	Saurabh Chavan	200051101
55	Shivani Sandesh Falari	200071201
56	Siddhesh Parab	200281101



Sr. No.	Student Name	Roll No.
1	Hrishikesh Avinash Adhau	1
2	Aakash Bhandari	3
3	Poonam Bhavsar	4
4	Dipak borase	5
5	Tanuj Bordikar	6
6	Rijul Tiwari	7
7	Anish Subhash Dalvi	10
8	Vaishnavi Vijay Deokar	11
9	Shravani Gavali	12
10	Vishal Gupta	13
11	Manaswi Jadhav	14
12	Shlok shetty	16
13	Abhishek Jani	17
14	Zaid Bashir Khan	18
15	JAYESH KHANDARE	19
16	Saurabh Jagtap	20
17	Siddhi Kolwankar	21
18	Raj Srivastav	23
19	Neel Lopes	24
20	Mayank Mahajan	25
21	Suraj Sachin Mahto	26
22	Kedar Malap	27
23	Himadri manna	28
24	Nagzarkar Vinish Vikas	30
25	Rushikesh parab	31
26	SHREEYA ARUN PANCHAL	33
27	Sahaj Saliya	34
28	Shreya Parchurkar	35
29	Tanmay Patel	36
30	Akshata patil	37
31	Gaurav Phatkare	38
32	Sudesh Shamu Rajad	40
33	Viraj Rane	41
34	Sakshi Ranjan Sankhe	43
35	SAHIL SALIAN	44
36	Sanskriti Rajkumar Kokare	45
37	Harsh Vijay Sawant	46
38	PRATYUSH	47
39	Vatsal shah	48
40	Fawaz Shaikh	49
41	Nihal Shaikh	50
42	Shobhit Kumar Singh	51
43	Vikram Shitole	53
44	PRADIP Pal	54
45	Pallavi Thakur	56
46	Rishabh Nahar	57



47	Rishabh Nahar	57
48	Aditya Trivedi	58
49	Jayesh	60
50	Tanishka Wani	61
51	Aman Yadav	63
52	Riddhi Chavda	64
53	Anuj M. Urunkar	102
54	Devyani Bhakare	201834205
55	Harsh Churi	201904111
56	Omkar Jadhav	201964101
57	Shreyash Kothi	202034106
58	Anish Mohite	202104102
59	Yash Raut	202234105
60	Rakesh Ramchandra Zore	202454107



Sr. No.	Student Name	Roll No.
1	Ghanekar Omkar Ramesh	23
2	Prashant Kamble	26
3	Prerna Kasar	27
4	Ajit jagannath mahale	31
5	Jeevan Ramchandra Medge	32
6	Krutik patil	34
7	Sahil Rathod	37
8	Vishal Asaram Rathod	38
9	Kimaya Satish Salunkhe	40
10	Harsh sharma	42
11	Gaurang Umesh Thakur	44
12	Rohan Belure	202586101
13	Prajakta Borse	202596205
14	Jeet Ghelani	202636101
15	Aditya Uttam Kute	202686105
16	Chetan Lande	202696101
17	Manas Raut	202776105
18	Saish sankhe	202806108



Sr. No.	Student Name	Roll No.
1	Riya Dutta	59
2	Siddhant Lokare	60
3	Atish Dipak Rakte	63
4	Shreya Shridhar Shetty	64
5	Sharandeep suri	65
6	VARUN TATKARE	66
7	Vishal Purushu	67
8	HETSI PARMAR	202505201



To,
The Principal,
VCET, Vasal

Subject Proposal for Internship of third year (After V sem) students.

Respected sir,


As per our discussion about the TE Internship program, IIC is planning an Internship program from 6th December 2021 to 17th December 2021. After pandemic offline Internship are planned in our campus at Siemens center of excellence, Texas Instrument innovation lab, AVIVA center of excellence and E-Yantra Robotic lab. Only fully vaccinated TE students will be allowed for the Internship. Detailed proposal is as follows,

Sr. No.	Venue	Internship Topics	Positions Available
1.	Siemens Center of Excellence	<ol style="list-style-type: none"> 1. PLC Basics: Need and benefit of automation; PLC system: applications of PLC, PLC modules, I/O module, Communication module, PID module 2. PLC Functions: PLC registers, PLC timer function, PLC counter function, PLC simple arithmetic and logical functions, PLC ladder logic diagram, Advanced PLC functions, Sequencer function, Output analog and digital devices 3. Engineering Software TIA Portal: Product Lifecycle Management, Digital Enterprise Suite, TIA Portal – Central Engineering Framework, Scope of the Products, Automation License Manager, TIA Portal: Portal View and Project View, Window Arrangement Saving a Project, Archiving / Retrieving a Project 4. SIMATIC S7-1200 with STEP7 V15: System Overview, PLC Tags, Programming Blocks, Troubleshooting & Trace Functionality, Memory card binding, Web server with user defined Web Pages, PID block 	25
2.	Texas Instruments Innovation Lab	<ol style="list-style-type: none"> 1. Microcontroller basics and programming fundamentals. <ol style="list-style-type: none"> a) Arduino – 8-bit Microcontroller b) MSP 430 Launch Pad – 16-bit Microcontroller c) Tiva C launch pad – 32-bit Microcontroller 2. Interfacing of Sensor, actuators with Microcontroller 3. Communication Protocols 4. Introduction to Internet of Things (IoT) 5. Applications using Blynk and Things cloud 	30

3.	E-Yantra Robotics Lab	<ol style="list-style-type: none"> 1. Introduction to Fire Bird V robot 2. Introduction to AVR Micro-controller and Programming environment 3. Simple Motion Control using I/O ports 4. Robot velocity control using pulse width modulation 5. Introduction to LCD Interfacing 6. Analog sensor Interfacing using Analog to Digital conversion 7. Interrupt programming 8. Robot programming for white line following 9. Project-Application Development using Fire Bird Robot V- RESTAURANT ASSISTANT: ORDER TAKING ROBOT 	28
4.	AVIVA Center of Excellence	<ol style="list-style-type: none"> 1. Introduction to P&ID using AVEVA software. 2. Introduction to P&ID using MS Excel. 3. Introduction to P&ID symbol. 4. Introduction to Field Instruments revision. 5. Reading P&ID And AVEVA practice session. 6. Introduction to different modules of AVEVA 	20

Please permit this such that I can plan accordingly.


 Prafulla Patil,
 Coordinator, IIC

Approved




eYantra Robotics Internship

Year	SE (any discipline)
Number of students	28 (7 groups* 4 students/group)
Topic	Application Development on Fire Bird V Robot
Duration	2 weeks
Resources	Fire Bird V Robot and accessories from eYantra Robotics Laboratory
Venue	eYantra Robotics Laboratory

Objective:

To impart hands-on training using the Firebird V Robot.

To introduce the students to embedded systems and microcontroller and programming of AVR microcontroller.

Outcomes:

At the end of the course the students will be able to:

Develop program in AVR microcontroller environment

Develop applications using Fire Bird V Robot

Detail Contents

Day 1

Module 1. Introduction to Fire Bird V robot

- 1.Introduction to the basic components and features of Atmega 2560 based Firebird V.
- 2.This module will include discussion about the sensors, communication,power options and programming aids for Firebird V

Module 2. Introduction to AVR Micro-controller and Programming environment

1. I/O port programming of Atmega 2560 and writing the very first program for Firebird V.
- 2.This module will also involve installation of the required software and description of the programming environment

Day 2

Module 3. Simple Motion Control using I/O ports

- 1.This module involves discussion about the motor driver IC L293D and its interfacing on the Firebird V platform.
- 2.Apart from this, direction control of Firebird V using I/O port assignments will form an integral part of this module.



Module 4. Robot velocity control using pulse width modulation

- 1.Introduction to pulse width modulation (PWM) for speed control and description of the inbuilt registers to generate PWM signal.
- 2.A simple experiment to gradually increase/decrease the robot's velocity using PWM to better assimilate the topic.

Day 3

Module 5. Introduction to LCD interfacing

- 1.Introduction to the on board 16x2 LCD and its hardware interfacing on the Firebird V platform.
- 2.Description about the command sequences for LCD interfacing and allied hands on experiments related to LCD programming.

Module 6. Analog sensor interfacing using Analog to Digital conversion

- *Interfacing with white line sensors, *Interfacing with Infrared range finder sensor**

- 1.Description of the inbuilt ADC module and the sensors connected to its channels on the Firebird V.
- 2.Hands on experiment to read and interpret the digital equivalent of the analog value indicated by the on board sensors.

Day 4

7. Interrupt programming *Closed loop position control of robot using position encoders

- 1.Overview about the general mechanism for interrupt handling, description of the inbuilt position encoders and using the combination of the two to control the distance traversed by the robot.
- 2.An experiment based on precise control of linear as well as angular motion of Firebird V will also be a major part of this module.

8. Robot programming for white line following

- 1.Introduction to basic white line following algorithm.
2. An experiment to program the robot to follow a line on a white line strip

Day 5-10: Project-Application Development using Fire Brid Robot V

Dr. Megha Trivedi


HOD, Computer Engineering



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering
Academic Year : 2021-22

eYantra Robotics Internship-Schedule

Sr. No.	Date	Name Of Faculty	Content Delivered
	13/12/2020	Mr. Prafulla Patil	Sensors, Actuators
1	13/12/2021	Dr. Megha Trivedi	velocity Control Pulse width Modulation in firebird V, Timer counter register 5
2	14/12/2021	Dr. Megha Trivedi	programming environment, Installation of software, I/O port programming
3	15/12/2021	Dr. Madhavi Waghmare	Motion Control: Basic movements of robot, Motor driver L293D, Motor interface on firebird
4	16/12/2021	Dr. Madhavi Waghmare	Velocity Control Pulse width Modulation in firebird V, Timer counter register 5
5	17/12/2021	Ms. Deepti Patne	LCD Interfacing-Introduction, LCD Programming, ADC Interfacing-ADC Conversion, Coding
6	20/12/2021	Dr. Madhavi Waghmare, Mrs. Deepti Patne	Interfacing with white line sensors, Interfacing with Infrared range finder sensor
7	21/12/2021	Mrs. Shaista Khanam, Mrs. Trupti Shah	Interrupt handling, White line following
8	22/12/2021	Dr. Madhavi Waghmare, Mrs. Deepti Patne	Task 1-6
9	23/12/2021	Dr. Madhavi Waghmare, Mrs. Deepti Patne	
10	24/12/2021	Dr. Madhavi Waghmare, Mrs. Deepti Patne	


Dr. Megha Trivedi
Co-ordinator,
Eyantra Laboratory




Department of Computer Engineering

EYantra Robotics Internship

13/12/2021 to 24/12/2021

Sr. No.	Name Of Student	Class	Branch	Exam Seat No (ID Number)
1.	Divya Chaudhari	TE	IT	191784205
2.	Ankit Pramod Shetty	TE	EXTC	190441101
3.	Mrunmayi Patankar	TE	IT	192124205
4.	Chinmay Subodh Raut	TE	EXTC	S204111105
5.	Omkar Sitaram Sadadekar	TE	EXTC	s204121105
6.	Vishwakarma Pankaj Sukhsagar	TE	Instrumentation	192675101
7.	Divya Dilip Sakre	TE	IT	192214205
8.	Insha Mulla	TE	IT	192054201
9.	Manthan Sarfare	TE	IT	192244101
10.	Isha Kule	TE	IT	191974205
11.	Anjana Babu Pattan	TE	Instrumentation	192565201
12.	Pritish Sanjay Mair	TE	Computer	191323101
13.	Aniruddha Anil Kamble	TE	EXTC	S204051102
14.	Mishra Vishwas Kumar Ashok	TE	Mechanical	190812101
15.	Mrudul Dalvi	TE	Mechanical	193167101
16.	Shubham Irakar	TE	Mechanical	190702107
17.	Varad Takke	TE	Mechanical	191022105
18.	Chetan K. Parave	TE	Mechanical	S204272101
19.	Kushte Udesb Prashant	TE	Mechanical	190742105
20.	Hrishikesh Waghmare	TE	Mechanical	191092102
21.	Devang Raut	TE	Mechanical	190932105
22.	Shivam Rajendra Bhadane	TE	Mechanical	193147105
23.	Viraj Gupta	TE	Mechanical	193247101
24.	Maruti More	TE	Computer	S204433112
25.	Gurjinder Dhaman	TE	Mechanical	193207201
26.	Soham Waghmare	TE	Computer	191743102
27.				
28.				


Dr. Megha Trivedi
Coordinator,
Eyantra Robotics Laboratory

13/12/2021

Sr. No.	Name of Student	Class	Branch	Exam Seat No (ID Number)
✓ 1	Divya Chaudhari	TE	IT	191784205
✓ 2	Ankit Pramod Shetty	TE	EXTC	190441101
✓ 3	Mrunmayi Patankar	TE	IT	192124205
✓ 4	Chinmay Subodh Raut	TE	EXTC	S204111105
✓ 5	Omkar Sitaram Sadadekar	TE	EXTC	s204121105
✓ 6	Vishwakarma pankaj suksagar	TE	Instrumentation	192675101
✓ 7	Divya Dilip Sakre	TE	IT	192214205
✓ 8	Insha Mulla	TE	IT	192054201
✓ 9	Manthan Sarfare	TE	IT	192244101
✓ 10	HARSH GAJENDRA PATIL	TE	Instrumentation	192545105
11	Isha Kule	TE	IT	191974205
✓ 12	Anjana Babu Pattan	TE	Instrumentation	192565201
✓ 13	Pritish Sanjay Mair	TE	Computer	191323101
✓ 14	Aniruddha Anil Kamble	TE	EXTC	S204051102
✓ 15	Amandeep Jaiswar	TE	Mechanical	193297101
✓ 16	Prashant sahu	TE	Mechanical	193477101
✓ 17	Mishra Vishwas Kumar Ashok	TE	Mechanical	190812101
✓ 18	Mrudul Dalvi	TE	Mechanical	193167101
✓ 19	Shubham Irakar	TE	Mechanical	190702107
✓ 20	Varad Takke	TE	Mechanical	191022105
✓ 21	Chetan K. Parave	TE	Mechanical	S204272101
✓ 22	Kushte Udesb Prashant	TE	Mechanical	190742105
✓ 23	Hrishikesh Waghmare	TE	Mechanical	191092102
✓ 24	ANKUR SAMIR SAHA	TE	Mechanical	193467101
✓ 25	Devang Raut	TE	Mechanical	190932105
✓ 26	Shivam Rajendra Bhadane	TE	Mechanical	193147105
✓ 27	Viraj Gupta	TE	Mechanical	193247101
✓ 28	Mahesh Vijay Pachpande	TE	Mechanical	193377105

- ✓ 29 Maruti More TE Computer. S204433112
- ✓ 30 GURJINDER DHIMAN TE MECHANICAL ~~19326401653~~ 193207201
- ✓ 31 Soham Waghmare TE Computer ~~19388628683~~ 191743102



eYantra Robotics Internship-Report

Program	eYantra Robotics Internship
Title	Application Development on Fire Bird V Robot
Duration	13/12/2021 to 24/12/2021
Organized by	EYantra Robotics and Embedded System Laboratory and IIC VCET
Faculty	Dr. Megha Trivedi Mr. Prafulla Patil Dr. Madhavi Waghmare Mrs. Deepti Patne Mrs. Shaista Khanam Mrs. Trupti Shah
Description	<p>13/12/2021 Resource Person: Mr. Prafulla Patil, Dr. Megha Trivedi Topics Covered: Introduction to the basic components of Atmega 2560 based Firebird V: Sensors, Actuators</p> <ul style="list-style-type: none">• Features of Atmega 2560 based Firebird V <p>Task:</p> <ul style="list-style-type: none">• Identification of the component on Firebird V• Turning ON Firebird V on Battery and Auxilliary Power mode <p>14/12/2021 Resource Person: Dr. Megha Trivedi Topics Covered:</p> <ul style="list-style-type: none">• Introduction to AVR Micro-controller and Programming environment• Installation of AVR Studio• Installation of AVRDude• I/O port programming of Atmega 2560• Buzzer Programming <p>Task:</p> <ul style="list-style-type: none">• Buzzer Beep after a delay <p>15/12/2021 Resource Person: Dr. Madhavi Waghmare Topics Covered:</p> <ul style="list-style-type: none">• Motion Control○ Basic Movement of Robot○ Motor Interfacing on Firebird <p>Task:</p> <ul style="list-style-type: none">• To move firebird in forward.reverse, Left and Right direction• To move firebird in Circular motion



16/12/2021

Resource Person: Dr. Madhavi Waghmare

Topics Covered:

- Velocity Control PWM control
- Pulse Width Modulation
- Registers

Task:

- To move firebird in different speed for circle , rectangle and square
- To move firebird in different speed for Star shape

17/12/2021

Resource Person: Mrs. Deepti Patne

Topics Covered:

- Introduction to the on board 16x2 LCD and its hardware interfacing on the Firebird V platform.
- Description about the command sequences for LCD interfacing and allied hands on experiments related to LCD programming.

Task:

- Display message on LCD

20/12/2021

Resource Person: Dr. Madhavi Waghmare, Mrs. Deepti Patne

Topics Covered:

- Interfacing with white line sensors, Interfacing with Infrared range finder sensor

Task:

- Draw a figure-star

21/12/2021

Resource Person: Mrs. Shaista Khanam, Mrs. Trupti Shah

Topics Covered:

- Interrupt handling, White line following

Task:

- Draw a circle and speed with speed variation

22/12/2021

Resource Person: Dr. Madhavi Waghmare, Mrs. Deepti Patne

Task:

- 1,2

23/12/2021

Resource Person: Dr. Madhavi Waghmare, Mrs. Deepti Patne

Task:

- 3,4



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year : 2021-22

24/12/2021

Resource Person: Dr. Madhavi Waghmare, Mrs. Deepti Patne

Task:

- 5,6

Sign. with Date

24/12/2021



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering

05/07/2021

To,
The Principal
Vidyavardhini's College of Engineering and Technology
Vasai

50_Refresher
Course

Subject: Permission for organizing Refresher course for the BE students

Respected Sir,

We, in the department of Computer Engineering of Vidyavardhini's College of Engineering and Technology would like to arrange a Refresher course for the Final Year students of our department from 1st to 5th August 2021. The course will be taking by the faculty of our department itself through online mode.

We believe that this course will be helpful for them for their placement preparations.

Sir, kindly consider the request and give the permission to conduct the course.

Thanking You,

Yours Sincerely,

Tatwadarshi P. Nagarhalli

Approved

Forwarded.

HEAD

Dept. of Computer Engg. i
Vidyavardhini's College of
Engineering and Technology,
Vasai Road 401 202



Report on
Refresher Course

Date: 1st to 5th August, 2021

Time: 2 - 9 PM

Speaker: Smita Jawale, Sneha Mhatre and Tatwadarshi P. N.

Organized by: Computer Engineering Department, VCET

Mode: Google Meet

Refresher course on the following subject were taken

1. Analysis of Algorithm
2. Database Management System
3. Data Structures
4. Operating System
5. Computer Networks

The Refresher course was attend by all the students of the BE class.

Prepared by

Dr. Tatwadarshi P. N.



Types of Notations

- ▶ Big - Oh (O) notation (Upper Bound) Worst case
- ▶ Big - Omega (Ω) notation (Lower Bound) Best case
- ▶ Theta (Θ) notation (Tight Bound) Average case

Dr. T. J. Kulkarni P. B.

C

computer wet

DCL

Data control language:-

Grant commands are used to give permissions

Revoke commands are used to take out permissions

GRANT all

On emp

To u1,u2;

REVOKE all

On emp

From u1;

mer google.com a sharing you - 100% - 100% - 100%

C

computer wet



Refresher Course for BE 2021-22

Mode of Conduction: Online

Google Meet Link: meet.google.com/vxs-ybvq-odm

Important: Students will be provided certificate of completion only if they attend 4 out of the 5 sessions.

Schedule

Sr. No.	Subject	Date and Time	Faculty
1.	Analysis of Algorithms	01/08/21 7pm to 9pm	Tatwadarshi P. N.
2.	Database Management Systems	02/08/21 2pm to 4pm	Smita Jawale
3.	Data Structures	03/08/21 2pm to 4pm	Tatwadarshi P. N. / Sneha Mhatre
4.	Operating System	04/08/21 2pm to 4pm	Smita Jawale
5.	Computer Networks	05/08/21 2pm to 4pm	Sneha Mhatre

Tatwadarshi P. N.

AY: 2021-22

Student list for Refresher course

Vidyavardhini's College of Engineering and Technology

Industry Institute Interaction Cell

6th June. 2022

To,
The Principal,
VCET, Vasai

Subject Proposal for Internship of VCET students.

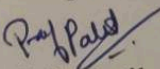
Respected sir,

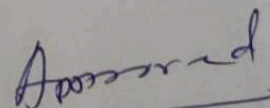
As per our discussion about the Internship program, IIC is planning an internship program from 20th June 2022 to 1st July 2022. Offline internships are planned in our campus at Siemens center of excellence, Texas Instrument innovation lab, E-Yantra Robotic lab, Internship in Data Science and Internship in Building Services, Repairs & Personality Development. Students willing to do Internships can register for this program with registration fee of 200 rupees. Detailed proposal is as follows,

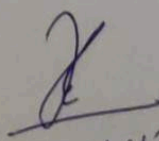
Sr. No.	Venue	Internship Topics	Positions Available
1.	Siemens Center of Excellence	<ol style="list-style-type: none"> 1. AC Motor Basics (construction, principle of operation, T-N Characteristic etc) 2. AC Drives Basics (Block diagram, 1Q-4Q principle of operation, T-N Curves etc. 3. Selections, calculations & applications of typical AC drives. 4. AC Drives (Sinamics G) - Ratings, Specs, features, options & applications. 5. Brief Basic Power Electronics (including Thyristors, Power-Transistors & IGBTs) 6. DC Motor Basics (construction, principle of operation, T-N Characteristic etc) 7. DC Drives Basics (Block diagram, 1Q-4Q principle of operation, T-N Curves etc) 8. Selections, calculations & applications of typical DC drives 9. Siemens DC Drives (6RA80) - Ratings, Specs, features, options & applications. 	25
2.	Texas Instruments Innovation Lab	<ol style="list-style-type: none"> 1. Microcontroller basics and programming fundamentals. <ol style="list-style-type: none"> a) Arduino – 8-bit Microcontroller b) MSP 430 Launch Pad – 16-bit Microcontroller c) Tiva C launch pad – 32-bit Microcontroller 2. Interfacing of Sensor, actuators with Microcontroller 3. Communication Protocols 4. Introduction to Internet of Things (IoT) 5. Applications using Blynk and Things cloud 	30

E-Yantra Robotics Lab	<ol style="list-style-type: none"> 1. Introduction to Fire Bird V robot 2. Introduction to AVR Micro-controller and Programming environment 3. Simple Motion Control using I/O ports 4. Robot velocity control using pulse width modulation 5. Introduction to LCD interfacing 6. Analog sensor interfacing using Analog to Digital conversion 7. Interrupt programming 8. Robot programming for white line following 9. Project-Application Development using Fire Brid Robot V- RESTAURANT ASSISTANT: ORDER TAKING ROBOT 	28
4. Internship in Data Science	<ol style="list-style-type: none"> 1. Introduction to Data Science Fundamentals 2. Overview of Machine Learning 3. Overview of Statistical Learning 4. Supervised Vs Unsupervised Learning 5. Regression Vs Classification 6. Regression and Classification Models (Linear Regression, Logistic Regression, Naive Bayes, K-Nearest Neighbour) 7. Tree based Models (Random Forest) 8. Unsupervised Learning models 9. Data Visualization 10. Data Processing / Engineering 11. Implementing Machine Learning Models 12. Evaluating Learning Models 13. A minimum of 5-10 case studies 	20
5. Building Services, Repairs & Personality Development	<ol style="list-style-type: none"> 1. Problems & Diagnostic Methods for Distress structures 2. Methods of NDT 3. Types of Paints & Application 4. Chemicals used in Construction Industry and its Application 5. Site Visit for Structural Audit 6. Personal Productivity Development 7. Water Proofing 8. Fire and Electrical Audit of Building 	30

Please permit this such that I can plan accordingly.


Prafulla Patil,
Coordinator, IIC




6/6/2022



Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering

Report on
Internship on Data Science

51_Training on
Data Science

Class: SE/TE

Date of Conduction: 20/06/2022 to 01/07/2022

Description:

An internship was conducted by Vidyavardhini's College of Engineering and Technology in Association with Mumbai Metropolitan Region Development Authority for SE and TE of the college on 'Data Science'. The Internship was kept open for all the students.

A Total of 50 students of different branches attended the internship.

The internship was conducted using the following schedule,

Day	Time	Session	Topics
1	10 am – 12 pm	Theory Session – 1	Introduction to Data Science
	01 pm – 03 pm	Practical Session – 1	Installation of Python Installation of IDE Basics of Python
2	10 am – 12 pm	Theory Session – 2	Introduction to Statistical Learning Introduction to Machine Learning
	01 pm – 03 pm	Practical Session – 2	Working with Iris Dataset Packages – Numpy and Pandas Read from package, read from external, displaying data information



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

3	10 am – 12 pm	Theory Session – 3	Supervised Vs Unsupervised Learning Regression Vs Classification Regression and Classification Models Linear Regression (Measuring)
	01 pm – 03 pm	Practical Session – 3	Working with Boston Dataset (Case Study – 1) Training and Testing Model
4	10 am – 12 pm	Theory Session – 4	Classification Models Logistic Regression, Naive Bayes, K-Nearest Neighbour Support Vector Machine
	01 pm – 03 pm	Practical Session – 4	Working with Iris Dataset (Case Study – 2)
5	10 am – 12 pm	Theory Session – 5	Classification Models Neural Network Tree Based ID3 Ensemble Approach Random Forest
	01 pm – 03 pm	Practical Session – 5	Wine Quality Classification (Case Study – 3)
6	10 am – 12 pm	Theory Session – 6	Feature / Data Engineering Type of Data (Discrete and Continuous) Working with both type of data (Interchanging) Working with Missing values

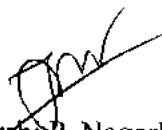


Vidyavardhini's College of Engineering & Technology
Department of Computer Engineering

			PCA
	01 pm – 03 pm	Practical Session – 6	Titanic Dataset (Case Study – 4)
7	10 am – 12 pm	Theory Session – 7	Unsupervised Learning Models
	01 pm – 03 pm	Practical Session – 7	Walmart Sales Forecasting (Case Study – 5) Black Friday Sales (Case Study – 6)
8	10 am – 12 pm	Theory Session – 8	Working with text
	01 pm – 03 pm	Practical Session – 8	Data Visualization Text Mining Dataset (Case Study – 7) Human Activity Recognition (Case Study – 8)
9	10 am – 12 pm	Theory Session – 9	Introduction to Deep Learning
	01 pm – 03 pm	Practical Session – 9	Census Income (Case Study – 9)
10	10 am – 12 pm	Session – 10 Test	Problem Statement (Case Study – 10)
	01 pm – 03 pm	Session – 10	Valedictory

At the end of the internship the students were able to work on 10 case studies and have uploaded these case studies on their GitHub account. The list of GitHub accounts has been attached.

Prepared by


Dr. Tatwadarshi P. Nagarhalli

C Language

[52_C language](#)[Future Bright Technology - FBT](#)[Learn Digital Marketing](#)[Learning Often Happens in Classrooms but It. Doesn't Have to](#)[Website](#)[Directions](#)

Learn C language in Hindi through FREE videos

If you are new to the programming world and confused about which language should you learn among several programming languages, then vanish out all your confusions and learn C language in Hindi. Even if you want to excel in other programming language then also it is worth learning.

This course will give you all required knowledge to make computer programs. You will be learning about all the common and elementary ingredients of programming languages. We recommend you to follow all the lectures in a sequential manner to gain it maximum.

C language is also useful in campus preparation and learning various aspects of computer fundamentals.

Watch videos to learn C language in the simplest way possible. Here is the list of videos

Installation setup guide

How to install code blocks

How to use code blocks for C language

Begin Course

Lecture 1: Introduction to C Language Part-1 (Hindi)

Lecture 1: Introduction to C Language Part-2 (Hindi)

[© x](#)

All In 1 Place

[MongoDB Atlas](#)[Sig](#)[Lecture-1: Introduction to C Language Part-3 \(Hindi\)](#)

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ⓘ
X

MongoDB Atlas

ⓘ

Lecture-2: Identifiers in C Language Part 1 (Hindi)
 Lecture-3 Data Type Declaration Instruction in C Part 1 (Hindi)
 Lecture-4 Input Output Instruction in C Part 1 (Hindi)
 Lecture-4 Input Output Instruction in C Part 2 (Hindi)
 Lecture-4 Input Output instruction in C Part 3 (Hindi)
 Lecture 4 Input Output Instruction in C Part 4 (Hindi)
 How to use gotoxy in code blocks Hindi
 What are ASCII codes?
 Lecture-5 Arithmetic Instruction in C Part 1 (Hindi)
 Lecture-5 Arithmetic Instruction in C Part 2 (Hindi)
 Lecture-5 Arithmetic Instruction in C part 3 (Hindi)
 Modulus Operator (%) in C Hindi
 Lecture-5 Arithmetic Instruction in C Part 4 (Hindi)
 Bitwise NOT (~) Operator in C language (Hindi)
 Lecture-5 Arithmetic Instruction in C Part 5 (Hindi)
 Lecture-5 Arithmetic Instruction in C Part 6 (Hindi)
 Lecture-5 Arithmetic Instruction in C Part 7 (Hindi)
 Conditional Operator (?) in C language
 Compound Assignment Operator
 Lecture-6 Decision Control in C Part 1 (Hindi)
 Lecture-6 Decision Control in C Part 2 (Hindi)
 Lecture-6 Decision Control in C Part 3 (Hindi)
 Nested if else in C language
 if else ladder in C language

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Reply

Lecture-7 Loops in C Part 1 (Hindi)
 Lecture-7 Loops in C Part 2 (Hindi)
 Lecture-7 Loops in C Part 3 (Hindi)
 Lecture-8 Switch case in C Part 1 (Hindi)
 Lecture-9 Functions in C Part 1 (Hindi)
 Lecture-9 Functions in C Part 2 (Hindi)
 Lecture-9 Functions in C Part 3 (Hindi)
 Lecture-9 Functions in C Part 4 (Hindi)

When to use an array | Hindi

Lecture-13 Strings in C Part 1 (Hindi)

Lecture-13 Strings in C Part 2 (Hindi)

Lecture-14 Pointers in C Part 1 (Hindi)

Lecture-14 Pointers in C Part 2 (Hindi)

Lecture-15 Application of Pointers in C Part 1 (Hindi)

Lecture-15 Application of Pointers in C Part 2 (Hindi)

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Lecture-15 Application of Pointers in C Part 3 (Hindi)

Lecture-15 Application of Pointers in C Part 4 (Hindi)

Lecture-15 Application of pointers in C Part 5 (Hindi)

Lecture-16 Structure in C Language Part 1 (Hindi)

Lecture 16 Structure in C language Part 2 Hindi

Lecture-17 union in C Language Part 1 (Hindi)

Lecture-18 Dynamic Memory Allocation in C Language Part 1 (Hindi)

Lecture-18 Dynamic Memory Allocation in C language Part 2 (Hindi)

Lecture-19 Enumerators in C Language (Hindi)

Lecture-20 typedef in C language (Hindi)

Lecture-21 Preprocessor Command #include in C Language (Hindi)

Lecture-22 Preprocessor Command #define #undef in C Language (Hindi)

Lecture-23 Preprocessor Commands in C Language (Hindi)

Lecture-24 File Handling in C Language (Hindi)

Lecture-25 Writing in a file in C Language (Hindi)

Lecture-26 File Opening Modes in C Language (Hindi)

Lecture-27 Reading from a file in C Language (Hindi)

Lecture-28 Reading from file using fgets in C Language (Hindi)

Lecture-29 Writing in a file using fputs in C Language (Hindi)

Lecture-30 Writing file using fwrite function in C language (Hindi)

Lecture-31 Reading from a file using fread in C language (Hindi)

Lecture-32 Writing in a file using fprintf function in C language (Hindi)

Lecture-33 Reading from a file using fscanf function in C language (Hindi)

Lecture-34 Storage classes in C Language Part 1 of 2 (Hindi)

Lecture-34 Storage classes in C language Part 2 of 2 (Hindi)

Lecture-35 Bit Fields in C Language (Hindi)

Lecture-36 Command Line Arguments in C language (Hindi)

Lecture-37 How to use graphics in code blocks in C language (Hindi)

Lecture-38 How to draw circle, rectangle, line in C graphics (Hindi)

Lecture-39 How to draw an ellipse in C graphics (Hindi)

Lecture-40 How to set drawing color in C graphics (Hindi)

Lecture-50 const in C Language (Hindi)

Special Lectures on Pointers in C

What is Wild Pointer in C Language (Hindi)

What is NULL Pointer in C language(Hindi)

What is void pointer in C language (Hindi)

What is dangling Pointer in C language (Hindi)

What is function Pointer in C language? (in Hindi)

Quick Links

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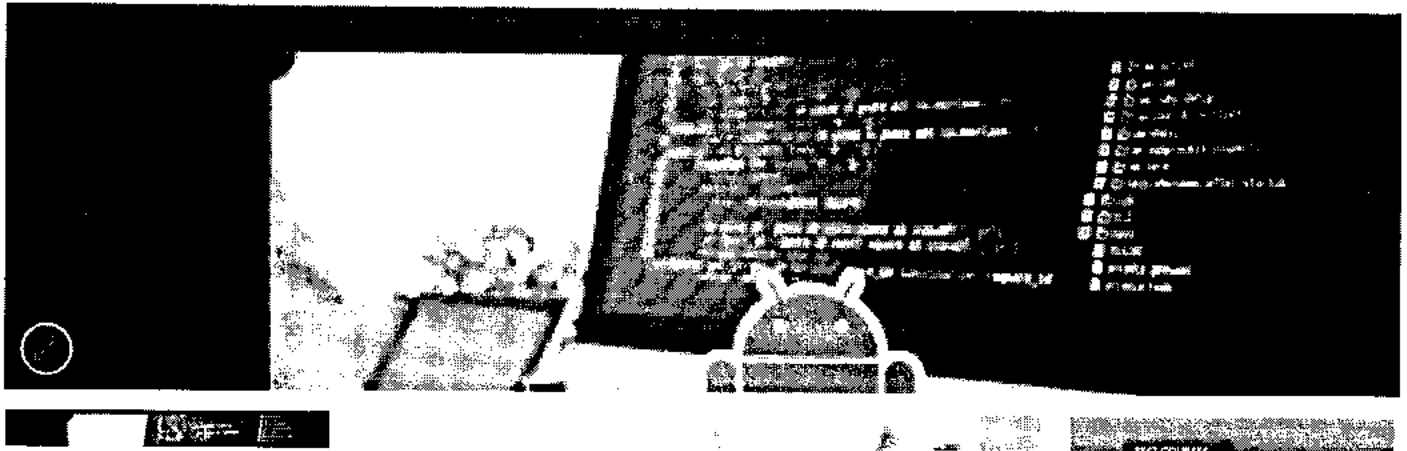
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DESCRIPTION COURSE CONTENT SKILLS YOU WILL LEARN PROJECTS

Mission

Android Development is a powerful tool for creating mobile applications for the Android platform. With its open-source framework and comprehensive set of tools, anyone can create an app that can be distributed and used on any Android device. Whether you're a beginner or an experienced developer, this course will help you learn how to develop apps for the Android platform. Android App Development Course teaches you how to set up your development environment, understand activities and fragments, create your first app, work with views and layouts, add event listeners, consume web services, save data, and publish your app. You'll also explore best practices, testing, debugging and other important concepts.

By the end of this course, you'll have a strong foundation in Android Development and the skills to begin building your own apps. Learn to build Android apps from scratch and how industry experts design Android Architectures. Use some of the famous libraries, and design a beautiful User Interface.

Android App Course Description

Produce cloud-connected Android apps, and learn the tools, principles, and best practices of mobile and Android development that you'll apply to your own projects.

How can I help you?



General requirements

You are enthusiastic and motivated to learn. Participation in this course requires consistently meeting project deadlines and active participation.

Program-Specific Requirements

You have access to a computer with an internet connection, on which you'll install the latest Android Studio with SDK 23.

You can independently solve and describe your solution to a math or programming problem.

Course Content

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Android App Development Course



Module 1

Module 2

Module 3

Module 4

Module 5



Module 6

Module 7

Module 8

Module 9

Module 10

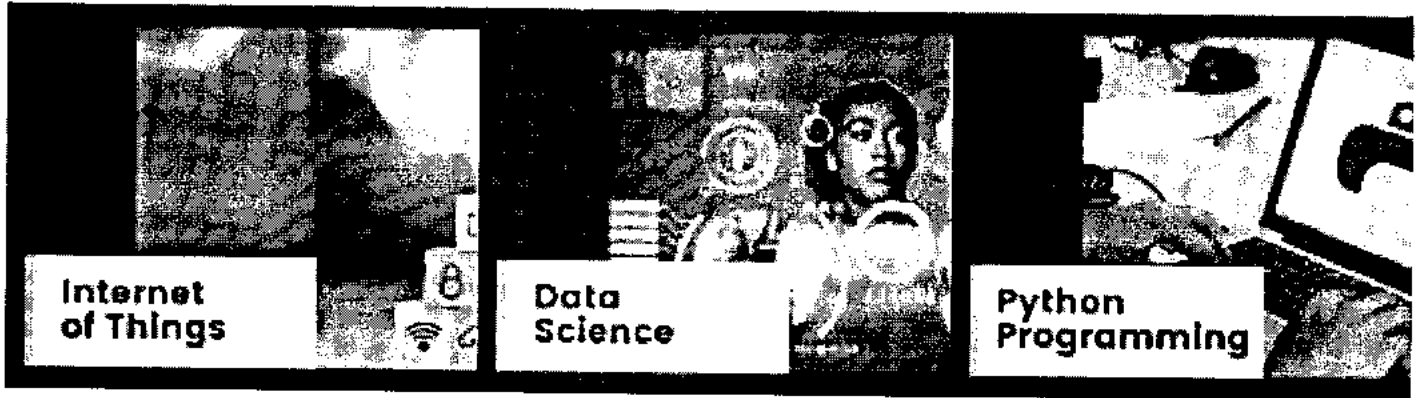
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Course

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33 hours (approximately)

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Skills you'll gain

[Powershell](#) [Linux File Systems](#) [Linux](#) [Command-Line Interface](#)

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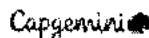
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- Earn a shareable career certificate from Google



Earn a career certificate

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There are 6 modules in this course coursera

In this course – through a combination of video lectures, demonstrations, and hands-on practice – you'll learn about the main components of an operating system and how to perform critical tasks like managing software and users, and configuring hardware.

By the end of this course you'll be able to:

- navigate the Windows and Linux filesystems using a graphical user interface and command line interpreter
- set up users, groups, and permissions for account access
- install, configure, and remove software on the Windows and Linux operating systems
- configure disk partitions and filesystems
- understand how system processes work and how to manage them
- work with system logs and remote connection tools
- utilize operating system knowledge to troubleshoot common issues in an IT Support Specialist role

[Read more](#)






Navigating the System

Module 1 • 5 hours to complete

[Module details](#) ^

Welcome to the Operating Systems course of the IT Support Professional Certificate! In the first module of this course, we will cover the basics of Windows and Linux operating systems (OS). We will learn about how directories and files work in Windows and Linux OS. You will also learn practical ways to manipulate files and directories in the Windows graphical user interface (GUI), Windows command line interface (CLI), and Linux shell. By the end of this module, you will interact with files and directories and perform basic text manipulation in Windows and Linux OS.

What's included

 32 videos  10 readings  2 quizzes  2 app items  3 discussion prompts

[Show info about module content](#)






Users and Permissions

Module 2 • 4 hours to complete

[Module details](#) ^

In the second module of this course, we'll learn about configuring users and permissions in Windows and Linux OS. As an IT Support Specialist, it's important to know how to grant the appropriate permissions to users and groups for both Windows and Linux OS. By the end of this module, you will know how to add, modify, and remove users for a computer and for specific files and folders by using the Windows GUI, Windows CLI, and Linux shell.

What's included

 16 videos  5 readings  2 quizzes  2 app items  1 discussion prompt

[Show info about module content](#)






Package and Software Management

Module 3 • 6 hours to complete

[Module details](#) ^

In the third module of this course, we'll learn about package and software management in Windows and Linux OS. It's important to know how package installs work and how devices and drivers are managed within these operating systems. We will also learn about different packaging and file compression methods. By the end of this module, you will know how to create, update, and remove software by using the Windows GUI, Windows CLI and Linux shell.

What's included

 16 videos  18 readings  4 quizzes  2 app items  1 discussion prompt

[Show info about module content](#)

Filesystems

Module 4 • 5 hours to complete

[Module details](#) ^

In the fourth module of this course, we'll learn about how filesystems work for Windows and Linux OS. We'll learn about filesystem types and why they're different for certain OS. We'll learn about disk partitioning and virtual memory and why these are so important for an IT Support Specialist's role. We'll also cover ways mount and unmount filesystems, read disk usage, and repair filesystems. By the end of this module, you will

partition and format a disk drive yourself in both Windows and Linux.



What's included

- ▶ 16 videos
- 📖 10 readings
- 📝 2 quizzes
- 📁 2 app items
- 💬 1 discussion prompt

> Show info about module content

Process Management

Module 5 • 5 hours to complete

Module details ^

In the fifth module of this course, we'll explore process management. As an IT Support Specialist, it is important to use system tools to read and understand process statuses of machines. We will cover ways to start and terminate a process in Windows and Linux. We will also apply troubleshooting tools to solve problems with processes and resources. By the end of this module, you will use Windows and Linux commands to do practical process maintenance.

What's included

- ▶ 14 videos
- 📖 9 readings
- 📝 4 quizzes
- 📁 2 app items
- 💬 1 discussion prompt

> Show info about module content



Operating Systems in Practice

Module 6 • 5 hours to complete

Module details ^

Congratulations, you've made it to the final module in the course! In the last module of this course, we will cover some of the practical aspects of operating systems that you'll use all the time in IT Support. We will cover remote access and how to troubleshoot a computer from afar. We'll explore virtualization tools to manage and remove virtual instances, use logs for system monitoring, and show you a few different techniques for OS deployment. By the end of this module, you will apply all the skills from this course to debug some issues within Windows and Linux OS. Good luck!

What's included

- ▶ 16 videos
- 📖 11 readings
- 📝 3 quizzes
- 📁 2 app items
- 💬 4 discussion prompts

> Show info about module content

Instructor



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VJ

★ 5 · Reviewed on Jul 5, 2020

Well , quite wonderful ! Windows ws abit tougher than the linux . some command syntax are long which require much practice .

THank you so much Cindy and all your hard work pays off . Cheers !!!!

BV

★ 4 · Reviewed on Jun 4, 2018

Should of separate the lessons in a way where it compliments one another. Windows by itself and Linux by itself instead of mixing it one after another (Windows then Linux). But either way, good videos

WS

★ 5 · Reviewed on Jul 25, 2018

It's a great pleasure to learn how to deal with Operating systems with GUI, Powershell, and Linux. This course is definitely useful for those who wish to become a power user in operating systems.

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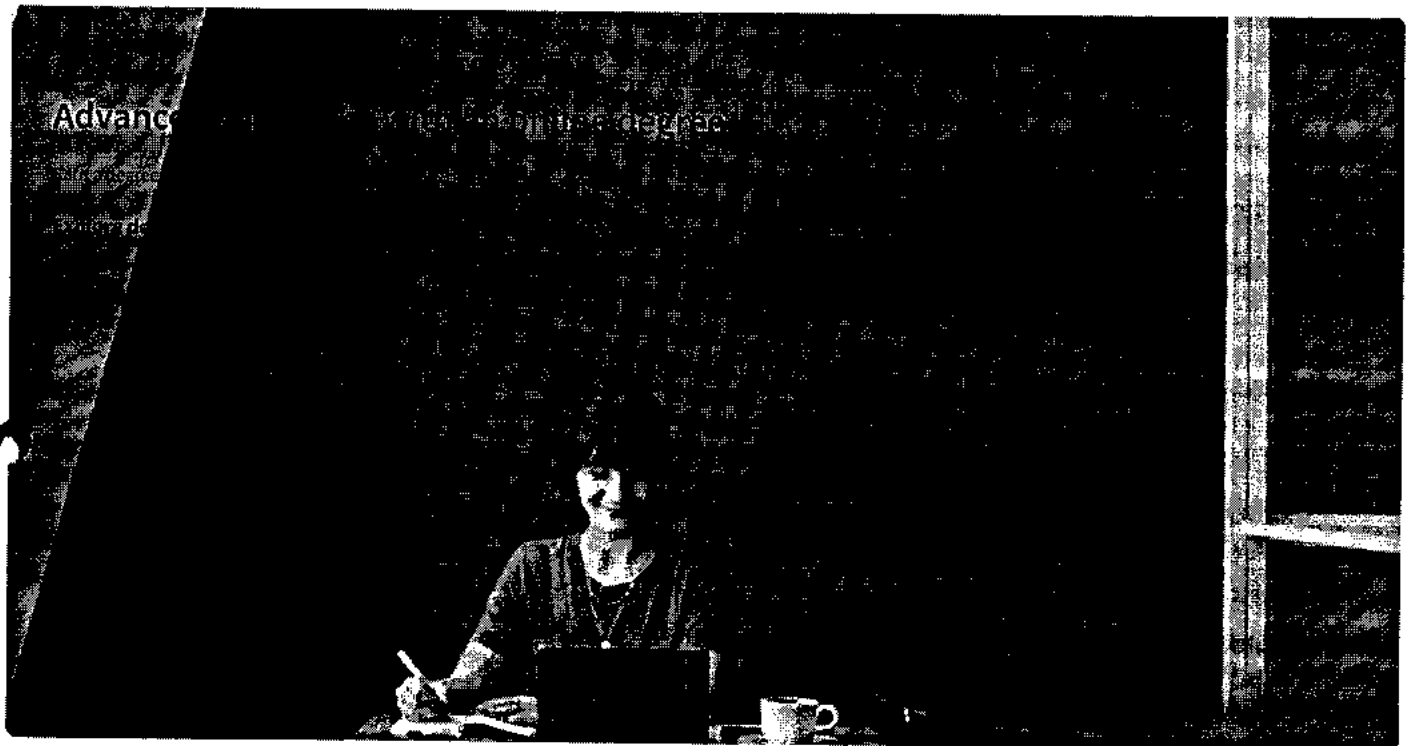
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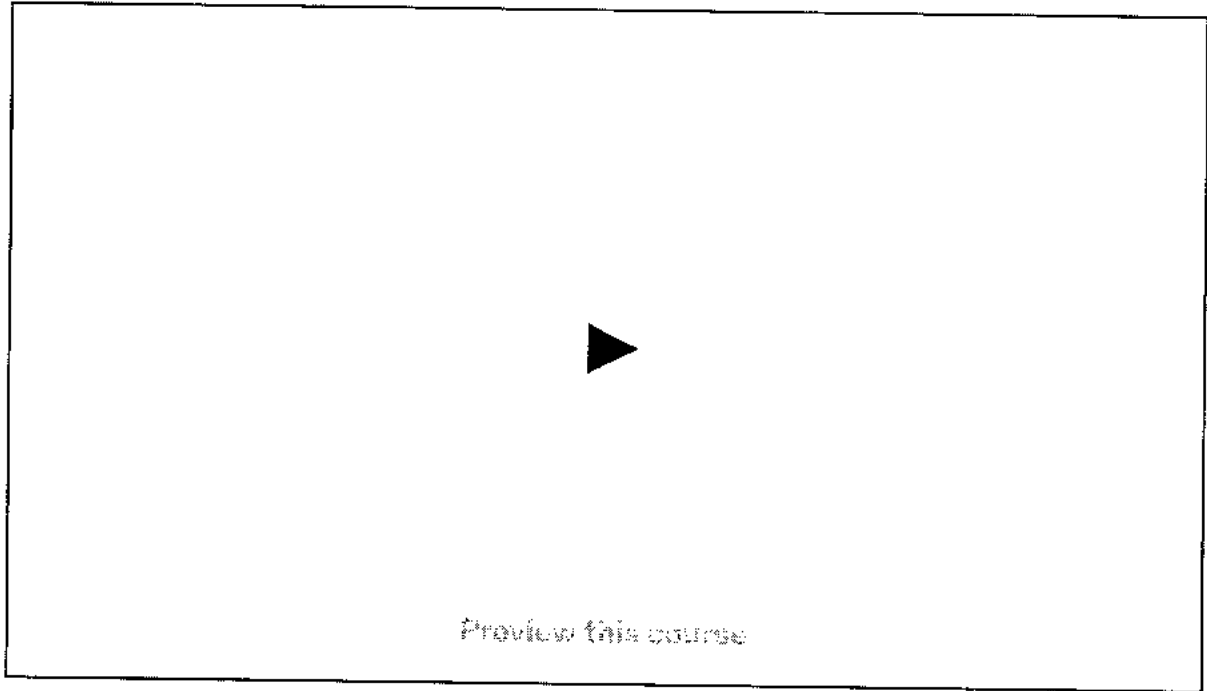
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- ✓ Write your own Decorators and higher order functions
- ✓ **Show confidence** work with Lambdas!
- ✓ Build games with Python
- ✓ Work with all the Python data structures: lists, dictionaries, sets, tuples, and more!
- ✓ Master built-in python functions like zip and filter
- ✓ Write your own custom modules
- ✓ Work through nearly 200 exercises and quizzes!
- ✓ Use Python to create an automated web crawler and scraper
- ✓ Master the quirks of Python style and conventions
- ✓ Learn testing and TDD (Test Driven Development) with Python
- ✓ Write your own Generators and other Iterators
- ✓ Master tricky topics like Multiple Inheritance and Polymorphism
- ✓ Build larger projects that span across multiple files
- ✓ Become an expert at list and dictionary comprehensions
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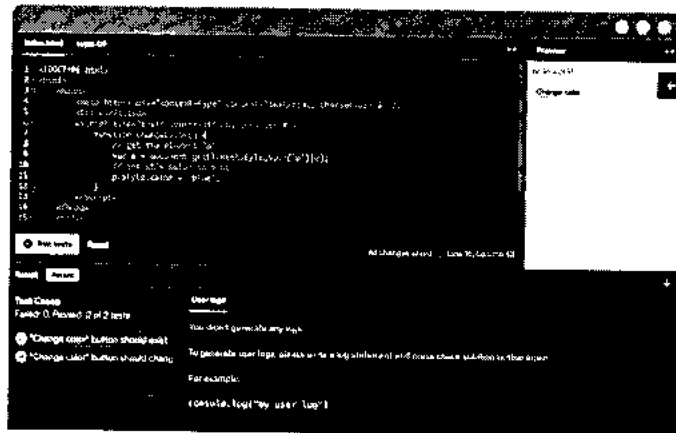
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6 lectures • 28min

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[How The Exercises Work](#)

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03:24

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🔍	Command Line Fundamentals	▼	4 questions
▶	Making Directories with MKDIR		02:59
▶	Creating Files with TOUCH		04:48
▶	Quick Activity: Salamanders and Frogs		04:07
▶	Moving and Renaming with MV		05:29
▶	Deleting Files with RM		02:03
▶	Deleting Directories (Plus Tangents on Permissions and MAN Pages)		08:26
🔍	Command Line Fundamentals II	▼	3 questions
^	WINDOWS Command Line Fundamentals		8 lectures • 38min
▶	Why Do You Need The Command Line?		04:58
▶	Using Powershell	▼	04:45
▶	Paths, LS, and PWD		04:35
▶	Using The CD Command		08:05
🔍	Command Line Fundamentals (Windows)		4 questions
▶	OPTIONAL: Making Directories with MKDIR		03:29
▶	OPTIONAL: Making Files (it's...complicated)		06:41
📄	Creating a Touch Function		00:54
▶	OPTIONAL: Removing Files and Folders with RM		04:47

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▶ Important Note on Print and the Python Interpreter 03:20

^ **WINDOWS Python Setup** 5 lectures • 19min

▶ Installing Python On a PC 05:31

▶ Introducing Sublime Text 04:15

▶ Your First Python Program 06:00

<> Print Your Name 1 question

📄 SOLUTION 00:05

▶ Important Note on Print and the Python Interpreter 03:20

^ **Numbers, Operators, and Comments** 6 lectures • 22min

▶ Section Introduction/Objectives 02:32

▶ Numbers: Ints and Floats 05:02

♀ Quick Ints and Floats Quiz ▾ 2 questions

▶ Numbers: Basic Math 02:57

♀ Basic Math Refresher ▾ 3 questions

▶ Quick Note: Comments 04:30

♀ One Question Quiz 1 question

▶ Numbers: Weirder Operators 05:00

○ Numbers Quiz 3 questions

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▢ SOLUTION	00:00
▶ Variable Naming Restrictions and Conventions	06:18
▶ <u>Data Types Overview</u>	<u>Preview</u> 07:53
▶ <u>What The Heck is Dynamic Typing</u>	<u>Preview</u> 02:32
📍 Super Quick One Question Quiz!	1 question
▶ The Special Value NONE	03:25
▶ Double Vs. Single Quotes	03:45
<> Make Some Variables!	1 question
▢ SOLUTION	00:15
▶ String Escape Sequences	05:01
<> Escape Sequence Practice	1 question
▢ SOLUTION	00:15
▶ String Concatenation	05:33
<> String Concatenation Exercise	1 question
▢ SOLUTION	00:10
▶ String Formatting	03:53
<> Formatting Strings	1 question
▢ SOLUTION	00:08
▶ Strings and Indexes (Indices?)	03:00
▶ Converting Data Types	05:48
▶ Building a Mileage Converter With User Input	10:39

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<>	Number is Odd	1 question
📄	SOLUTION	00:06
▶	Multiple Elifs	02:05
▶	A Word on Truthiness + A Quick Example	06:25
▶	The Joy of Comparison Operators	05:53
▶	Logical AND & OR	06:52
<>	Food Classifying Exercise	1 question
📄	SOLUTION	00:09
▶	LOGICAL NOT	07:27
♀	Boolean Logic Principles ▾	6 questions
▶	A Note on Is Vs. ==	05:17
▶	Bouncer Code-Along and Nested Conditionals	12:50
♀	Boolean & Conditional Logic in Python ▾	3 questions
<>	Positive or Negative Checking	1 question
📄	SOLUTION	00:22
<>	Calling in Sick	1 question
📄	SOLUTION	00:18
^	Rock, Paper, Scissors	6 lectures • 34min
▶	Rock, Paper, Scissor Mini Project: BASIC Version ▾	03:04

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📄 Section Introduction	07:50
📄 IMPORTANT ANNOUNCEMENT ON LOOPS EXERCISES	00:23
📄 The Basics of For Loops	06:30
📄 Exploring Ranges In Depth	06:02
👤 Quick Ranges Quiz	4 questions
<> For Loop and Range Exercise	1 question
📄 SOLUTION	00:31
📄 EXERCISE: Screaming Repeating	04:01
📄 EXERCISE: Unlucky Numbers	08:33
📄 Introducing While Loops	09:01
📄 EXERCISE: Emoji Art	08:48
📄 EXERCISE: Stop Copying Me	04:36
📄 The Break Keyword	04:34
👤 Stuck in a Loop	3 questions
<> While Loop Exercise	1 question
📄 SOLUTION	00:15
👤 Loops	4 questions

26 more sections

Requirements

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this course is fully built around the coding exercises. This course is all about getting you writing code ASAP, rather than sitting back watching a bunch of videos.

In development, I referred to this course as a **hybrid between a typical Udem course and an interactive Codecademy-style course**. You get over 25 hours of in-depth videos and my dumb jokes along with meticulously created exercises and quizzes to test your knowledge as you go.

Show more ▾

Many of the older Python courses still focus on Python 2. This course is all about writing the **most modern, up-to-date Python code**, so Python 3 was the obvious choice. The course covers all the latest additions and changes to the Python language. The course also places a large emphasis on thinking like a Python developer, and writing code the "Pythonic" way.

As for the curriculum, This course teaches all the key topics covered by other Python courses, but also covers more advanced topics like web scraping, crawling, and testing, just to name a few. Please feel free to explore the curriculum and watch some of the free preview videos!

Python is consistently ranked in either first or second place as the **most in-demand programming languages** across the job market. It has applications in data science, machine learning, web development, self-driving cars, automation, and many many other disciplines.

There has never been a better time to learn it!

I've spent years teaching people to program at in-person bootcamps in the San Francisco Bay Area. In recent years, I've started bringing my methods from the classroom to the online world. In my first year teaching online, I was selected as the **Best Newcomer Instructor in the Udem Instructor Awards 2015**. I'm passionate about making the best possible online learning experiences that mirror my in-person courses.

If you want to take ONE COURSE to master Python take this course.

Who this course is for:

- Anyone who wants to learn Python.
- Anyone who is curious about data science, machine learning, or web development
- Anyone who wants to get tons of practice with the interactive exercises.

Featured review




Ian K.

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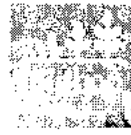
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


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₹3,199 

36 total hours • Updated 12/2022

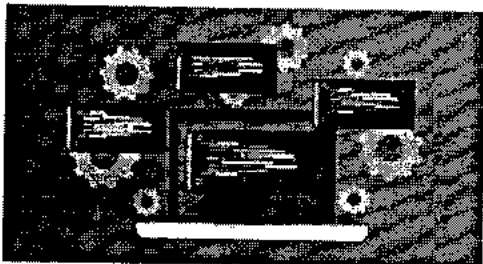
 **Total Python: You Can Master Python Programming in 16 Days** 4.6 ★  26,753 ₹549
₹3,899 

26.5 total hours • Updated 10/2023

 **Python 3: Deep Dive (Part 3 - Dictionaries, Sets, JSON)** 5.0 ★  24,998 ₹449
₹3,199 

22 total hours • Updated 12/2022

The Modern Python 3 Bootcamp ₹449
4.7 (28,962 ratings) 113,177 students ₹3,199



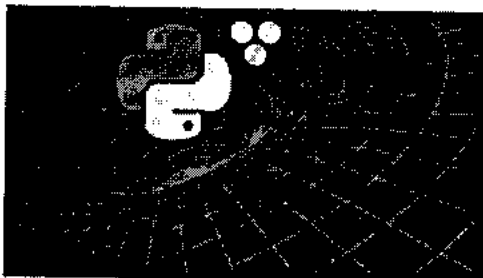
The Modern Python 3 Bootcamp

Colt Steele

4.7 ★★★★★ (28,962)

~~₹449~~

₹3,199



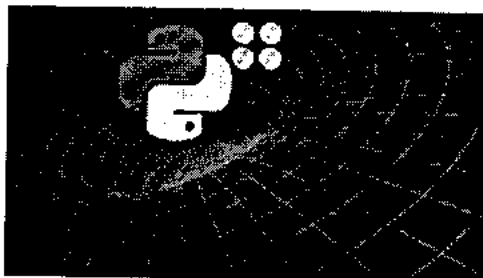
Python 3: Deep Dive (Part 3 - Dictionaries, Sets,...)

Dr. Fred Baptiste

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~~₹3,199~~



Python 3: Deep Dive (Part 4 - OOP)

Dr. Fred Baptiste

4.8 ★★★★★ (2,768)

₹449

~~₹3,199~~

Total: **₹1,347** ~~₹9,597~~

Add all to cart

Instructor

Colt Steele

Developer and Bootcamp Instructor

The Modern Python 3 Bootcamp
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... full-time developer roles. I also worked at Udacity as a **Senior Course Developer** on the web development team where I got to reach thousands of students daily.

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I've since focused my time on bringing my classroom teaching experience to an online environment. In 2016 I launched my **Web Developer Bootcamp course**, which has since gone on to become one of the best selling and top rated courses on Udem. I was also voted **Udem's Best New Instructor of 2016**.

I've spent years figuring out the "formula" to teaching technical skills in a classroom environment, and I'm really excited to finally share my expertise with you. I can confidently say that my online courses are without a doubt the most comprehensive ones on the market.

Join me on this crazy adventure!

★ 4.7 course rating • 29K ratings



Samuel Agus S.

★★★★★ 3 weeks ago



Maryna C.

★★★★☆ a month ago



this is very good to start your journey for python

Helpful?

It would be better if final exercise chapter covered all previous topics to some extend. It covered mostly dictionaries and lists.

Helpful?



John P K.

★★★★★ 2 months ago



David F.

★★★★★ 3 months ago



I really had gained some new knowledge from this course. Colt breaks it down and made it easy for us

If you're looking to really get your game on and learn Python, THIS is the course to do so. This is the second course I've

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The Modern Python 3 Bootcamp
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₹3,100

Vidyavardhini's College Of Engineering and Technology

Date: 11/01/2019

To
The Principal
VCET, Vasai (W)

Subject: Permission for starting new batch of German Language Course

Respected Sir,

Since last 3 years we have started German language course in our college.

We would like to start new batch from the beginning of this semester. The course consists of A1 German language syllabus.

The registration process will get start after getting permission from you.

The course will be conducted only on Monday 5.00 to 7.00 pm.(Only 1 day in a week) It will get adjusted according to holidays on Monday. The course will take approximately 52 hours.

The registration fees for this course is Rs.2500/- only.

Kindly do the needful.

Thanking You.

Yours faithfully,

Yogesh P. Pingle

Prof. Yogesh P. Pingle
German language Teacher

Expected Students	30 Students	40 Students	50 Students
Total Income	30*2500 = 75000/-	40*2500=100000/-	50*2500=125000/-
Remuneration@500Rs. Per Lecture * 52	26000/-	26000/-	26000/-
Book Cost @780Rs. Per Student	30*780=23400/-	40*780=31200/-	50*780=39000/-
Profit To College	25600/-	42800/-	60000/-

Surplus remitted to

* Last year Permission Letter and permission letter from management are enclosed.

Kindly permit as it is part of softskills development

11/01/2019

HOD IT

confirmed & paid as per resolution
Permitted

To Registrar /
Accounts

Approved
The Remuneration to
resolution

11/01/18



Syllabus

Subject Code	Subject Name	Examination Scheme					
		Theory Marks		Term Work	Practical	Oral	Total
		Internal assessment	End Sem. Exam				
		Test1					
A1	German Language	20	40	20	--	20	100

Module – 1

(12Hr) CO1

1. Alphabets, Compound letters and their pronunciations
2. Practice pronunciations
3. Chapter 1 (Conversation)
4. Cases and Personal Pronoun, The Verb: Present Tense (Regular Verbs)
5. The Verb (Special Verbs) sein and haben
6. Chapter 2 (Conversation)
7. Possessive Pronoun, Demonstrative Pronoun and Reflexive pronoun
8. Numbers
9. Chapter 3 (Conversation)
10. Frage (Questions) pronouns: Wer (who) and Was (what)
11. Days, Months, Years
12. Myself, Our Family

Module – 2

(12Hr) CO2

1. Types of Verbs
 - a. Regular Verbs & Irregular Verbs
 - b. Transitive & Intransitive Verbs
 - c. Strong & Separable Verbs
 - d. Modal Verbs
2. Conjugation of Verbs
3. Chapter 4 (A Journey)
4. Nouns - Declination
5. Word Order – Sentence formation
6. Chapter 5 (A friend Comes)
7. Chapter 6 (2 Hours in Munchen)
8. Prepositions with Dative (Local and Temporal)



9. Prepositions with Accusative (Local and Temporal)
10. Timings

Module - 3

(14Hr)

CO3

1. Meals and Timings
2. Chapter 7 (Conversation)
3. Modal Verbs in detail
4. Chapter 8 (My House)
5. Prepositions with Dative or Accusative
6. Articles depending on action and / or position (wohin and wo)
7. Describe the picture
8. Chapter 9 (A journey)
9. Genitive Case
10. Past Tense (Imperfect)
11. Perfect Tense
12. Verb Conjugation Schemes (Present – Past – Perfect)

Module - 4

(14Hr)

CO4

1. Daily Routine (Morning till evening)
2. Letter writing
3. Adjective Declination
4. Ja-nein-doch (Different answers – yes, no)
5. Neben sentences (Composite sentences) – because, that
6. Relative Sentences
7. Colours, Vegetables, fruits
8. Internet / Computer Vocabulary
9. Email Writing
10. Writing Resume (Bio Data)

Text Books:

1. "Deutsche Sprachlehre für Ausländer", by Dora Schulz, Heinz Griesbach, Max Hueber Verlag
2. "Netzwerk Deutsch als Fremdsprache A1", by Helen Schmitz Stefanie Dengler, Paul Rusch, Langenscheidt; First Indian Edition 2015 edition (2015)

Online References:

1. https://www.youtube.com/channel/UCPK3Vd_cdMZ35q6DWE1KFSA
2. https://onlinecourses.nptel.ac.in/noc21_hs30/preview
3. https://onlinecourses.nptel.ac.in/noc19_hs50/preview



Vidyavardhini's College of Engineering & Technology
German Club (Established in 2016)

Assessment:

Internal Assessment for 20 marks:

Consisting of One Compulsory Class Test Approximately 40% to 50% of syllabus content must be covered in the test.

End Semester Examination:

End Semester Test consists of full syllabus.

Theory exam is of 40 M.

Term Work = 20 M which consists of at least 4 assignments, 4 quizzes.

Oral Exam = 20 M which consists of Dictation – 5 M, Listening Comprehension – 5 M, Reading Ability – 5 M, Oral – 5 M

Jogesh P. Pingle
Jogesh P. Pingle



Vidyavardhini's College of Engineering & Technology
German Club (Established in 2016)

Batch 2019-20 and 2020-21

Sr. No.	Student Name	Department
1	Saloni Tambe	MECH
2	Isha Pise	MECH
3	Udesh Kushte	MECH
4	Atharva Dixit	MECH
5	Tushar Mittal	IT
6	Granthali Jadhav	IT
7	Hardik Yewale	IT
8	Rohan Patil	INSTRU
9	Shraddha Mistry	INSTRU
10	Pritesh Mair	COMP
11	Riya Raut	INSTRU
12	Urmiksha Tawde	INSTRU
13	Abhishesk Tandel	MECH
14	Pecyush C.	INSTRU
15	Viditi Damodar	MECH
16	Manthan Sarfare	IT
17	Divya Chaudhari	IT
18	Ryan W.	INSTRU
19	Alston Cerejo	CIVIL
20	Devansh Jaiswal	INSTRU
21	Ria Mendes	MECH
22	Sakshi Tilwankar	MECH
23	Riya Patil	MECH
24	Syed Qadri	MECH
25	Anjana Pathan	INSTRU
26	Ragini Nair	INSTRU
27	Swastik Raut	INSTRU
28	Tejal Pednekar	INSTRU
29	Eesha Kolambkar	INSTRU
30	Hardik Vora	CIVIL
31	Soham Waghmare	COMP
32	Sanskriti Sankhe	IT
33	Harsh Patil	INSTRU
34	Suyash Dandekar	MECH
35	Pritesh P.	COMP

Jyeshth Ringe



Vidyavardhini's College of Engineering and Technology, Vasai

German Club - Established in 2016

Lectures (2019-2021)

Module No.	Sr. No.	Contents	Execution Date
1	1	Alphabets, Compound letters	18 Feb 2019
	2	Practice pronunciations	18 Feb 2019
	3	Chapter 1 (Conversation)	20 Feb 2019
	4	Cases and Personal Pronoun, The Verb: Present Tense (Regular Verbs)	20 Feb 2019
	5	The Verb (Special Verbs) sein and haben	27 Feb 2019
	6	Chapter 2 (Conversation)	27 Feb 2019
	7	Possessive Pronoun, Demonstrative Pronoun and Reflexive pronoun	5 Mar 2019
	8	Numbers	5 Mar 2019
	9	Chapter 3 (Conversation)	7 Mar 2019
	10	Frage (Questions) pronouns: Wer (who) and Was (what)	1 Apr 2019
	11	Days, Months, Years	1 Apr 2019
	12	Myself, Our Family	8 Apr 2019
2	1	Types of Verbs	8 Apr 2019
	2	Conjugation of Verbs	3 Jan 2020
	3	Chapter 4 (A Journey)	4 Jan 2020
	4	Nouns - Declination	18 Jan 2020
	5	Word Order – Sentence formation	22 Feb 2020
	6	Chapter 5 (A friend Comes)	22 Feb 2020
	7	Chapter 6 (2 Hours in Munchen)	29 Feb 2020
	8	Chapter 6 (2 Hours in Munchen)	29 Feb 2020
	9	Prepositions with Dative (Local and Temporal)	7 Mar 2020
	10	Prepositions with Accusative (Local and Temporal)	7 Mar 2020
	11	Prepositions with Accusative (Local and Temporal)	8 Mar 2020
	12	Timings	8 Mar 2020
3	1	Meals and Timings	5 Feb 2021
	2	Chapter 7 (Conversation)	5 Feb 2021
	3	Chapter 7 (Conversation)	13 Feb 2021
	4	Modal Verbs in detail	13 Feb 2021
	5	Chapter 8 (My House)	20 Feb 2021
	6	Prepositions with Dative or Accusative	20 Feb 2021
	7	Articles depending on action and / or position	27 Feb 2021



Vidyavardhini's College of Engineering and Technology, Vasai

German Club - Established in 2016

		(wohin and wo)	
	8	Describe the picture	27 Feb 2021
	9	Describe the picture	6 Mar 2021
	10	Chapter 9 (A journey)	6 Mar 2021
	11	Genitive Case	29 Mar 2021
	12	Past Tense (Imperfect)	29 Mar 2021
	13	Perfect Tense	31 Mar 2021
	14	Verb Conjugation Schemes (Present – Past – Perfect)	31 Mar 2021
4	1	Daily Routine (Morning till evening)	4 Apr 2021
	2	Letter writing	4 Apr 2021
	3	Letter writing	10 Apr 2021
	4	Adjective Declination	10 Apr 2021
	5	Ja-nein-doch (Different answers – yes, no)	11 Apr 2021
	6	Neben sentences (Composite sentences) – because / that	11 Apr 2021
	7	Relative Sentences	17 Apr 2021
	8	Colours, Vegetables, fruits	18 Apr 2021
	9	Internet / Computer Vocabulary	23 Apr 2021
	10	Email Writing	24 Apr 2021
	11	Email Writing	25 Apr 2021
	12	Writing Resume (Bio Data)	1 May 2021
	13	Writing Resume (Bio Data)	1 May 2021
	14	Revision	2 May 2021

Logesh Bhal

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At your own schedule
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-  **72 hacking challenges & 1 project**
To help you practice hacking
-  **Learn in English, हिन्दी**
As per your choice
-  **Doubt clearing**
Through Q&A forum

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Enroll Now

Ethical Hacking Training Syllabus

After completing the training, you can also download videos for future reference

Basics of Information Security and Computer Networking ✓
📁 9 Topics
📺 2 Demo videos inside
Information Gathering and Basics of Web Development ✓
📁 9 Topics
📺 2 Demo videos inside
Introduction to Web VAPT, OWASP and SQL Injections ✓
📁 9 Topics
Advanced Web Application Attacks ✓
📁 3 Topics
Client Side Attacks ✓
📁 7 Topics
Identifying Security Misconfigurations and Exploiting Outdated Web Applications ✓
📁 5 Topics
Automating VAPT and Secure Code Development ✓
📁 3 Topics
Documenting and Reporting Vulnerabilities ✓
📁 5 Topics
The Final Project ✓
📁 1 Topic

Ethical Hacking Course Project Details

Vulnerabilities in an e-commerce website

Using the concepts taught in the training, find all the vulnerabilities in an e-commerce website and write a VAPT report.



Vidyavardhini's College of Engineering & Technology, Vasai

Department of Civil Engineering

58_Student
Development
Program on
Surveying & Total
Station

Date: 09/04/2022

To

The Principal

VCET, Vasai

Subject: Permission for conducting SDP on "Surveying & Total Station"

Respected Sir,

I, the undersigned, Mr. Vikrant Kothari, Assistant Professor of our Civil Engineering Department request you to grant the permission to conduct SDP on "Surveying & Total Station" which is to be held between 13th April 2022 to 19th April 2022.

The speaker for the same is Mr. Fauwaz Parker and Mr. Junaid Siddique, who are Faculty Members at AIKTC, Panvel

We request you to grant us permission for the same.

Thanking you

Yours Faithfully

Mr. Vikrant Kothari

Assistant Professor

Civil Engg Department

Dr. Ajay S Radke

HOD

Civil Engg Department



Vidyavardhini's College of Engineering and Technology, Vasai

विद्यावर्धिनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई

Affiliated to the University of Mumbai.

Department of Civil Engineering

Report on “SDP on Surveying & Total Station”

Date of Program- 13th April 2022 to 19th April 2022, from 9:00 a.m. to 05:30 p.m.

No. of Participant- 94

Name of the Speakers- Mr. Fauwaz Parkar, Mr. Junaid Siddique (Assistant Professor, Department of Civil Engineering, AIKTC - Panvel)

Introduction: The Student Development Program on “Application of Microsoft Excel in Civil Engineering” took place between 13th April 2022 to 19th April 2022. The workshop aimed to provide participants with a comprehensive understanding of total stations and their applications in surveying and construction. The workshop consisted of theoretical sessions and hands-on practical exercises to enhance participants' skills and knowledge in working with total stations. The Total Station is a common surveying tool that precisely measures angles and distances by using electronic distance measurement (EDM) and electronic theodolite technology. The training course aimed to provide students with the knowledge and abilities necessary to use Total Station for surveying applications.

Session 1: Introduction to Surveying

This comprises of the topic and brief overview on the importance of surveying in various industries, Key surveying concepts, terminology, and principles, Historical development of surveying techniques, Land surveying, construction surveying, topographic surveying, boundary surveying, and more and the role of cadastral surveys and geodetic surveys.

Session 2: Levelling using Auto Level

In this session, the experts demonstrated how to setup auto level, setting of temporary and permanent benchmarks, calibration of instrument, Adjusting the Level, sighting and reading the rod, Recording the data and calculation to measure the height difference which was then followed by a practice session.

Session 3: Angle Measurement using Theodolite

In this session, the experts demonstrated how to set up the theodolite using the tripod legs and bubble level, Centring the theodolite using optical sight to align theodolite with target, measurement of horizontal angle as displayed on the horizontal circle in degrees, minutes, and seconds, measurement of vertical angle as displayed on the vertical circle in degrees, minutes, and seconds, recording of the data and interpretation using trigonometry and mathematical



Vidyavardhini's College of Engineering and Technology, Vasai

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Affiliated to the University of Mumbai.

formulas which was then followed by a practice session.

Session 4: Introduction to Total Station

This session comprises of Basics of Total Station, setting up the total station over survey points, Angle and distance measurement techniques, setting up and measuring control points, Data collection methods, Data Processing I.e. Importing and exporting survey data, Data reduction and adjustment, generating maps and reports, Application of Total Station, Error Analysis and Quality Control, Real-world examples and case studies demonstrating the use of total stations in various projects.

Session 5: Hands on Session on Total Station

In this session, the experts demonstrated how to setup and level the total station, installation of prism, turning on the total station, measure horizontal angle, measure vertical angle, measure distances, recording and saving the data for future use which was then followed by a practice session.

Session 6: Data Processing and Conclusion

In this session, the experts demonstrated how to process the data collected from total station during the practice session from the total station software to the AutoCAD to draft the drawing in the complete manner which can be further used for documentation purpose.

Conclusion:

The student development program SDP on surveying and total station provided participants with a comprehensive understanding of the fundamental principles and practical applications of surveying technology, particularly total stations. Throughout the program, participants are equipped with the knowledge, skills, and hands-on experience necessary to excel in the field of surveying and related industries.



Glimpses:



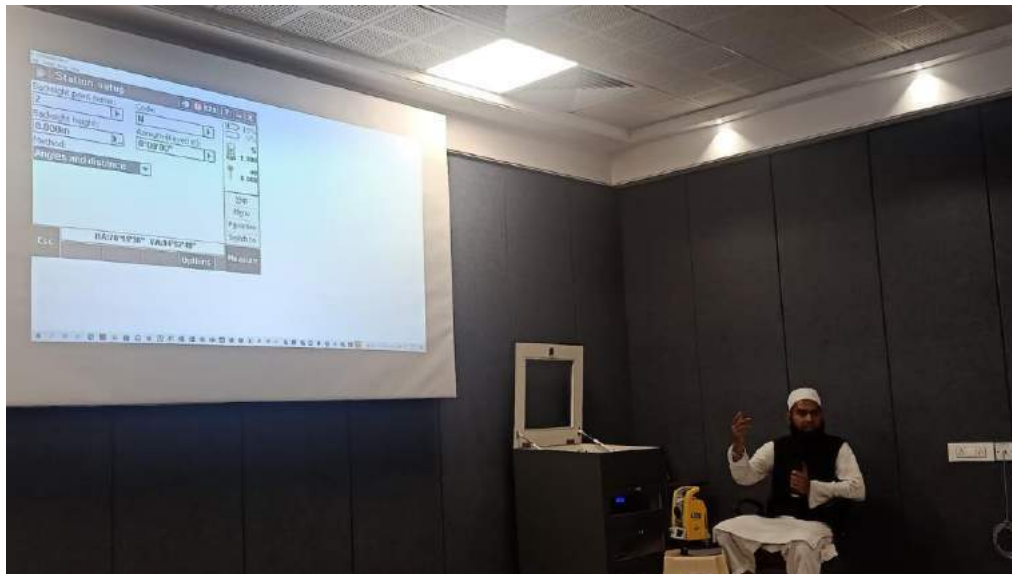
Experts explaining about the setting of total station



Experts explaining about the use of rod for data determination



Practice session done by students



Expert explaining about data processing from instrument to Computer



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Syllabus

Sr. No	Topic
1	Introduction Surveying: importance of surveying in various industries, Key surveying concepts, terminology, and principles, Historical development of surveying techniques, Land surveying, construction surveying, topographic surveying, boundary surveying, and more and the role of cadastral surveys and geodetic surveys.
2	Levelling using Auto Level: Introduction to Auto level, Practical demonstration of setting and gathering data using Auto Level, Measurement of height difference and drafting the drawings.
3	Angle measurement using Theodolite: Introduction to Theodolite and it's components, setting up theodolite and measurement of angles and distances.
4	Introduction to Total Station: Basics of Total Station, setting up the total station over survey points, Angle and distance measurement techniques, setting up and measuring control points, Data collection methods, Data Processing I.e. Importing and exporting survey data, Data reduction and adjustment, generating maps and reports, Application of Total Station, Error Analysis and Quality Control, Real-world examples.
5	Hands on Session on Total Station: Setting up Total station and measurement of angles and distances.
6	Data Processing: Processing the data using software (AutoCAD).

Schedule

Sr. No	Topic	Date	Time
1	Introduction Surveying	13/04/2022	9:00 am to 5:30 pm
2	Levelling using Auto Level	14/04/2022	9:00 am to 5:30 pm
3	Angle measurement using Theodolite	15/04/2022	9:00 am to 5:30 pm
4	Introduction to Total Station	16/04/2022	9:00 am to 5:30 pm
5	Hands on Session on Total Station	17/04/2022	9:00 am to 5:30 pm
6	Data Processing using software	19/04/2022	9:00 am to 5:30 pm

Assessment Method

At the end of the Student Development Program on “Surveying and Total Station”, the students will be awarded certificate on the successful submission of feedback for the program.



Vidyavardhini's College of Engineering and Technology, Vasai

विद्यावर्धिनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई

Affiliated to the University of Mumbai.

SDP on “Surveying & Total Station” from 13th April to 19th April 2022

Syllabus

Sr. No	Topic
1	Introduction Surveying: importance of surveying in various industries, Key surveying concepts, terminology, and principles, Historical development of surveying techniques, Land surveying, construction surveying, topographic surveying, boundary surveying, and more and the role of cadastral surveys and geodetic surveys.
2	Levelling using Auto Level: Introduction to Auto level, Practical demonstration of setting and gathering data using Auto Level, Measurement of height difference and drafting the drawings.
3	Angle measurement using Theodolite: Introduction to Theodolite and it's components, setting up theodolite and measurement of angles and distances.
4	Introduction to Total Station: Basics of Total Station, setting up the total station over survey points, Angle and distance measurement techniques, setting up and measuring control points, Data collection methods, Data Processing I.e. Importing and exporting survey data, Data reduction and adjustment, generating maps and reports, Application of Total Station, Error Analysis and Quality Control, Real-world examples.
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6	Data Processing: Processing the data using software (AutoCAD).

Schedule

Sr. No	Topic	Date	Time
1	Introduction Surveying	13/04/2022	9:00 am to 5:30 pm
2	Levelling using Auto Level	14/04/2022	9:00 am to 5:30 pm
3	Angle measurement using Theodolite	15/04/2022	9:00 am to 5:30 pm
4	Introduction to Total Station	16/04/2022	9:00 am to 5:30 pm
5	Hands on Session on Total Station	17/04/2022	9:00 am to 5:30 pm
6	Data Processing using software	19/04/2022	9:00 am to 5:30 pm

A. S. Rade

HEAD
DEPT. OF CIVIL ENGG.
Vidyavardhini's College of
Engineering & Technology
Vasai Road (W)- 401202.





Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2021-22

Assessment Method

At the end of the Student Development Program (SDP) on “Surveying & Total Station”, the students will be awarded certificate after successfully completing the quiz test.

Quiz for SDP on "Surveying & Total Station"

Email *

deeksha.202826201@vcet.edu.in

Name of Student

Deeksha Shetty

Roll No.

32

Which of the following is the first principle of surveying? 1 point

a) Whole to whole

b) Part to part

c) Part to whole

d) Whole to part

A

B

C

D



Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2021-22

Which of the following is not a method of levelling?

1 point

- a) Spirit levelling
- b) Traverse levelling
- c) Barometric levelling
- d) Trigonometric levelling

- A
- B
- C
- D

In total station, data is stored in _____

1 point

- a) Pen drive
- b) Data card
- c) Micro processor
- d) External hardware

- A
- B
- C
- D



Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2021-22

When total station is sighted to the target, which of the operation acts first?

1 point

- a) Rotation of optical axis
- b) Rotation of vertical axis
- c) Rotation of horizontal axis
- d) Rotation of line of collimation

- A
- B
- C
- D

Which among the following doesn't indicate the basic calculation of the total station?

1 point

- a) Horizontal distance
- b) Slope distance
- c) Vertical distance
- d) Co-ordinate calculations

- A
- B
- C
- D

This form was created inside of vidyavardhini's college of engineering and technology.

Google Forms

As Raskhe

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Engineering & Technology
Vasai Road (W)- 401202.





Vidyavardhini's College of Engineering & Technology, Vasai

Department of Civil Engineering

59_Student
Development Program
on Application of
Microsoft Excel in Civil
Engineering

Date: 02/02/2022

To
The Principal
VCET, Vasai

Subject: Permission for conducting SDP on "Application of Microsoft Excel in Civil Engineering"

Respected Sir,

I, the undersigned, Mr. Vikrant Kothari, Assistant Professor of our Civil Engineering Department request you to grant the permission to conduct SDP on "Application of Microsoft Excel in Civil Engineering" which is to be held between 25th February 2022 to 2nd March 2022.

The speaker for the same is Mr. Arbaz Kazi and Mr. Viren Chandanshive who are Assistant Professors at the Civil Engineering Department, VCET, Vasai.

We request you to grant us permission for the same.

Thanking you

Yours Faithfully

Mr. Vikrant Kothari
Assistant Professor
Civil Engg Department

Dr. Ajay S Radke
HOD
Civil Engg Department



Vidyavardhini's College of Engineering and Technology, Vasai

विद्यावर्धिनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई

Affiliated to the University of Mumbai.

Department of Civil Engineering

Report on “SDP on Application of Microsoft Excel in Civil Engineering”

Date of Program- 25th February 2022 to 02nd March 2022, from 9:00 a.m. to 05:30 p.m.

No. of Participant- 25

Name of the Speakers- Mr. Arbaz M. Kazi, Mr. Viren Chandanshive, Mr. Prakash Panda (Assistant Professor, Department of Civil Engineering)

Introduction: The Student Development Program on “Application of Microsoft Excel in Civil Engineering” took place between 25th February 2022 to 02nd March 2022 through offline mode. The aim of the SDP was to make students acquaint about the use of MS Excel as robust tool to solve various analysis and design problems related to Civil Engineering.

Keynote Speaker:

Mr. Arbaz M. Kazi currently working as Assistant Professor in the department of civil engineering at Vidyavardhini's College of Engineering & Technology. He holds professional degree in Bachelor of engineering (B.E) in Civil Engineering and Master of Technology (M. Tech) in Construction Engineering & Management. He has vast experience in making use of MS Excel for solving civil engineering problems.

Description of the lecture:

The Student Development Program on “Application of Microsoft Excel in Civil Engineering” was conducted from 25th February 2022 to 02nd March 2022. The details of different session conducted are described below:

Session 1: Introduction to MS Excel Interface

This session focused on an introduction to the key elements of the Excel interface which includes Title bar, Ribbon, Quick Access Toolbar, Worksheet area, Formula bar, Status bar, Scroll bar, File menu and how this element are to be used for demonstration.



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Session 2: Use of Excel for Surveying and Data Management

Survey data collected during civil engineering projects can be efficiently managed and analyzed in Excel. It is used for organizing data, creating contour maps, and performing calculations related to land surveying and geospatial analysis. In this session speaker demonstrate the use of Excel for converting bearings, chain surveying corrections, levelling and profile levelling work.

Session 3: Use of Excel for Geotechnical Engineering problems

In geotechnical engineering, Excel is used to analyze soil test data, calculate bearing capacities, and perform slope stability analysis. In this Session the speaker demonstrated the use of excel for preparing Grain Size Distribution chart and classification of soil based on it. This was followed by the practices exercise based on the above demonstrated problem.

Session 4: Use of Excel for Concrete Mix Design

In this session speaker demonstrated the use of excel for making a Concrete Mix Design template which can be reused number of times based on the changes to be incorporated by different stakeholders. The IS code method was used for explanation and later students were asked to prepare mix design template using excel and adopting other method on concrete mix design.

Session 5: Use of Excel for Building Estimation Work

In this session speaker demonstrated the use of excel for quantity estimation of pile foundation which includes material estimation of steel, aggregate, sand, cement for different geometry of pile footings as shown in the drawing. Later the students were asked to prepare the template for quantity take-off calculation for pile foundation.

Session 6: Use of Excel for Transportation Engineering

In this session speaker demonstrated the use of excel for design of flexible pavement as per IRC 37:2001 design procedure. The final results showed the exact thickness of subgrade, sub-base, base and surface course thickness. Later the students were asked to prepare the design of rigid pavement using excel.



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Conclusion:

Microsoft Excel is a versatile and indispensable tool in the field of civil engineering. It supports structural analysis, quantity estimation, project management, data analysis, and a wide range of engineering tasks. Its user-friendly interface and extensive capabilities make it an essential software for civil engineers, enabling them to efficiently plan, design, and execute projects while maintaining accuracy and data integrity. Excel's adaptability and utility continue to drive its integration into various aspects of civil engineering, contributing to better project outcomes and data-driven decision-making.



Session on use of Excel for Building Estimation Work



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Session on use of Excel for Surveying

A. R. Radke

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Syllabus

Sr. No	Topic
1	Introduction to MS Excel Interface: Complete overview of working area, ribbon, tap button, quick access toolbar, formula bar, function bar, command bar, inserting chart, special elements, page settings, print layout, freezing and unfreezing options, conditional formatting.
2	Use for Excel for Surveying and Data Management: Introduction to Surveying principles, contour maps, interpolation of contour, levelling, profile levelling. Use of Excel for solving survey related problems.
3	Use of Excel for Geotechnical Engineering problems: Introduction to geotechnical engineering concepts, problem area like soil classification, design of raft foundation, design of pile cap and pile foundation, and stability analysis of slope. Use of Excel for making grain size distribution curve from given data for soil classification.
4	Use of Excel for Concrete Mix Design: Introduction to concrete mix design procedure as prescribed in IS 10262:2019, Factors on which Concrete Mix Design Depends, Types of concrete mixes etc. Use of Excel for designing the template of concrete mix with final output as exact qty. of raw materials required.
5	Use of Excel for Building Estimation Work: Introduction to various activities to be considered under building estimation work like approximate estimate, detailed estimate, rate analysis, valuation, quantity estimate for foundations etc. Use of Excel for quantity determination of pile footing layout for the problem statement provided.
6	Use of Excel for Transportation Engineering: Introduction to problems in transportation engineering like traffic survey data presentation, design of pavement, introduction to design procedure of flexible pavement as per IRC 37:2012. Use of Excel for design the template for flexible pavement design.

A. S. Raske

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Vidyavardhini's College of Engineering and Technology, Vasai

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Affiliated to the University of Mumbai.

Schedule

Sr. No	Topic	Date	Time
1	Introduction to MS Excel Interface	25/02/2022	9:00 am to 5:30 pm
2	Introduction to Surveying principles, contour maps, interpolation of contour, levelling, profile levelling	26/02/2022	9:00 am to 11:00 am
3	Use of Excel for demonstraiong problems like chainage corection, correction in bearings.	26/02/2022	11:15 am to 1:15 pm
4	Use of Excel for demonstrating problems like levelling and profile levelling work related to surveying.	26/02/2022	2:00 pm to 4:00 pm
5	Practice session on Use of Excel for Surveying and Data Management	26/02/2022	4:00 pm to 5:30 pm
6	Introduction to geotechnical engineering concepts, problem area like soil classification, design of raft foundation, design of pile cap and pile foundation, and stability analysis of slope.	27/02/2022	9:00 am to 11:00 am
7	Use of Excel for Demonstarng Soil Classification using Grain Size Distribution.	27/02/2022	11:15 am to 3:00 pm
8	Practice Session on use of excel for Soil Classification using Grain Size Distribution.	27/02/2022	3:00 pm to 5:30 pm
9	Introduction to Concrete Mix Design as per IS10262 and factors affecting concrete mix desgin.	28/02/2022	9:00 am to 1:00 pm
10	Use of Excel for designing concrete mix design template	28/02/2022	2:00 pm to 5:30 pm
11	Introduction to Quantity Estimation, it's necessity and codal provisions to be followed for the same.	01/03/2022	9:00 am to 11:00 am
12	Study of structural drawing for knowing positions of pile, its sizes and depth of extent and shape of pile cap and determining total no. piles of quantity take-off.	01/03/2022	11:15 am to 1:15 pm
13	Use of Excel for estimating the quantity of material for the pile footings provided in the drawing.	01/03/2022	2:00 pm to 5:30 pm
14	Introduction to problems in transportation engineering like traffic survey data presentation, design of pavement, introduction to design procedure of flexible pavement as per IRC 37:2012.	02/03/2022	9:00 am to 1:15 pm
15	Use of Excel for the template of flexible pavement design as per procedure prescribed in IRC 37:2012, Practice Session on design of flexible pavement using excel.	02/03/2022	2:00 pm to 5:30 pm

A. S. Rastke

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Assessment Method

At the end of the Student Development Program (SDP) on “Application of Microsoft Excel in Civil Engineering”, the students will be awarded certificate after successfully completing the project work.

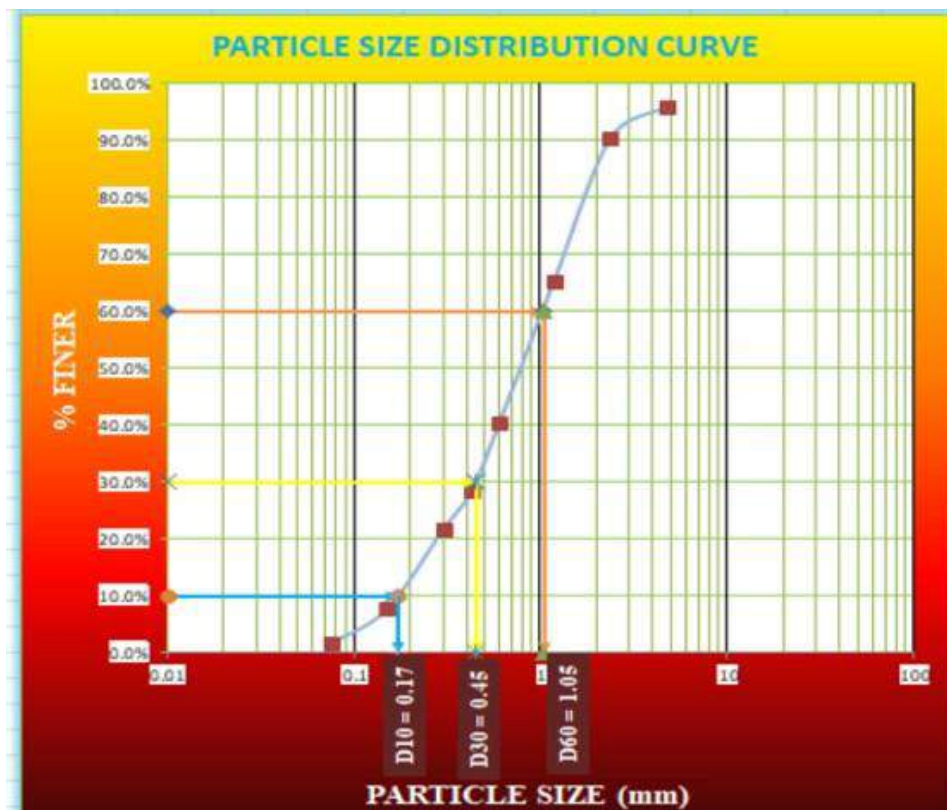
Project Question:

Prepare a template for:

1. Concrete Mix Design
2. Particle Size Distribution
3. Design of Flexible Pavement

The use of Microsoft Excel is a must for preparing the template. Use relevant IS Codes, data from cited sources for completing the project work in all aspects.

Students Work:





VidyaVardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2021-22

Design of flexible pavement

Design CBR value	=	6	%
Initial Traffic volume	=	400	msa
Traffic growth rate	=	7.5	%
No of lanes	=	2	
Design life	=	15	years
Vehicle damage factor	=	2.5	
lane distribution factor	=	0.75	
Completion year	=	10	years
Traffic after completion year	=	824.4126249	
cumulative number of standard excel	=	14736174.38	msa
		14.73617438	msa
Total pavement thickness	=	627	mm
		630	mm
Granular base	=	250	mm
Granular sub base	=	260	mm
DBM	=	77	mm
		80	mm
BC	=	40	mm

SHEET 1 : IRC DESIGN OF FLEXIBLE PAVEMENT

CHIRAJ PATIL

S.E Civil

Roll No. 38



Vidyavardhini's College of Engineering and Technology, Vasai (W)

Department of Civil Engineering

Academic Year 2021-22

	A	B	C	D
1	CONCRETE MIX DESIGN			
2				
3	Design Grade	=	25.00	N/mm ²
4	Target Mean strength	=	31.56	N/mm ²
5	W/C RATIO	=	0.45	
6	Maximum size of aggregates	=	20.00	mm
7	Water Content per m ³ of concrete	=	186	kg
8	Fineness Modulus	=	3.30	
9	Sand Confirming zone	=	3.00	
10	Sand Content per m ³ of concrete	=	35	
11	Correction in water content	=	191.58	kg
12	Correction in Sand Content	=	33.43	
13	Compaction Factor	=	0.90	
14	Cement Content	=	425.73	kg
15	Specific Gravity of Cement	=	3.15	
16	Specific Gravity			
17	1) Fine Aggregate	=	2.65	
18	2) Coarse Aggregate	=	3.07	
19	Moisture Content(%)			
20	1) Fine Aggregate	=	1.25	%
21	2) Coarse Aggregate	=	0.85	%
22	Water absorption(%)			
23	1) Fine Aggregate	=	2.00	%
24	2) Coarse Aggregate	=	0.65	%
25	Estimated Air Contain(%)	=	1.00	%
26	Volume of Concrete(m ³)	=	1.00	
27	mass of concrete without air	=	990.00	kg
28	Quantity of Fine Aggregate	=	587.50	kg
29	Quantity of Coarse Aggregate	=	1355.62	kg
30	Correction in Qty. of Fine Aggregate	=	594.84	kg
31	Correction in Qty. of coarse Aggregate	=	1367.14	kg
32	Correction in Qty. of Water	=	193.27	kg

Final Concrete Mix Design Template for M25 Grade Concrete

Prepared by: Ms. Deeksha Shetty (30) – SE Civil

A. L. Radhe

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STUDENT INDUCTION PROGRAM

For a smooth transition from school to higher
education

Circulars

Announcer

Introduction and What is Student Induction Program (SIP) ▾

The 3-week Student Induction Program (SIP) is to prepare newly admitted undergraduate students for the new stage in their life by facilitating a smooth transition from their home and school environment into the college and university environment through various discussions and activities before formal classes begin.

In line with the thoughts expressed in the NEP 2020, the SIP consists of 9 modules – one on Universal Human Values, one on health, five on Indian Knowledge System (modules 4, 5, 7-9) and two on skills (modules 3 and 6).

SIP Module 1: Universal Human Values I (UHV I) 22 hours

The purpose is to help develop a holistic perspective about life. A universal self-reflective methodology of teaching is adopted. It opens the space for the student to explore his/her role (value) in all aspects of living – as an individual, as a member of a family, as a part of the society and as a unit in nature. Through this process of self-exploration, students are able to discover the values intrinsic in them.

SIP Module 2: Physical Health and Related Activities 51 hours

This module is intended to help understand the basic principles to remain healthy and fit and practice them through a healthy routine which includes exercise, games, sports etc.

SIP Module 3: Familiarization of Department/ Branch and Innovation 06 hours

This module is for introducing and relating the student to the institution/department/branch; how it plays a role in the development of the society, the state, region, nation and the world at large and how students can participate in it.

SIP Module 4: Visit to a Local Area 10 hours

To relate to the social environment of the educational institution as well as the area in which it is situated through interaction with the people, place, history, politics...

SIP Module 5: Lectures by Eminent People 06 hours

Listening to the life and times of eminent people from various fields like academics, industry etc. about careers, art, self-management and so on enriches the student's perspective and provides a holistic learning experience.

SIP Module 6: Proficiency Modules 06 hours

This module is to help fill the gaps in basic competency required for further inputs to be absorbed. It includes effort to make student proficient in interpersonal communication and expression as well as awareness about linguistic and thereafter NLP.

SIP Module 7: Literature / Literary Activities including Indian Knowledge System-I (IKS-I) 30 hours

Through the exposure of local, national and international literature, this module is aimed at helping the student explore by practice traditional as well as contemporary values and thought.

SIP Module 8: Creative Practices 49 hours

This module is to help develop the clarity of humanistic culture and its creative, joyful expression through practice of art forms like dance, drama, music, painting, pottery, sculpture etc. Local, national and international case studies, particularly Indian Knowledge Systems, Languages, Culture and Values.

SIP Module 9: Other Co-curricular Activities 06 hours

This is a category under which things that are not placed in any of the above may be placed. Some clubs and hobby group may be made for each of the above categories, so that students may pursue them even after SIP.

Download Policy, Syllabus and Implementation Cell Details

Policy and details of SIP in AICTE Model Curriculum - Volume 1 Appendix 1 pp 58-64

UHV Cell, Nodal and Resource Centres to implement SIP and other UHV related activities

Student Activity Cell for guiding Student Clubs, Societies

More about policy...

Videos

Former Chairman AICTE on SIP

Former Chairman AICTE about SIP and Other UHV Programs

Prof. Anil D. Sahasrabudhe



Chairman NCC-IP on SIP

Chairman NCC-IP on SIP

Prof. Rajneesh Arora



SIP Experience of Colleges

SIP Experience of Colleges



How to Conduct SIP ▾

Every institution is expected to conduct an effective Student Induction Program every year before formal classes start. SIP is

- For 3 weeks BEFORE formal classes start
- Conducted by qualified faculty (who have attended the introductory sessions on SIP. If not, then at least they have gone through the audio-visual material from the links mentioned above)
- UHV-I is conducted completely, even if the SIP duration is compromised

Please note that

SIP is not to be conducted just as an activity for compliance.

It is for a smooth and meaningful transition from school/coaching environment to higher education.

It is an introduction to what NEP expects, an education that will help students to develop to their full human potential and contribute willingly to an equitable and just family, society... development of the Nation..

Download SIP Implementation Guidelines, Handbooks, Manuals

SIP Hand Book V2
(for faculty)

SIP Registration and Survey
(to be filled by all student participants before they attend SIP and submitted to NCC-IP, AICTE as part of college report)

Post-SIP Survey
(to be filled by all student participants after they attend SIP and submitted to NCC-IP, AICTE as part of college report)

Download SIP Teaching Material

Module 1 Universal Human Values: UHV-I Universal Human Values-Introduction 15 Sessions Presentations

Facilitator (Mentor) Manual Version 2.1 (for faculty)

Post UHV-I Feedback and Survey (to be filled by all student participants after they attend UHV-I and submitted to NCC-IP, AICTE as part of college report)

Module 2: Physical Health and Related Activities Holistic Health – Its Philosophy and Practice 12 sessions

Module 3: Familiarization of Department/ Branch and Innovation

Module 4: Visit to a Local Area

Module 5: Lectures by Eminent People

Module 6: Proficiency Modules

Module 7: Literature / Literary Activities

Module 8: Creative Practices

Module 9: Extra Curricular Activities

Actions Required Post SIP ▾

The SIP is only the beginning of the interaction with newly joined students.

Faculty Mentorship Program

An important part of the SIP is to associate one faculty mentor to every small group of about 20 students. Mentoring is to be continued in all semesters of the ongoing academic program along with other cultural activities.

Student Buddy Program

Associate one senior student buddy to an even smaller groups of about 5 students for the guidance required for holistic development of the newly joined student throughout his/her time in the institution/college. As these students become senior, they can act as buddies for their junior students. This will give them a chance to take the role of elder sibling.

How to Report SIP ▾

Institutions may develop and share with AICTE a consolidated report consisting of

- SIP activity with photos
- SIP Schedule with resource person details
- Impact of SIP
- How and by whom was UHV-I module conducted
- Impact of UHV-I
- Best practices followed (1-2 pages, can be useful for other universities/colleges)
- Suggestions for further improvement (1-2 pages, can be useful for other universities/colleges)
- Attach Post SIP Survey (as per AICTE Format, Excel File)
- Attach Pre UHV-I Survey (as per AICTE Format, Excel File)
- Attach Post UHV-I Survey (as per AICTE Format, Excel File)

Download Reports Format and Model Surveys to be Included

Model of SIP Report (to be submitted within 2 weeks after completion of SIP by college to NCC-IP, AICTE)

Copy of SIP Registration and Survey

(to be filled by all student participants before they attend SIP and submitted to NCC-IP, AICTE as part of college report)

Copy of Post-SIP Survey

(to be filled by all student participants after they attend SIP and submitted to NCC-IP, AICTE as part of college report)

Copy of Post UHV-I Feedback and Survey

(to be filled by all student participants after they attend UHV-I and submitted to NCC-IP, AICTE as part of college report)

Assessing the Implementation and Impact of SIP ▾

The institution / college is expected to take feedback and prepare appropriate reports for assessing the impact and for further improvement of SIP. The basic feedback forms are included with the SIP Teaching Materials.

AICTE will also conduct periodic assessment to ascertain the implementation efforts and impact of the SIP and related activities.

How to Prepare Faculty to Conduct SIP and Post SIP Mentoring ▾

eSIP Sampler conducted online ▾

eSIP: Overview, Inaugural, Celebration

[Click here to Watch](#)

Feedback and Sharing Sessions

[Click here to Watch](#)

Module 1: Universal Human Values I (UHV I)

Hindi [Click here to Watch](#)

English [Click here to Watch](#)

Module 2: Physical Health and Related Activities

Hindi [Click here to Watch](#)

English [Click here to Watch](#)

Module 3: Familiarization of Department/ Branch and Innovation

Module 4: Visit to a Local Area

Module 5: Lectures by Eminent People

Module 8: Creative Practices Certified Faculty Requirements

Module 9: Extra Curricular Activities

Minimum 1 faculty per 20 students (faculty from every department / branch / discipline to be prepared for mentoring the students for all semesters) Faculty mentors must attend at least one Introductory UHV FDP

Modules 3, 4, 5, 8, 9

Click here to Watch

Minimum 1 faculty per 60 students (faculty from every department / branch / discipline to be prepared for teaching UHV-I Module of Student Induction Program. A minimum of 2 faculty per institution/college must be prepared)

Module 6: Proficiency Modules

Language: [Click here to Watch](#)
Faculty teaching UHV-I must attend at least one online UHV-II FDP

Sanskrit: [Click here to Watch](#)
Pre-requisites: at least one Introductory UHV FDP

Further development: weekly meetings and other regular UHV activities conducted by NCC-IP

Module 7: Literature and Literary Activities


These FDPs are available online as well as in face-to-face mode. Scheduled FDPs are listed in the Registration tab
[Click here to Watch](#)


AICTE

All India Council for Technical Education (AICTE) was set up in November 1945 as a national-level Apex Advisory Body to conduct a survey on the facilities available for technical education and to promote development in the country in a coordinated and integrated manner.




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Laws of Thermodynamics

By Prof. Sankar Kumar Som, Prof. Suman Chakraborty | IIT Kharagpur

Learners enrolled: 3435

Laws of Thermodynamics by Prof. S. K. Som and Prof. Suman Chakraborty



Thermodynamics is the branch of science that describes the basic laws and principles governing the processes of transfer and transformation of energy along with the changes in properties of the substances affected by such processes. The laws are formulated from observations in nature. The basic principles as corollaries of the laws are established through logical deductions following the laws. The science of thermodynamics also provides the relationships of the properties of substances for their use in determining the changes of properties in physical processes performed by the substances. The subject thermodynamics is of prime importance as a foundation pillar of all branches of engineering, since technological processes and their developments involve transfer and transformation of energy.

In the present course we will discuss the laws of thermodynamics and its corollaries. The discussion will be based on physical concepts, mathematical expressions and illustrated examples of practical applications. This will not only clear the physical concepts of the students but will enable the students to get rid of usual misleading concepts in understanding the laws and their applications.


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 [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)
INTENDED AUDIENCE : interested students

PRE-REQUISITES : Basic knowledge of mathematics

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INDUSTRY SUPPORT : G.E.

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G.A.I.L.

O.N.G.C

Shell

Summary

Course Status :	Completed
Course Type :	Core
Duration :	4 weeks
Category :	<ul style="list-style-type: none"> ◦ Mechanical Engineering
Credit Points :	1
Level :	Undergraduate
Start Date :	18 Jan 2021
End Date :	12 Feb 2021
Enrollment Ends :	01 Feb 2021
Exam Date :	21 Mar 2021 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_me07%2Fpreview&title=Laws%20of%20Thermodynamics%20-%20Course)

Course layout

Week 1: Introduction and Fundamental Definitions

Week 2: First Law of Thermodynamics

Week 3: First Law (continued), Second Law of Thermodynamics

Week 4: Entropy and its transport



Books and r



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

1. Fundamentals of Thermodynamics by Claus Borgnakke and Richard E. Sonntag (7th edition)
2. Thermodynamics: An Engineering Approach by Yunus A. Cengel and Michael A. Boles (7th Edition)

About Swayam (<https://swayam.gov.in/about>) | [All Courses](#) |

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Instructor bio



Prof. Sankar Kumar Som

Prof. Sankar Kumar Som is currently an emeritus Professor (on re-employment) in the department of Mechanical Engineering at the Indian Institute of Technology, Kharagpur. His field of expertise is thermo fluid sciences. His research interest is combustion science, and in particular, droplet and spray combustion. Apart from guiding 16 doctoral students and publishing more than 100 research papers in peer-reviewed international journals, he has served as principal investigator and chief consultant in several industrial projects with different government and private organizations. He has authored a text book titled 'Introduction to Heat Transfer', published by PHI learning, and has also co-authored a text book titled 'Introduction to Fluid Mechanics and Fluid Machines', published by McGraw-Hill Education. He has made significant contributions in national programs on distant learning. He has contributed to NPTEL through his video based and web based courses on 'Fluid Mechanics', 'Thermodynamics', 'Fluid Machines and Compressible flows'. He has also taught Fluid Mechanics in a program titled 'Train Ten Thousand Teachers' under NMEICT. The present UG and PG course curricula in Engineering and Science at IIT Kharagpur were developed under his leadership as the chairman of a Curriculum Review Committee. He is a fellow of the National Academy of Sciences, India (FNASc) and also of Indian National Academy of Engineering (FNAE). In recognition to his consistent and high level teaching, he was bestowed with the INSA Teachers Award (2014). He has also served the administration at IIT Kharagpur as Head, Department of Mechanical Engineering; Dean, Undergraduate Studies; and Director (officiating)



Prof. Suman Chakraborty

IIT Kharagpur

Dr. Suman Chakraborty is currently a Professor in the Mechanical Engineering Department as well as an Institute Chair Professor of the Indian Institute of Technology Kharagpur, India, and the Head of the eSchool of Medical Science and Technology. He is also the Associate Dean for Sponsored Research and Industrial Consultancy. His current areas of research include microfluidics, nano-fluidics, micro-nano scale transport, with particular focus on biomedical applications. He has been awarded the Santi Swaroop Bhatnagar Award in the year 2013, which is the highest Scientific Award from the Government of India. He has been elected as a Fellow of the Academy of Sciences, India.

Physical Society, Fellow of Indian Academy of Science, Fellow of Indian Academy of Engineering, recipient of National Young Scientist Award (NYPEL) (https://swayam.gov.in/), Young Scientist/ Young Engineer Awards from various National Academies of Science and Engineering. He has also been an Alexander von Humboldt Fellow and a visiting Professor at the Stanford University. He has 380+ Journal publications.



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The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **21 March 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

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Average assignment score = 25% of average of best 3 assignments out of the total 4 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

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Air piston

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Tayseer Almattar

SOLIDWORKS specialist, Founder of TforDesign and Ideabee Design co-chair.

10+ years of experience as a designer in different industries. Has taught 15,000+ students across the globe and has also authored a book on SOLIDWORKS.

Reviews from students

AVERAGE RATINGS

4.4 ★★★★★

5.0 ★★★★★

Systematic approach, crisp videos, and a wide coverage of concepts are the key benefits of this training program which separates it from other platforms. It also helped me in getting an internship!



Shubh Krishna Shrivastava
Sinhgad College of Engineering, Pune



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Specialization - 9 course series

Whether you're a high school graduate exploring manufacturing careers, or an operations manager hungry for an understanding of the newest manufacturing technologies, this specialization will provide a foundation in how digital advances are changing the landscape and capabilities of factories. Nine courses – developed with input from the manufacturing industry – touch on Industry 4.0 and its components, including digital manufacturing and design practices, the concept of the digital thread, the Internet of Things and Big Data. To learn more about the Digital Manufacturing and Design Technology specialization, please watch the overview video by copying and pasting the following link into your web browser: <https://youtu.be/wETK1O9c-CA> 

Applied Learning Project

Learners will create a roadmap to achieve their own personal goals related to the digital manufacturing and design (DM&D) profession, which will help them leverage relevant opportunities. The culminating project provides a tangible element to include in their professional portfolios that showcases their knowledge of Industry 4.0.

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[Course details](#) ✓**Digital Thread: Components**

Course 2 • 14 hours • 4.6 ★ (792 ratings)

✓

Digital Thread: Implementation

Course 3 • 20 hours • 4.7 ★ (454 ratings)

✓

Advanced Manufacturing Process Analysis

Course 4 • 13 hours • 4.6 ★ (1,157 ratings)

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Course 5 • 10 hours • 4.6 ★ (1,334 ratings)

✓

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Course 7 • 21 hours • 4.7 ★ (556 ratings)

✓

MBSE: Model-Based Systems Engineering

Course 8 • 21 hours • 4.4 ★ (762 ratings)

✓

Roadmap to Success in Digital Manufacturing & Design

Course 9 • 18 hours • 4.7 ★ (259 ratings)

✓

Instructors**Ken English**

The State University of New York

4 Courses • 73,449 learners

**Amy Moore**

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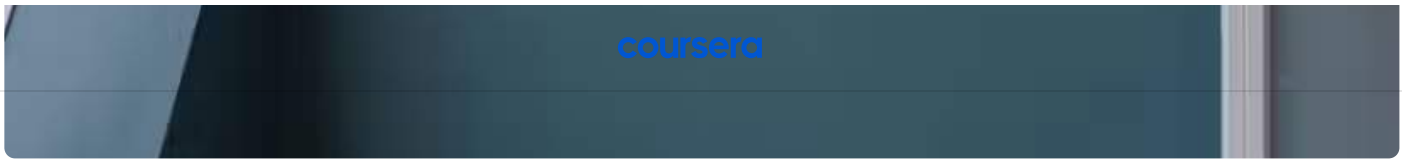
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Excel Skills for Business Specialization

Learn Excel Skills for Business. Master Excel to add a highly valuable asset to your employability portfolio.

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Get in-depth knowledge of a subject

4.9 ★ (44,319 reviews)

Beginner level

Recommended experience ⓘ

3 months at 10 hours a week

Flexible schedule

Learn at your own pace

[View all courses](#)

What you'll learn

- ✓ Be comfortable navigating the Excel user interface, entering, manipulating and formatting data.
- ✓ Analyze data and present the results in a user-friendly way. Create charts and tables that effectively summarize raw data.
- ✓ Use formulas and functions to perform calculations on data. Automate choices and data lookups using functions.
- ✓ Create easy-to-use spreadsheets. Validate data, find and correct errors. Create navigation aids for large workbooks.

Skills you'll gain

Data Validation Microsoft Excel Microsoft Excel Macro Pivot Table

Details to know



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English

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Specialization - 4 course series



This specialization is intended for anyone who seeks to develop one of the most critical and fundamental digital skills today. Spreadsheet software remains one of the most ubiquitous pieces of software used in workplaces across the world. Learning to confidently operate this software means adding a highly valuable asset to your employability portfolio. In the United States alone, millions of job advertisements requiring Excel skills are posted every day. [Research by Burning Glass Technologies and Capital One](#) [↗] shows that digital skills lead to higher income and better employment opportunities. At a time when digital skills jobs are growing much faster than non-digital jobs, completing this specialization will position you way ahead of others.

In this Specialization, learners develop advanced Excel Skills for Business. Upon completing the four courses in this Specialization, learners can design sophisticated spreadsheets, including professional dashboards, and perform complex calculations using advanced Excel features and techniques. Learners have acquired the skills to manage large datasets efficiently, extract meaningful information from datasets, present data and extract information effectively. In addition, learners have mastered the skills needed to validate data and prevent errors in spreadsheets, create automation, apply advanced formulas and conditional logic to help make decisions and create spreadsheets that help forecast and model data.

Applied Learning Project

The best way to learn Excel is to use Excel. In this specialization, learners will solve a broad range of business problems as they apply the Excel skills and techniques they learn along the way. This specialization uses downloadable Excel workbooks and full data sets with applied examples and practical challenge exercises. This provides learners with countless opportunities to practice their Excel skills while discovering new and useful productivity features of Excel for a variety of business contexts.

Read more

Excel Skills for Business: Essentials

Course 1 • 26 hours • **4.9** ★ (47,517 ratings)



Excel Skills for Business: Intermediate I

Course 2 • 27 hours • **4.9** ★ (16,467 ratings)



Excel Skills for Business: Intermediate II

Course 3 • 28 hours • **4.8** ★ (7,887 ratings)



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Course 4 • 26 hours • **4.7** ★ (5,680 ratings)



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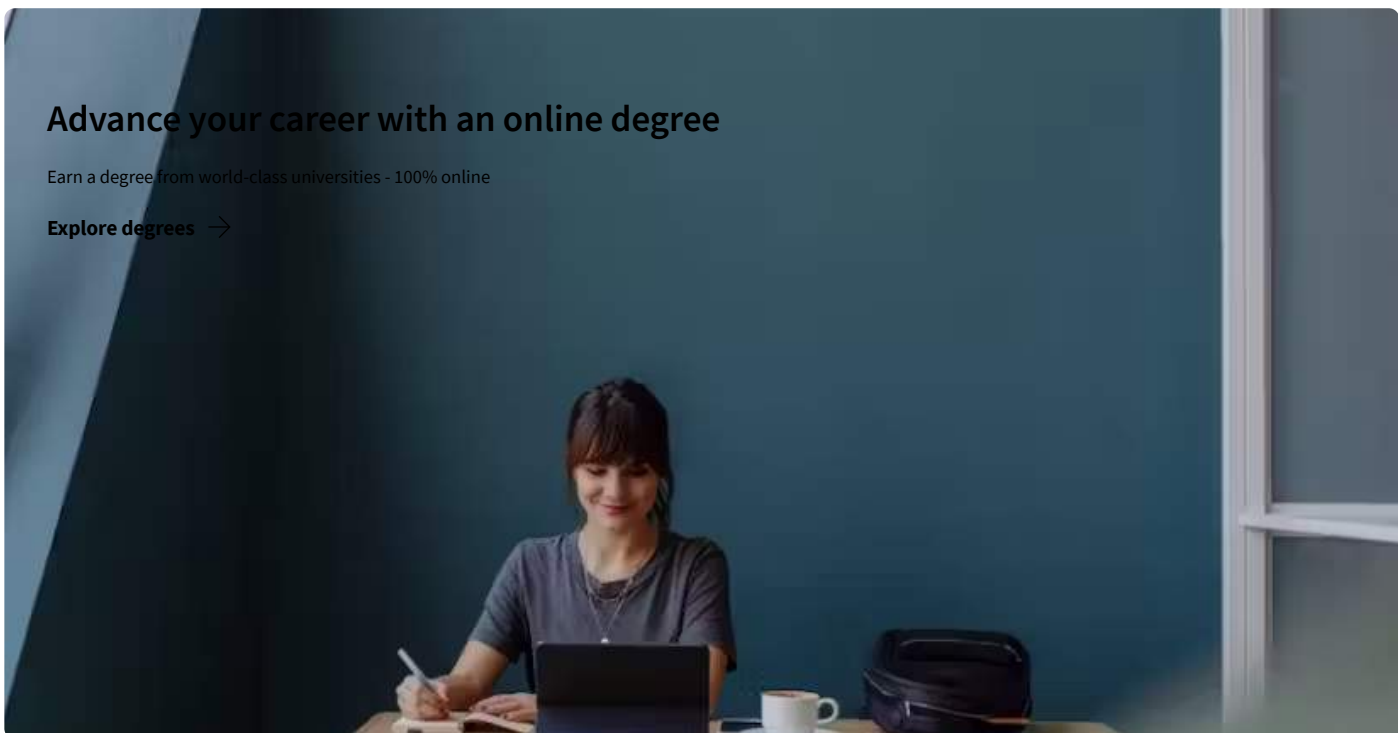
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Heat Transfer

By Prof. Ganesh Viswanathan | IIT Bombay

Learners enrolled: 2001

Prof.Ganesh Viswanathan



Heat transfer occurs in many unit operations in variety of processes in chemical, petrochemical, power and pharmaceutical industries. Understanding the fundamentals governing heat transfer is key to designing equipment that involves heat exchange. This course for undergraduate students covers the fundamental aspects and quantitation of different modes of heat transport. The course can also serve as a refresher for graduate students

INTENDED AUDIENCE : Undergraduate and graduate students from Chemical and Mechanical Engineering, College teachers, Process engineers

PRE-REQUISIT

a, Fluid Mechanics

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Course Status :	Completed
Course Type :	Core
Duration :	12 weeks
Category :	<ul style="list-style-type: none"> Chemical Engineering
Credit Points :	3
Level :	Undergraduate
Start Date :	27 Jan 2020
End Date :	17 Apr 2020
Enrollment Ends :	03 Feb 2020
Exam Date :	26 Apr 2020 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc20_ch12%2Fpreview&title=Heat%20Transfer%20-%20Course)

Course layout

Week 1

Lecture 1: Introduction

Lecture 2: Introduction to Conduction

Lecture 3: Energy Balance

Lecture 4: 1D Steadystate Conduction - Resistance Concept

Lecture 5: Resistances in Composite Wall Case

Week 2

Lecture 6: Res systems

Lecture 7: Heat (https://swayam.gov.in/)



(https://swayam.gov.in/nc_details/NPTEL)

Lecture 8: Introduction to Extended Surfaces

Lecture 9: Extended Surfaces I - General formulation (https://swayam.gov.in/about) | All Courses | ()

Lecture 10: Extended Surfaces II - Uniform Cross-sectional Area

Week 3

Lecture 11: Extended Surfaces III – Varying Cross-section area

Lecture 12: 2D Plane wall

Lecture 13: Transient Analyses I : Lumped Capacitance Method

Lecture 14: Transient Analyses II : Full Method

Lecture 15: Transient Analyses : Semi-infinite Case

Week 4

Lecture 16: Introduction to Convective Heat Transfer

Lecture 17: Heat and Mass Transport Coefficients

Lecture 18: Boundary Layer : Momentum, Thermal and Concentration

Lecture 19: Laminar and Turbulent Flows ; Momentum Balance

Lecture 20: Energy and Mass Balances ; Boundary Layer Approximations

Week 5

Lecture 21: Order of Magnitude Analysis

Lecture 22: Transport Coefficients

Lecture 23: Relationship between Momentum, Thermal and Concentration boundary Layer

Lecture 24: Reynolds and Chilton-Colburn Analogies

Lecture 25: Forced Convection : Introduction

Week 6

Lecture 26: Flow Past Flat Plate I – Method of Blasius

Lecture 27: Flow Past Flat Plate II - Correlations for Heat and Mass Transport

Lecture 28: Flow Past Cylinders

Lecture 29: Flow through Pipes I

Lecture 30: Flow through Pipes II

Week 7

Lecture 31: Flow through Pipes III

Lecture 32: Flow through Pipes IV – Mixing-cup Temperature

Lecture 33: Flow through Pipes V – Log mean Temperature difference

Lecture 34: Flow through Pipes VI – Correlations for Laminar and Turbulent Conditions

Lecture 35: Example problems : Forced Convection

Week 8

(<https://swayam.gov.in/>)



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Lecture 36: Introduction to Free/Natural Convection: About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Lecture 37: Heated plate in a quiescent fluid- I

Lecture 38: Heated plate in a quiescent fluid- II

Lecture 39: Boiling I

Lecture 40: Boiling II

Week 9

Lecture 41: Condensation : I

Lecture 42: Condensation : II

Lecture 43: Radiation : Introduction

Lecture 44: Spectral Intensity

Lecture 45: Radiation : Spectral properties,Blackbody

Week 10

Lecture 46: Properties of a Blackbody

Lecture 47: Surface Adsorption

Lecture 48: Kirchoff's Law

Lecture 49: Radiation Exchange - View Factor

Lecture 50: View Factor Examples

Week 11

Lecture 51: View factor - Inside Sphere Method, Blackbody Radiation Exchange

Lecture 52: Diffuse, Gray Surfaces in an Enclosure

Lecture 53: Resistances - Oppenheim matrix method

Lecture 54: Resistances - Examples

Lecture 55: More Examples : Volumetric Radiation

Week 12

Lecture 56: Introduction and Examples

Lecture 57: Parallel Flow Heat Exchangers

Lecture 58: LMTD I

Lecture 59: Shell and Tube Heat Exchangers

Lecture 60: Epsilon-NTU Method

Books and references

Fundamentals of heat and mass transfer 5th Ed. Incropera FR and DeWitt DP. Wiley

Instructor


[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)
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Prof. Ganesh Viswanathan

IIT Bombay

Ganesh Viswanathan is an Associate Professor in Department of Chemical Engineering at Indian Institute of Technology Bombay, Mumbai. He completed his Ph.D in Chemical Engineering from University of Houston, Houston and Postdoctoral Fellowship at Mount Sinai School of Medicine, New York. He conducts research in systems biology of signaling networks and nonlinear dynamics of reactors. Further information about his research and teaching activities is available at <http://www.che.iitb.ac.in/faculty/ganesh/> (<http://www.che.iitb.ac.in/faculty/ganesh/>)

Course certificate

- The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.
- The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
- **Date and Time of Exams:** 26th April 2020, Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE:

- Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.
- Exam score = 75% of the proctored certification exam score out of 100
- Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$.

- If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.
- Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Bombay. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).
- Only the e-certificate will be made available. Hard copies will not be dispatched.



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66_Robotics, NPTEL

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Robotics

By Prof. Dilip Kumar Pratihar | IIT Kharagpur

Learners enrolled: 4982

Robotics by Prof D K Pratihar



The course will start with a brief introduction to robots and robotics. The motivation behind keeping robots in modern industries will be discussed. After providing a brief history of robotics, different components of a robotic system will be identified. The method of determining degrees of freedom of a robotic system will be discussed with some examples. After classifying the robots based on certain criteria, workspace analysis of manipulators will be carried out. Applications of robots in different areas like in manufacturing units, medical science, space, and others, will be discussed. Various methods of robot teaching will be explained with some suitable examples. Economic analysis will be conducted to decide whether we should purchase a robot. Both forward and inverse kinematics problems will be solved with the help of some suitable

examples. To variation of joint angles of the robot trajectory planning schemes will be explained. After carrying out v (https://swayam.gov.in/) inverse dy (https://swayam.gov.in/nc-details/NPTEL) solved using Lagrange-Euler formulation. Control scheme used in robots to realize the joint torques will be discussed. Besides manipulators, analysis will be carried out on wheeled and multi-legged robots. The working principles of various sensors used in robots will be explained in detail. The steps to be followed in robot vision will be discussed with some suitable examples. The principles of motion planning algorithms will be explained in detail. Thus, this course will deal with all the issues related to kinematics, dynamics, control schemes and robot intelligence.

INTENDED AUDIENCE : Students belonging to all disciplines of Engineering, Researchers and practicing Engineers can take this course

PREREQUISITES : Nil

INDUSTRY SUPPORT : 1. RDCIS, Ranchi 2. CMERI, Durgapur 3. Reliance Industries, 4. C-DAC, Kolkata, and others

Summary



Course Status :	Completed
Course Type :	Core
Duration :	8 weeks
Category :	<ul style="list-style-type: none"> ◦ Mechanical Engineering ◦ Robotics
Credit Points :	2
Level :	Undergraduate/Postgraduate
Start Date :	26 Jul 2021
End Date :	17 Sep 2021
Enrollment Ends :	09 Aug 2021
Exam Date :	26 Sep 2021 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share#url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_me76%2Fpreview&title=Robotics%20-%20Course)

Course la  (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)

Week 1 : Introduction to Robots and Robotics

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Week 2 : Introduction to Robots and Robotics; Robot Kinematics

Week 3 : Robot Kinematics

Week 4 : Robot Kinematics; Trajectory Planning

Week 5 : Robot Dynamics

Week 6 : Control Scheme; Sensors; Robot Vision

Week 7 : Robot Vision; Robot Motion Planning

Week 8 : Intelligent Robot; Biped Walking; Summary

Books and references

1. Fundamentals of Robotics by D.K. Pratihar, Narosa Publishing House, New-Delhi, 2017
2. Robotics by K.S. Fu, R.C. Gonzalez, C.S.G. Lee, McGraw-Hill Book Company, 1987
3. Introduction to Robotics by J.J. Craig, Addison-Wesley Publishing Company, 1986

Instructor bio



Prof. Dilip Kumar Pratihar

IIT Kharagpur

I received BE (Hons.) and M. Tech. from REC (NIT) Durgapur, India, in 1988 and 1994, respectively. I obtained my Ph.D. from IIT Kanpur, India, in 2000. I received University Gold Medal, A.M. Das Memorial Medal, Institution of Engineers' (I) Medal, and others. I completed my post-doctoral studies in Japan and then, in Germany under the Alexander von Humboldt Fellowship Programme. I received Shastri Fellowship (Indo-Canadian) in 2019, INSA Teachers' Award 2020, New Code Of Education 2021 Award. I am working now as a Professor (HAG scale) of IIT Kharagpur, India. My research areas include robotics, soft computing and manufacturing science. I have published more than 300 papers and book-chapters. I have written the textbooks on "Soft Computing" and "Fundamentals of Robotics", co-authored another textbook on "Analytical Engineering Mechanics", edited a book on "Intelligent and Autonomous Systems", co-authored reference books on "Modeling and Analysis of Six-legged Robots"; "Modeling and Simulations of Robotic Systems Using Soft Computing"; "Modeling and Analysis of Laser Metal Forming Processes by Finite Element and Soft Computing Methods" and "Multibody Dynamic Modeling of Multi-legged Robots". My textbook on "Soft Computing" had been translated into Chinese language in 2009. I have guided 23 Ph.D.s. I am in editorial board of a few International Journals. I have been elected as FIE, MASME and SMIEEE. I have completed a few sponsored (funded by DST, DAE, MHRD) and consultancy projects. I have filed two patents.

Course c

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The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **26 September 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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Computational Fluid Dynamics using Finite Volume Method

By Prof. Kameswararao Anupindi | IIT Madras

Learners enrolled: 2740

Computational Fluid Dynamics using Finite Volume Method _ Course Introduction



In this course, the discretization and solution of diffusion, convection-diffusion, and incompressible fluid flow equations are discussed. Finite volume method is used to discretize each of the equations. The discretization and solution methods are formulated on structured as well as unstructured meshes. This course involves hand-calculations on simple meshes as well as numerical programming of the algorithms discussed.

INTENDED AUDIENCE : Bachelors, masters and doctoral students, practicing scientists and engineers from industry.

PREREQUISITES : Courses on linear algebra, numerical methods, incompressible fluid mechanics, and heat transfer

INDUSTRIES SUPPORT : General Electric, General Motors, ANSYS, ISRO, DRDO

Summary

Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks
Category :	<ul style="list-style-type: none"> ◦ Mechanical Engineering ◦ Computational Engineering ◦ Computational Thermo Fluids
Credit Points :	3
Level :	Undergraduate/Postgraduate
Start Date :	14 Sep 2020
End Date :	04 Dec 2020

Enrollment Ends :



25 Sep 2020
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(https://swayam.gov.in/nc_details/NPTEL)

Exam Date :

20 Dec 2020 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

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Course layout

Week 1: Review of governing equations

Week 2: Classification of governing equations

Week 3: Overview of numerical solution methods

Week 4: Steady diffusion equation on structured meshes

Week 5: Unsteady diffusion equation on structured meshes

Week 6: Diffusion in unstructured meshes

Week 7: Convection and diffusion

Week 8: Higher-order schemes

Week 9: Convection and diffusion on unstructured meshes

Week 10: Linear system solvers

Week 11: Incompressible flow field calculation

Week 12: Staggered and co-located formulation

Books and references

1. Numerical Heat Transfer and Fluid Flow, Suhas V. Patankar, Hemisphere, New York, 1980.
2. An Introduction to Computational Fluid Dynamics - The Finite Volume Method, H. K. Versteeg and W. Malalasekera, Pearson Education, 2017.
3. Computational Fluid Dynamics, T. J. Chung, Cambridge University Press, 2010.
4. The Finite Volume Method in Computational Fluid Dynamics, F. Moukalled, L. Mangani, M. Darwish, Springer, 2015
5. Computational Methods for Fluid Dynamics, J. H. Ferziger and M. Peric, Springer, 2002

Instructor bio



Prof. Kameswararao Anupindi

IIT Madras

Dr. Kameswararao Anupindi is an Assistant Professor in the Department of Mechanical Engineering at IIT Madras (IITM), Chennai. He obtained his Ph.D. from Purdue University in 2013. Prior to joining IITM, he worked as a post-doctoral researcher at Oak Ridge National Laboratory and at University of Southampton. His research interests include computational fluid dynamics, turbulence modeling and lattice Boltzmann methods.

Course certificate

•The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

- The exam is optional for a fee of Rs 1000 (one thousand only).
- **Date and Time of Exams:** 20 December 2023 (9 AM to 12 noon), 21 December 2023 (10 AM to 5 PM) (https://swayam.gov.in/nc_details/NPTEL)
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

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- Final score = Average assignment score + Exam score

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- Only the e-certificate will be made available. Hard copies will not be dispatched.



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विद्यावर्धनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई
Affiliated to the University of Mumbai

Academic Year 2020-2021

Title of Event: ARDUINO WORKSHOP

Date: 1st - 3rd FEBRUARY, 2021

Time: 2PM

Venue: ONLINE

Organizing Committee: IEEE - SB

No. of Students Present: 53

No. of Staff Present: 1


Faculty Incharge


HOD



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

Report on "Arduino Workshop"

Event Name	Arduino Workshop
Centre (name)	IEEE-SB
Venue (College/Institute)	Vidyavardhini's College of Engineering and Technology
Date & Time	1st -3rd Feb,2021 2.00-4.00pm
Chief Guest	Prof. Shaista Khanam (Asst. Prof,VCET)
Topic of Chief Guest	The topic was based on Arduino and its programming and how the students can make various interesting projects out of it.
Important dignitaries attended	



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

Brief Report

A Three Day workshop on Arduino was organized by the VCET's Department of Electronics & Telecommunication Engineering in association with IEEE-SB from 1st-3rd February, 2021 from 2:00 -4:00 pm . The workshop was organized for Second Year students. The main objective of this workshop was to provide the fundamental knowledge of Arduino Programming . The topics covered in the workshop include – Hardware and Software Programming. The outcome of the workshop was to brush our skills on arduino as well as its simulator.

This informative workshop was taken by Prof. Shaista Khanam (Asst. professor, VCET).

On the first day, Prof. Shaista Khanam started the event workshop by giving a brief description of the components which will be used during the workshop along with the basic coding required for coding Arduino UNO . On second day we got to know How to use the Arduino IDE (Integrated Development Environment), Powering and connecting your Arduino to your computer and Uploading programs to your Arduino board. By the end of the third day students had in-depth knowledge of arduino and hence were able to technically know how to work with arduino and its application in various domains of the present technological era. During the session of three days , the students were given an insight into Introduction to Open Source platform system tools, Interfacing of I/O devices, LEDs, Switch, Buzzer. The students were also taught about Interfacing of Display Devices.

With the help of this workshop, IEEE -SB has tried to instill a basic knowledge of Arduino on students which will be very useful to them for their future projects.

Shaista Khanam



Photographs

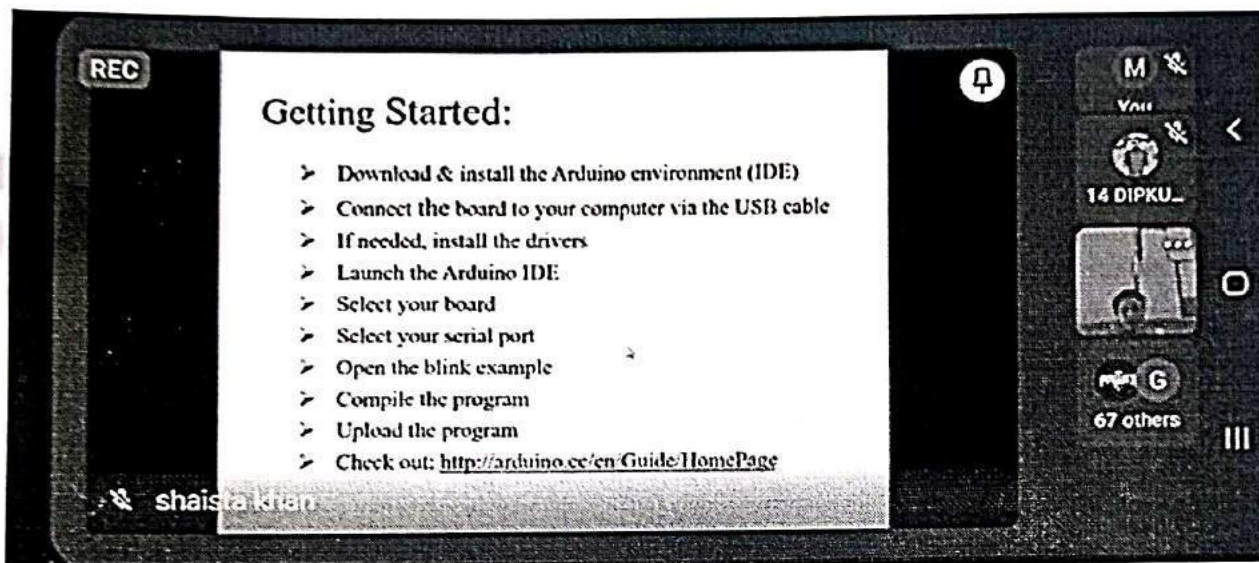


Fig 1: Arduino Workshop

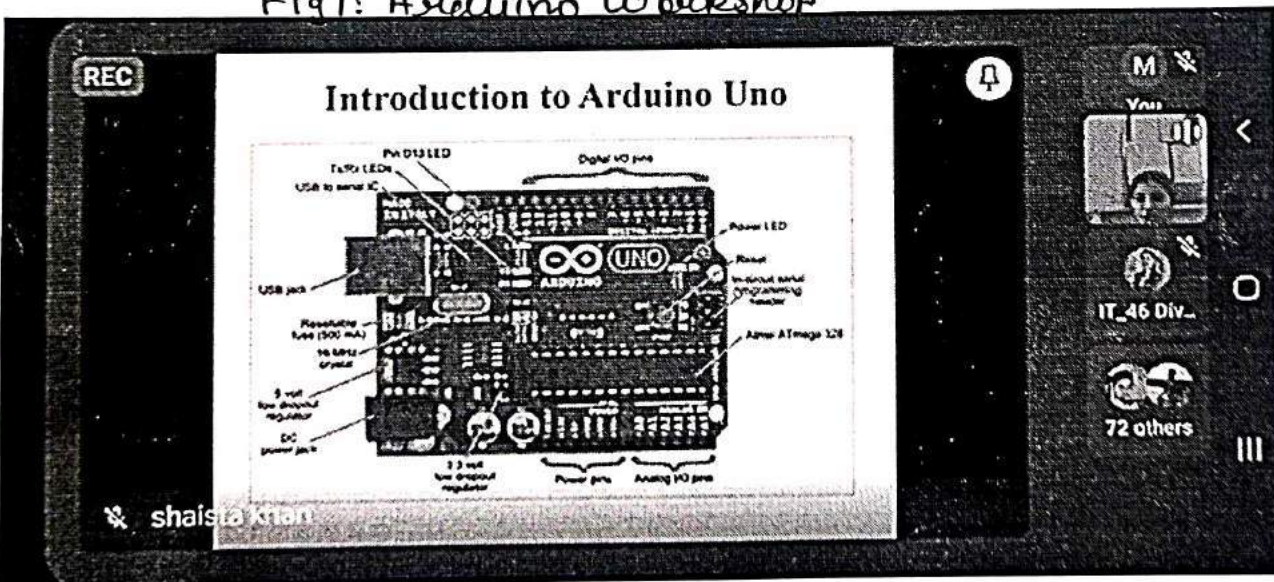


Fig 2: Arduino Workshop



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Department of Electronics and Telecommunication Engineering

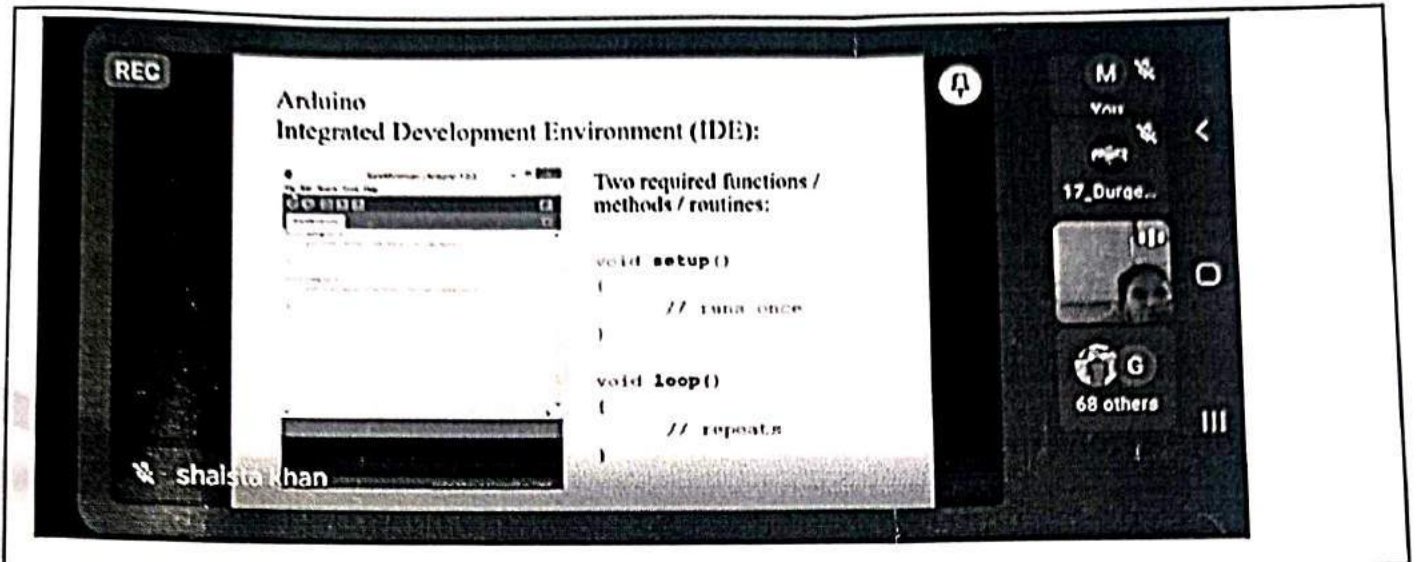


Fig 3: Arduino Workshop

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Vidyavardhini's College of Engineering and Technology, Vasai Road (West)

INTERNSHIP SCHEDULE

1st Feb-3rd Feb 2021

Time: 10:00AM to 1:00PM

Date	Topics	Resource Person
DAY 1 01/02/2021	Arduino Hands on session on: On board led External led Led with switch RGB Led with switch Fading LED	Ms. Shaista Khanam
DAY 2 02/02/2021	Hands on session on: Interfacing of 7 segment display Interfacing of LCD	Ms. Shaista Khanam
DAY 3 03/02/2021	Interfacing of LDR Interfacing of Temp sensor Interfacing of ultrasonic sensor Interfacing of Bluetooth	Ms. Shaista Khanam



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

1st Feb,2021

To,
The Principle,
VCET


Subject: Permission for organising the workshop.


Respected Sir,

The Department of Electronics and Telecommunication Engineering in association IEEE VCET-SB is organising a workshop on 'Arduinoless Arduino workshop' from 1st - 3rd Feb 2021 from 2 pm onwards.

We kindly request you to grant us the permission to organize the event.

Thanking you,
Yours sincerely


Dr. Vikas Gupta
HOD-EXTC


Dr. Sunayana Jadhav
IEEE VCET-SB INCHARGE



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[Http://www.vcet.edu.in](http://www.vcet.edu.in)

3rd Feb 2021.

To,
Prof Shaista Khanam
Asst Prof, Vcet

Subject: Appreciation letter

Respected Madam,

The Department of Electronics and Telecommunication Engineering in association with IEEE VCET-SB organized a workshop on "Arduinoless Arduino workshop" which was held from 1st – 3rd Feb 2021.

The webinar provided participants an insight into the latest projects and programming related to Arduino. The workshop has opened multi-dimensional doors of opportunity to shape the careers of the students. By your guidance, continuous support and encouragement to our students, the workshop became a grand success. We look forward to similar cooperation and support in the future endeavours.

Thankyou,
Yours truly

Dr. Vikas Gupta
HOD-EXTC

Dr. Sunayana Jadhav
IEEE Branch Counsellor



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

EVENT: Arduino workshop.

DATE: 1-3rd Feb 2021.

IMPACT ANALYSIS:

- Briefing and introduction to a new software/tool – Tinker cad for implementation of simple circuit on Arduino.
- Students can use software for testing and implementation of projects Also, engagement of students in product development activities.
- Students implemented their knowledge of Arduino in their Mini Project.



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Affiliated to the University of Mumbai.

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69_Training on Embedded System & IoT

Academic Year 2020/2021

Title of Event: Internship - Embedded System & IoT.

Date: 28th June - 10th July 21.

Time:

Venue: - online

Organizing Committee: IITC & Texas Instruments innovation lab.

No. of Students Present: 108

No. of Staff Present:

Faculty Incharge

HOD

Internship - Details - EXTC-Instru

message

From: shaista khan <shaista.khan@vcet.edu.in>


Sun, Jun 20, 2021 at 5:53 PM

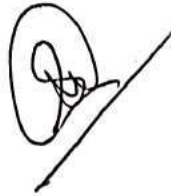
To: prafulla patil <prafulla.patil@vcet.edu.in>

Cc: hod extc <hod_extc@vcet.edu.in>, ekta nalk <ekta.nalk@vcet.edu.in>

Hello Sir,

As per discussion Please find the attachment for detailed content of Internship on "Embedded System and IoT (overview to development)".

 Course_content_details_Internship_IoT_Texas.docx
44K





Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

Texas Instruments innovation Lab

Internship – Embedded System and IoT (overview to development)

Duration: 10 Days (28th June – 10th July)

Total Number of Students in Internship from EXTC and INST: 107					
Day	Date and Duration	Time	Content	Speaker	Internship conducted under
1	28 June, 2021 5 hours	10 to 11:15 AM	<u>Industry 4.0</u> <ul style="list-style-type: none">• key features of Industry 4.0 such as, its Agility, Innovation and Efficiency.• Parameters he talked about were Interoperability, Virtualization, Decentralization, Real-Time Capability, Service Orientation and Modularity.	Mr.B A Dhambe Head CTEA Madh, Corporate Technical Training, L & T Mumbai.	STTP
		11:30AM to 1:30 PM	<u>HARNESSING THE POWER OF IOT</u> <ul style="list-style-type: none">• What is IOT and its awareness?• The progress of IOT in various fields.• Network technologies used in IoT.	Dr. Rita Jain, Co-founder of AVRN labs, Bhopal	STTP



Vidyavardhini's College of Engineering & Technology
Department of Electronics and Telecommunication Engineering

Texas Instruments innovation Lab

Internship – Embedded System and IoT (overview to development)

Duration: 10 Days (28th June – 10th July)

			<ul style="list-style-type: none">Introduced and explained IoT architecture and its layers.		
		2 to 4 PM	<p><u>HANDS ON SESSION WITH SIMULATION SOFTWARE (ARDUINO)-Part 1</u></p> <ul style="list-style-type: none">How to design circuits and program Arduino UNO boards using web based Autodesk application "Tinkercad".Highlighted its application by giving real life IoT usage examples.Key features of Arduino UNO R3 board its design, components mounted over it and peripherals.Explained the programming.	Mrs. Shaista Khanam, Assistant Professor, Coordinator VCET Texas Instrument Innovation Lab, Vasai	STTP
2	29 June, 2021 4 hours 30	10 A.M. to 11:15 A.M.	<p><u>IOT CONSIDERATIONS AND APPLICATION</u></p> <ul style="list-style-type: none">Evolution of	Mr. Yogesh Pingle, Assistant Professor, Dept.	STTP



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Texas Instruments innovation Lab

Internship – Embedded System and IoT (overview to development)

Duration: 10 Days (28th June – 10th July)

minutes		industries	of IT, VCET- Vasai	
		<ul style="list-style-type: none">• Nine pillars of Industry 4.0• Six design principles of industry 4.0.		
	11:30 A.M. to 1 P.M.	<u>HANDS ON SESSION WITH SIMULATION SOFTWARE (ARDUINO)-Part 2</u> <ul style="list-style-type: none">• How to design circuits and program Arduino UNO board using web-based Autodesk application "Tinker cad"• Stimulated a LED fading, LDR, Temperature Sensor LM35, Humidity Sensor, Ultrasonic sensor and motor in Tinker cad.	Mrs. Shaista Khanam, Assistant Professor, Coordinator VCET Texas Instrument Innovation Lab, Vasai	STTP
	2:20 pm to 4:20 pm	<u>TASK BASED on SIMULATION SOFTWARE</u> <ul style="list-style-type: none">• Group task: The groups formed had	Mrs. Ekta Naik, Assistant Professor, Member VCET Texas Instrument Innovation Lab,	STTP



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			<p>to discuss certain applications on demonstrated circuits.</p> <ul style="list-style-type: none"> Implement their own ideas based on the knowledge they had gained so far regarding Arduino. 	Vasai	
3	30 June 2021 5 hours	10 A.M. to 11:15 A.M.	<p><u>Reinforcement Learning for IOT</u></p> <ul style="list-style-type: none"> Basics of machine learning. Detailed information about the reinforcement type of machine learning and the different phenomena involved in it. 	Dr. Prashant Bhopale, Assistant professor at VJTI Mumbai	STTP
		11:30 A.M. to 1:30 P.M.	<p><u>Product Development using IOT</u></p> <ul style="list-style-type: none"> Aspect of product development using IoT. Limitations of Arduino and Raspberry Pi boards, IOT framework, importance and 	Dr. Anand Kakade, Founder of Anand Techno creations, Satara.	STTP



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			necessity of IoT in the upcoming era.		
		2 pm to 4 pm	<u>How to teach employability skills through IOT/WSN</u> <ul style="list-style-type: none">• Various Arduino boards and Raspberry Pi projects were discussed.• Introduced to PSoC Terms and also discussed cloud computing.	Dr. Saurabh Mehta, Chief academic officer and professor in VIT Mumbai.	STTP
4	1st July 2021 5 hours	10 A.M. to 11:15 A.M.	<u>INDUSTRIAL IoT</u> <ul style="list-style-type: none">• The working of different modules provided by Texas instruments which can be useful for development of projects based on IoT.• Energia IDE and use of the blynk app.	Mrs. Trupti Assistant Professor, Member VCET Texas Instrument Innovation Lab, Vasai	STTP
		11:30 A.M. to 1:30 P.M.	<u>CLOUD COMPUTING</u> <ul style="list-style-type: none">• Introduced MQTT Protocol and it's usages.• AWS management	Mr. Chandan Kolvankar and Mr. Sainath Patil, VCET	STTP



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			<p>console i.e Amazon Web services (cloud platform)</p> <ul style="list-style-type: none"> • Aws IoT greengrass and why it is necessary. 		
		2 to 4 PM	<p><u>HANDS ON SESSION WITH STIMULATION SOFTWARE (MATLAB)</u></p>	Mr. Suraj Gawande, Senior Application Engineer Working at Design Tech Systems.	STTP
5	02 July, 2021 5 hours	10.00 am to 11.30 am	<p><u>Automation and Product Management in IoT</u></p> <ul style="list-style-type: none"> • Topics required for the IoT product launching. • Detailed information about the system-level designs and also elaborated the concept of testing (protocols) and refinement necessary to check the designed systems. 		STTP
		11:30AM.-	<u>INDUSTRIAL IOT</u>	Mr. Asim Sinha,	STTP



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		1:00P.M.	Components of Industry 4.0 which included Smart Factory, Cloud Computing, Big Data, Cyber Security, AR-VR, AI-ML Sensor and Connected Devices.	CEO IIoT expert, Industry 4.0 Solution Provider, India Partner of Vorna Industries Inc. USA, Bangalore	
		2 to 4 P.M.	<u>IOT on Agriculture application</u> Advantages of IOT in Agriculture which include Data collection, Reduction of risk, Business goes Automated, Higher quality product, and How IOT can be used in Agriculture.	Mr. Arpit Shrivastava, Technical Head, Infil IOT, Pune.	STTP
6	03 July, 2021 3 hours	10:00 AM- 11:30 AM	<u>CHALLENGES AND RESEARCH TRENDS IN IOT</u> <ul style="list-style-type: none"> • Importance of networks, security, computing of data. • Several research trends were discussed during the session. 	Mr. Jeetendra Shenoy, architect, L&T InfoTech, Mumbai	STTP
		11:30 A.M. to 1:00 P.M.	<u>HARNESSING THE POWER OF MACHINE LEARNING USING IOT</u>	Mr. Vineet Jaruhar, Director at AVRN Intellitech Private	STTP



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			<ul style="list-style-type: none"> Highlighted the difference between Conventional Programming and ML. 4 stage IOT solutions architecture. 	Limited, Bhopal.	
7	05 July, 2021 3 hours	11A.M. to 2P.M.	<u>Embedded System & IOT (overview to development)</u> <ul style="list-style-type: none"> Introduction to C language. Overview on Embedded Systems, it's purpose & applications. Hands-on was performed on Keil. 	Mrs. Shaista Khanam, Assistant Professor, Coordinator VCET Texas Instrument Innovation Lab, Vasai	S.E. Internship.
8	06 July, 2021 3 hours 3 minutes	10:00 A.M. to 1:30 P.M.	<u>A brief overview on MSP430 microcontroller.</u> <ul style="list-style-type: none"> Overview on the MSP 430 microcontroller and explained to us briefly it's features & characteristics. Handson: Blinking of LED, switch and 	Mrs. Shaista Khanam Assistant Professor, Coordinator VCET Texas Instrument Innovation Lab, Vasai	



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			<p>LED, switch & motor on the Proteus software.</p> <ul style="list-style-type: none"> Explained: L293G Motor Driver, 7 segment display & LCD (Liquid Crystal Display) along with their circuit diagrams. 		
9	08 July, 2021 3 hours	10:30 A.M. to 1:30 P.M.	<p><u>EMBEDDED SYSTEM AND IOT.</u></p> <p>Handson: Motor driver IC L293D. 16X2 LCD ARM cortex-M microcontroller of Texas Instruments. Coding in Code Composer Studio.</p>	Mrs. Shaista Khanam Assistant Professor, Coordinator VCET Texas Instrument Innovation Lab, Vasai	S.E. Internship
10	09 July 2021 3 hours	11.00 A.M. to 2.00 P.M.	<p><u>Hands-on Session on Proteus – Raspberry Pi</u></p> <ul style="list-style-type: none"> Introduction to the raspberry pi board and it's features and their application. Hanson Session: Interfacing of Motor driver IC 	Mrs. Shaista Khanam, Assistant Professor, Coordinator VCET Texas Instrument Innovation Lab, Vasai	S.E. Internship



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			<ul style="list-style-type: none">• L293D.• Raspberry Pi Camera interfacing		
11	10 July 2021 2 hours	11.00 A.M. to 1 P.M.	Mini project Day	Mrs.Shaista Khanam, Assisnt Professor, Coordinator VCET Texas Instrument Innovation Lab, Vasai	S.E. Internship

Dr. Vikas Gupta
Head,
VCET Texas Instruments Innovation lab

Ms. Shaista Khanam
Coordinator
VCET Texas Instruments Innovation lab



70_Maharashtra State Certificate In Information Technology

Course Syllabus

Course Details

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Computer and Smartphone – Basic User Skills

Various Information Technology Concepts and Awareness about inventions and discoveries





Smart Typing Skills

Scientific method of errorless typing in English/Devanagari (Marathi/ Hindi)



21st Century Daily Life Skills

For managing and living a better quality of life with the help of various mobile apps and websites



Digital Citizenship Skills

To become a responsible citizen and avail various Government Services/Schemes



21st Century Study Skills

Transform to style of studying in 21st Century and getting its benefits to the fullest





21st Century Scripting Skills

Coding skills to master if you want to thrive in a programming career.



21st Century Office Productivity Skills

Knowledge of Office Automation tools to work effectively and smartly at workplace



21st Century Social Skills

Social Media Skills to make an impression in the Digital World



Go-Green Skills

Norms of eco-friendly use of computers





Netiquettes and Computer Ergonomics

Norms of using computer in a healthy way



21st Century Cyber Security Skills

To educate about risks in the cyber world, and best practices for maintaining safety and security



21st Century Job-Readiness Skills





MS-CIT is an Information Technology (IT) literacy course started by MKCL in the year 2001. It is the most popular IT Literacy course in Maharashtra.



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Contact

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Call Us : +91 20 4011 4500 / 501

Human Values in the AICTE Model Curriculum for Engineering 2018

In 2018, AICTE included UHV in the Model Curriculum. UHV-II (Understanding Harmony) is to be offered as an essential 3-credit course (H-102) in 3rd/4th semester after an orientation to values in UHV-I, which is a prominent module in the Student Induction Program.

UHV-I: Student Induction Program (mandatory)

Pages related to Induction Program "Guide to Induction Program" pages 31-38 of Volume I (see <https://www.aicte-india.org/sites/default/files/Vol.%20I%20UG.pdf>)

UHV-II: 3-credit Course (H-102) (mandatory)**LTPC 2-1-0-3**

Pages related to Course H-102 "Universal Human Values 2: Understanding Harmony" pages 166-170 of Volume II (see <https://www.aicte-india.org/sites/default/files/Vol.%20II%20%20AICTE%20UG%20%20Curriculum.pdf>)

Please see AICTE Web Page: <https://www.aicte-india.org/>

Model Curriculum (from Home Page > Education > Model Curriculum & Sugg. Books (UG Engg.)

<https://www.aicte-india.org/education/model-syllabus>

I. Induction Program

(Please refer **Appendix-A** for guidelines. Details of Induction program also available in the curriculum of Mandatory courses.)

Induction program (mandatory) 3 weeks duration

II. UNIVERSAL HUMAN VALUES 2: UNDERSTANDING HARMONY

Course code: HSMC (H-102)

Credits: 2-1-0-3

Curricular Structure

Semester L-T-P-C Course No. & Title

3 or 4 2-1-0-3 H-102 Universal Human Values 2: Understanding Harmony

Human Values Courses

During the Induction Program, students would get an initial exposure to human values through Universal Human Values – I. This exposure is to be augmented by this compulsory full semester foundation course.

Universal Human Values 2: Understanding Harmony

Course code: HSMC (H-102)

Credits: L-T-P-C 2-1-0-3 or 2L:1T:0P 3 credits

Pre-requisites: None. Universal Human Values 1 (desirable)

1. OBJECTIVE:

The objective of the course is four fold:

1. Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence.
2. Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence
3. Strengthening of self-reflection.
4. Development of commitment and courage to act.

2. COURSE TOPICS:

The course has 28 lectures and 14 practice sessions in 5 modules:

Module 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

1. Purpose and motivation for the course, recapitulation from Universal Human Values-I
2. Self-Exploration—what is it? - Its content and process; ‘Natural Acceptance’ and Experiential Validation- as the process for self-exploration
3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
4. Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
6. Method to fulfil the above human aspirations: understanding and living in harmony at various levels.

Include practice sessions to discuss natural acceptance in human being as the innate acceptance for living with responsibility (living in relationship, harmony and co-existence) rather than as arbitrariness in choice based on liking-disliking

Module 2: Understanding Harmony in the Human Being - Harmony in Myself!

7. Understanding human being as a co-existence of the sentient ‘I’ and the material ‘Body’
8. Understanding the needs of Self (‘I’) and ‘Body’ - happiness and physical facility
9. Understanding the Body as an instrument of ‘I’ (I being the doer, seer and enjoyer)
10. Understanding the characteristics and activities of ‘I’ and harmony in ‘I’
11. Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail
12. Programs to ensure Sanyam and Health.

Include practice sessions to discuss the role others have played in making material goods available to me. Identifying from one’s own life. Differentiate between prosperity and accumulation. Discuss program for ensuring health vs dealing with disease

Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

13. Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfilment to ensure mutual happiness; Trust and Respect as the foundational values of relationship
14. Understanding the meaning of Trust; Difference between intention and competence
15. Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship
16. Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals
17. Visualizing a universal harmonious order in society- Undivided Society, Universal Order- from family to world family.

Include practice sessions to reflect on relationships in family, hostel and institute as extended family, real life examples, teacher-student relationship, goal of education etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students' lives

Module 4: Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

18. Understanding the harmony in the Nature
19. Interconnectedness and mutual fulfilment among the four orders of nature- recyclability and selfregulation in nature
20. Understanding Existence as Co-existence of mutually interacting units in all-pervasive space
21. Holistic perception of harmony at all levels of existence.

Include practice sessions to discuss human being as cause of imbalance in nature (film "Home" can be used), pollution, depletion of resources and role of technology etc.

Module 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics

22. Natural acceptance of human values
23. Definitiveness of Ethical Human Conduct
24. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order

25. Competence in professional ethics: a. Ability to utilize the professional competence for augmenting universal human order b. Ability to identify the scope and characteristics of people friendly and eco-friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems.
26. Case studies of typical holistic technologies, management models and production systems
27. Strategy for transition from the present state to Universal Human Order: a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers b. At the level of society: as mutually enriching institutions and organizations
28. Sum up.

Include practice Exercises and Case Studies will be taken up in Practice (tutorial) Sessions eg. To discuss the conduct as an engineer or scientist etc.

3. READINGS:

3.1 Text Book

1. Human Values and Professional Ethics by R R Gaur, R Sangal, G P Bagaria, Excel Books, New Delhi, 2010

3.2 Reference Books

1. Jeevan Vidya: Ek Parichaya, A Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999.
2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004.
3. The Story of Stuff (Book).
4. The Story of My Experiments with Truth - by Mohandas Karamchand Gandhi
5. Small is Beautiful - E. F Schumacher.
6. Slow is Beautiful - Cecile Andrews
7. Economy of Permanence - J C Kumarappa
8. Bharat Mein Angreji Raj - PanditSunderlal
9. Rediscovering India - by Dharampal
10. Hind Swaraj or Indian Home Rule - by Mohandas K. Gandhi
11. India Wins Freedom - Maulana Abdul Kalam Azad
12. Vivekananda - Romain Rolland (English)

13. Gandhi - Romain Rolland (English)

4. MODE OF CONDUCT (L-T-P-C 2-1-0-3 or 2L:1T:0P 3 credits)

Lectures hours are to be used for interactive discussion, placing the proposals about the topics at hand and motivating students to reflect, explore and verify them.

Tutorial hours are to be used for practice sessions.

While analysing and discussing the topic, the faculty mentor's role is in pointing to essential elements to help in sorting them out from the surface elements. In other words, help the students explore the important or critical elements.

In the discussions, particularly during practice sessions (tutorials), the mentor encourages the student to connect with one's own self and do self-observation, self-reflection and self-exploration.

Scenarios may be used to initiate discussion. The student is encouraged to take up "ordinary" situations rather than "extra-ordinary" situations. Such observations and their analyses are shared and discussed with other students and faculty mentor, in a group sitting.

Tutorials (experiments or practical) are important for the course. The difference is that the laboratory is everyday life, and practical are how you behave and work in real life. Depending on the nature of topics, worksheets, home assignment and/or activity are included. The practice sessions (tutorials) would also provide support to a student in performing actions commensurate to his/her beliefs. It is intended that this would lead to development of commitment, namely behaving and working based on basic human values.

It is recommended that this content be placed before the student as it is, in the form of a basic foundation course, without including anything else or excluding any part of this content. Additional content may be offered in separate, higher courses.

This course is to be taught by faculty from every teaching department, including HSS faculty.

Teacher preparation with a minimum exposure to at least one 8-day FDP on Universal Human Values is deemed essential.

5. ASSESSMENT:

This is a compulsory credit course. The assessment is to provide a fair state of development of the student, so participation in classroom discussions, self-assessment, peer assessment etc. will be used in evaluation.

Example:

Assessment by faculty mentor: 10 marks

Self-assessment: 10 marks

Assessment by peers: 10 marks

Socially relevant project/Group Activities/Assignments: 20 marks

Semester End Examination: 50 marks

The overall pass percentage is 40%. In case the student fails, he/she must repeat the course.

6. OUTCOME OF THE COURSE:

By the end of the course, students are expected to become more aware of themselves, and their surroundings (family, society, nature); they would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind.

They would have better critical ability. They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society). It is hoped that they would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.

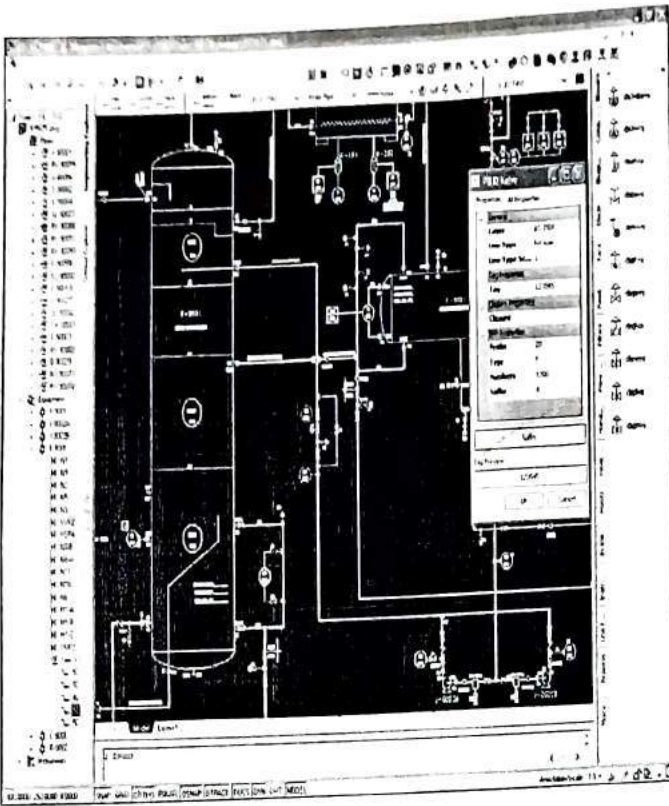
This is only an introductory foundational input. It would be desirable to follow it up by

a) faculty-student or mentor-mentee programs throughout their time with the institution

b) Higher level courses on human values in every aspect of living. E.g. as a professional



Internship Programme on AVEVA P&ID Report



AVEVA P&ID: .An Intelligent, AutoCAD-based P&ID Design Application

AVEVA P&ID is a P&ID drafting program that enables users to create intelligent, project-wide data as the P&ID is designed, using the familiar AutoCAD drafting system. It enables a wide range of documents (drawings, isolation, reports, list ...) to be generated.

AVEVA P&ID is suitable for basic and detailed engineering, for EPCs and Owner Operators. AVEVA P&ID has been used in the development of many projects worldwide, in all Plant and Marine sectors including nuclear.

AVEVA P&ID Application Software includes following three modules:

- 1) AVEVA P&ID Administration
- 2) AVEVA P&ID User
- 3) AVEVA P&ID Report

Total 19 Students registered and attended this internship programme from 06-12-2021 to 17-12-2021.

In the starting students were introduced to AVEVA P&ID and AVEVA Instrumentation software modules by Dr. Deepak Gawali. In the beginning students were introduced to AVEVA P&ID Administrator module and then students asked to implement P&ID by following the steps given in AVEVA P&ID User manual.

Microsoft Excel is one of the vital tool for Design Engineering. This module was covered by Ms. Deepti Patne. Basic Excel Features and formulas were discussed. Students were asked to do various exercises based on it.



AVEVA is an instrumentation documentation software for industrial projects. The students were introduced to concepts of instrumentation symbols and standards such as ISA and SAMA which are helpful in developing P&ID diagrams, loop diagrams, etc. using the AVEVA modules. The students developed flow and temperature loop diagrams along with tag names and numbers. The students were introduced to various project deliverables which need to be prepared for industrial projects.

The students attempted a quiz at the end of the session where they were able to analyze their understanding of the symbols and standards used in the industry. The correct answers were discussed with the students and they enjoyed doing it.





Vidya Vardhini's College of Engineering and Technology, Vasai Road (west)

Department of Instrumentation Engineering

Internship on Instrumentations for Project Industry

06/12/21 TO 17/12/21

PROGRAMME SCHEDULE

DAY/TIME	9.00 TO 11.30	11.30 TO 11.45	11.45 TO 1.45	1.45 TO 2.00	2 TO 3.30	3.30 TO 3.45	3.45 TO 5.15
DAY 1 06/12/21(MONDAY)	INAGUARATION DR.H.VANKUNDRE	T E A B R E A K	SESSION 1 INTRODUCTION TO AVEVA SOFTWARE	B R E A K	SESSION 2 INTRODUCTION TO P& ID SYMBOLS	SESSION 3 INTRODUCTION TO ADMINISTRATIVE MODULE	SESSION 4 PRACTICE ON ADMINISTRATIVE MODULE
DAY 2 07/12/21(TUEDAY)	SESSION 1 TEST ON P&ID SYMBOL		SESSION 2 INTRODUCTION TO AVEVA P&ID USER MODULE		SESSION 3 PRACTICE ON AVEVA P&ID USER MODULE	SESSION 4 PRACTICE ON AVEVA P&ID USER MODULE	SESSION 5 PRACTICE ON AVEVA P&ID USER MODULE
DAY 3 08/12/21(WENSDAY)	SESSION 1 INTRODCION TO AUTOCAD		SESSION 2 PRACTICING ON DIFFERENT P&ID DIAGRAM ON AUTOCAD SOFTWARE		SESSION 3 PRACTICING ON DIFFERENT P&ID DIAGRAM ON AUTOCAD SOFTWARE	SESSION 4 PRACTICING ON DIFFERENT P&ID DIAGRAM ON AUTOCAD SOFTWARE	SESSION 5 PRACTICING ON DIFFERENT P&ID DIAGRAM ON AUTOCAD SOFTWARE
DAY 4 09/12/21(THURDAY)	SESSION 1 INTRODUCTION TO MICROSOFT EXCEL		SESSION 2 PRACTICING MICROSOFT EXCEL COMMANDS		SESSION 3 PRACTICING MICROSOFT EXCEL COMMANDS	SESSION 4 PRACTICING MICROSOFT EXCEL COMMANDS	SESSION 5 PRACTICING MICROSOFT EXCEL COMMANDS

DAY 5 10/12/21(FRIDAY)	SESSION 1 INTRODUCTION TO AVEVA P&ID REPORT	SESSION 2 UNDERSTANDING REPORT FROMATTING	SESSION 3 PRACTISING ON REPORT FORMATING	SESSION 4 PRACTISING ON REPORT FORMATING	SESSION 5 PRACTISING ON REPORT FORMATING
DAY 6 13/12/21(MONDAY)	SESSION 1 DIFFERENT REPORT GENERATION METHOD	SESSION 2 DIFFERENT REPORT GENERATION METHOD	METHOD OF IMPORT AND EXPORT IN AVEVA REPORT	SESSION 4 METHOD OF IMPORT AND EXPORT IN AVEVA REPORT	SESSION 5 METHOD OF IMPORT AND EXPORT IN AVEVA REPORT
DAY 7 14/12/21(TUESDAY)	SESSION 1 PRACTICE ON REPORT GENERATION	SESSION 2 PRACTICE ON REPORT GENERATION	SESSION 3 PRACTICE ON REPORT GENERATION	SESSION 4 PRACTICE ON REPORT GENERATION	SESSION 5 PRACTICE ON REPORT GENERATION
DAY 8 15/12/21(WENSDAY)	SESSION 1 PRACTICE SESSION	SESSION 2 PRACTICE SESSION	SESSION 3 PRACTICE SESSION	SESSION 4 PRACTICE SESSION	SESSION 5 PRACTICE SESSION
DAY 9 16/12/21(THURDAY)	SESSION 1 PRACTICE SESSION	SESSION 2 PRACTICE SESSION	SESSION 3 PRACTICE SESSION	SESSION 4 PRACTICE SESSION	SESSION 5 PRACTICE SESSION
DAY 10 17/12/21(FRIDAY)	SESSION 1 DOUT SOLVING	SESSION 2 PRACTICE SESSION	SESSION 3 PRACTICE SESSION	SESSION 4 PRACTICE SESSION	SESSION 5 PRACTICE SESSION



73_SDP on Cyber Security-
Individual, Technology & Research
Trends

Sunil

Permission to organize SDP on Cybersecurity

2 messages

Megha Trivedi <megha.trivedi@vcet.edu.in>
To: "Dr. Harish Vankudre" <principal@vcet.edu.in>
Cc: sunil katkar <sunil.katkar@vcet.edu.in>

Thu, Jun 10, 2021 at 1:38 PM

Dear Sir,

The Department of Computer Engineering wishes to organize a Student Development Programme(SDP) along with the ISTE approved STTP on ' **Cyber Security: Individual, Technology and Research Trends**' from 21st to 26th June 2021. Students will be participating in the same sessions that are hosted for STTP(probably through a separate meet link).

There is no additional budget required for the SDP. Students will be charged a nominal fee of Rs. 100/- and will be issued a certificate from the Institute.

We request you to kindly grant us permission to organize the SDP.

thanks and regards

--

[Dr. Megha Trivedi](#)
[PhD, IIT Bombay](#)
[Associate Professor HOD, Computer Engineering](#)
[Vidyavardhini's College of Engineering and Technology,](#)
[K.T.Marg, Vasai West; Pin-401202](#)
[Mobile No-9764197184](#)
[office-0250-2338234,Ext 214.](#)

Dr. Harish Vankudre <principal@vcet.edu.in>
To: Megha Trivedi <megha.trivedi@vcet.edu.in>
Cc: sunil katkar <sunil.katkar@vcet.edu.in>

Thu, Jun 10, 2021 at 1:41 PM

Permitted

[Quoted text hidden]



Vidyavardhini's College of Engineering & Technology

Vasai Road(W), Dist. Palghar, Maharashtra

Department of Computer Engineering

presents

Student Development Programme on

Cyber Security: Individual, Technology and Research Trends

Topics

- * Need for Cyber Security
- * Cyber Security Fundamentals
- * Biometric Security
- * Individual Security, Cybercrimes and Data Privacy Laws
- * IoT Security
- * Security Tools
- * Technologies in Cyber Security
- * Zero Trust Security
- * Research Trends

JUNE 21- 26 2021

Registration Details

Registration Fees : Rs. 100/-

Fee Payment :

Beneficiary Name : Sunil Katkar

Mobile No. 9820855096

UPI ID : sunilkatkar49@oksbi

Register on:

http://tiny.cc/SDP_Cybersecurity



Patron

Dr. Harish Vankudre
Principal, VCET

Convener

Dr. Megha Trivedi
HOD, Computer Engineering

Coordinator

Prof. Sunil Katkar
Mob. No. 7718883302

Participants are entitled to get an e-certificate upon successful completion of the course

Speakers : Experts in the domain from Industry and Academia

One Week Online Student Development Program (SDP)

On

“Cyber Security: Individual, Technology & Research Trends”

Duration: 21st - 26th June 2021

Participants: Student from Colleges of Engineering.

● **Course Objectives:-**

- 1.To familiarise participants with the idea of, importance and need of Cyber Security
- 2.To familiarise participants with the idea of securing oneself
- 3.To familiarise participants with cybercrimes, reporting, data privacy laws, and mitigations
- 4.To familiarise participants with the new technologies like Machine Learning and DeepLearning used in Cyber Security
- 5.To familiarise participants with Internet of Things and wearable device security
- 6.To familiarise participants with the tools used for checking the vulnerabilities in the systems and websites
- 7.To familiarise participants with technology & Research Trends used in Cyber Security

Faculty Involved:

1. Convener
 - Dr. Megha Trivedi
2. Coordinator
 - Prof. Sunil Katkar
3. Organizing Committee
 - Dr. Swapna Borde
 - Prof. Anil Hingmire
 - Prof. Vishal Patil

Responsibilities of committees:

Sr. No.	Name of Faculty	Committee	Responsibilities
	Dr. Megha Trivedi	Overall Co-ordination	To coordinate with other committee members for smooth conduction of the program. In case of absence of any committee members, need to make alternate arrangements. Timely reporting Principal about the activities
	Dr. Megha Trivedi	SDP Form Submission	To submit SDP form

	Dr. Tatwadarshi Nagarhalli	Registration	To prepare registration form
	Dr. Megha Trivedi Dr. Swapna Borde Prof. Anil Hingmire Prof. Vishal Patil	Speakers Arrangement	To contact speakers. To co-ordinate with speakers.
	Prof. Sneha Mhatre	meet Link	To create online meet link
	Dr. Tatwadarshi Nagarhalli Prof. Smita Jawale Prof. Sunil Katkar Prof, Sneha Mhatre	Quiz	To prepare quiz form
	Dr. Swapna Borde Dr. Tatwadarshi Nagarhalli Prof. Anil Hingmire	Topics to be covered in SDP	Day wise technical contents to be covered in SDP
	Prof. Sunil Katkar	Budget and Certificate	Tracking record of every transaction. To prepare certificate
	Prof. Sunil Katkar	Feedback	To prepare feedback form sessionwise
	Dr. Megha Trivedi Dr. Tatwadarshi Nagarhalli Prof. Smita Jawale Prof. Sunil Katkar Prof. Sneha Mhatre	Anchoring	To start each session. To introduce each speaker. To conclude each session.
	Dr. Megha Trivedi Dr. Tatwadarshi Nagarhalli Prof. Smita Jawale Prof. Sunil Katkar Prof. Sneha Mhatre	Documentatio n	To prepare poster for SDP. To prepare invitation, appreciation and other letters. To prepare SDP Report. To prepare course material for SDP Report Submission.
	All Faculty Members	Publicity	To invite and contact intra and inter college faculties.

DAY 1 – 21/06/2021 (Monday)

Inauguration Function:

The One Week online Short Term Training Program was organized from 21st June - 26th June 2021 on “**Cyber Security: Individual, Technology & Research Trends**”. Programme started with a welcome note by HOD, Dr. Megha Trivedi and address note by Principal, Dr. Harish Vankudre. Prof. Smita Jawale, gave the overview of contents to be covered in this programme along with schedule. The function concluded with a Vote of Thanks presented by Coordinator Prof. Sunil Katkar.

The Online SDP was attended by about 40 participants.

The Meet link for the sessions is shown in the table:-

Date	Time	Title of Topic	Expert	Host/Guest Link	YouTube link
Monday, June 21, 2020	10.30 to 12.00	Smart Healthcare/Medical IoT and Access Control Frameworks	Dr.Parikshit Mahalle, Professor and HOD, Comp. Engg, SKNCOE, Pune	http://meet.google.com/xmo-tbzc-fip	
	2 pm to 4 pm	Cyber Security Fundamentals	Prof. Yogesh Jadhav, Corporate Trainer and Assistant Professor, Amity University	http://meet.google.com/xmo-tbzc-fip	
Tuesday, June 22, 2020	10.30 to 12.00	Biometric Security	Dr. Nilanjan Dey, Associate Professor, JIS University, Kolkata. Editor-in-Chief: Int. J. of Ambient Computing and Intelligence (Scopus, DBLP, ACM dl, WoS)	http://meet.google.com/xmo-tbzc-fip	
	2 pm to 4 pm	Securing Oneself in the cyber world	Mr. Sachin Dedhia, CISA, CEH, CEI, ISO 27001 LA, Founder - Skynet Secure	http://meet.google.com/xmo-tbzc-fip	
Wednesda y, June 23, 2020	10.30 to 12.00	ML-DL in Cyber Security	Mr. Amey Tambe, Director at SoftTech Data Securities	http://meet.google.com/xmo-tbzc-fip	
	2 pm to 4 pm	Kali Linux and Open Source Security Tools hands on	Dr. Dayanand Ambawade, Associate Professor, SPIT, Mumbai	http://meet.google.com/xmo-tbzc-fip	
Thursday, June 24, 2020	10.30 to 12.00	Technology and Research Trends in Cyber Security	Dr. Narendra Shekokar, Professor, DJSCE, Mumbai	http://meet.google.com/xmo-tbzc-fip	
	2 pm to 4 pm	Security tools Hands on	Prof. Yogesh Jadhav, Corporate Trainer and Assistant Professor, Amity University	http://meet.google.com/xmo-tbzc-fip	

Friday, June 25, 2020	10.30 to 12.00	Cybercrimes, reporting, data privacy laws, and mitigations	Mr. Vicky Shah, Advocate Cybercrime, Data Protection and Privacy	http://meet.google.com/xmo-tbzc-fip	
	2 pm to 4 pm	IoT Wearable devices: Security and Digital Forensics	Dr. Ramchandra Mangrulkar, Associate Professor, DJSCE, Mumbai	http://meet.google.com/xmo-tbzc-fip	
Saturday, June 26, 2020	10.30 to 12.00	Zero Trust Security Model	Mr. Devesh Mathur, Associate Consultant, Tata Consultancy Services	http://meet.google.com/xmo-tbzc-fip	
	2 pm to 4 pm	Online Quiz and Valedictory function		http://meet.google.com/xmo-tbzc-fip	

Session details are as follows:-

☐ **Day 1 Report (21 June 2021)**

❖ **Session 1 (10:30 am –12.00 pm) :**
Speaker:- Dr.Parikshit Mahalle

Topic:- Smart Healthcare/Medical IoT and Access Control Frameworks

Dr.Parikshit Mahalle has described following points

- Basics of Cyber Security
- Medical IOT application
- **Access framework Protocols like OAuth 2.0 and UMA 2.0**

❖ **Session 2(2 pm –4 pm) :**

Speaker:- Prof. Yogesh Jadhav

Topic:- Cyber Security Fundamentals

Prof. Yogesh Jadhav has given hands on session on following points:

- Information about cyber security
- Challenges that we faces in cyber world
- What precautions should be taken in the cyber world?
- Tools that can be used to check the authenticity of emails.

☐ **Day 2 Report (22 June 2021)**

❖ **Session 1 (10:30am –12.30 pm) :**
Speakers: Dr. Nilanjan Dey

Topic: Biometric Security (Deep Biometrics)

Dr. Nilanjan Dey discussed the following points

- Different Biometrics based Authentication
- Fingerprint, Iris, ears metrics and authentication
- Mouse eye movement data for authentication
- Deep Learning finger vein based authentication

❖ **Session 2 (2pm –4pm) :**

Speaker: Mr. Sachin Dedhia

Topic: Securing Oneself in the cyber world

Mr. Sachin Dedhia discussed following points

- Recent data breaches
- Securing GMail
- FlexiSpy
- Haveibeenpwned website
- Different ways of securing oneself

□ **Day 3 Report (23 June 2020)**

❖ **Session 1 (10.30 am -12.30 pm) :**

Speaker - Mr. Amey Tambe, Director at SoftTech Data Securities.

Topic: ML-DL in Cyber Security

Mr. Amey Tambe has described following points

- What exactly Cyber Security
- Practical case study about using ML and DL for solving facial detection
- Direct application of threat and threat analysis
- Different Malware Analysis Tools.
- Fireeye Cyber Threat Map.
- Zero Day Vulnerability

❖ **Session 2 (2 pm -4.30 pm) :**

Speaker -Mr. Dayanand Ambawade, Assistant Professor, SPIT, Mumbai

Topic:- "Kali Linux and Open Source Security Tools hands on"

Mr. Dayanand Ambawade has given a brief description about the following topics.

- Setting up Lab for Cybersecurity Hands-on Practice
- Kali Linux
- Open Source Security Tools
- Internet Footprinting
- Network/web/Host Scanning using nmap, nikto and fping
- Network Sniffing using tcpdump/wireshark/tshark/ettercap
- Session Hijacking
- Security Visualization
- InfoSec coding using scapy
- Vulnerability Assessment and System Hacking

- Firewall Configuration
- InfoSec coding using scapy
- Digital Forensics- Disk Forensics/ Memory Forensics/ Network Forensics

□ Day 4 Report (24 June 2021)

❖ Session 1 (10.30 am - 12.30 pm) :

Speaker - Dr. Narendra Shekokar, Professor & HOD, DJSCE Mumbai

Topic - Technology and Research Trends in Cyber Security

Dr. Narendra Shekokar gave a presentation on Technology and Research Trends in Cyber Security . He has described

following points

- Concept of Phishing Attacks
- Detection of Phishing attacks using ML Techniques
- Guideline to select ML Algorithms
- IOT in Healthcare
- 6LowPAN protocol stack
- Vulnerability in RPL protocol

❖ Session 2 (2pm –4pm) :

Speaker - Prof. Yogesh Jadhav

Topic: Security tools Hands on

- Prof. Yogesh Jadhav has described following points
 - WireShark
 - OpenSH
 - SPYRIX,ParrotOS
 - Tools that can be used to check the authenticity of emails.

□ Day 5 Report (25 June 2021)

❖ Session 1(10.30 am -12.30 pm) :

Speaker - Mr. Vicky Shah, Advocate Cybercrime, Data Protection and Privacy

Topic: Cybercrimes, reporting, data privacy laws, and mitigations

Mr. Vicky Shah has given a brief description about **Cybercrimes**. He has described following points

- Internet disadvantages
- Online Risk
- Social Networking and blogs
- Computer related offences-cyber crime
- Crime against Individual

❖ Session 2(2 pm to 4 pm) :

Speaker:- Dr. Ramchandra Mangrulkar, Associate Professor, DJSCE, Mumbai

Topic:- IoT Wearable devices: Security and Digital Forensics

- **Dr. Ramchandra Mangrulkar** has described following points
- IoT wearable Technology

- IoT cloud platform
- Wearable:Case Studies
- IoTAnalysis
- IoT Security
- IoT Forensics

□ **Day 6 Report (26 June 2020)**

❖ **Session 1(10.30am -12.30 pm) :**
Speaker: Mr. Devesh Mathur

Topic: Zero Trust Security Model

Mr. Devesh Mathur discussed the following points

- Basic Architecture of Zero trust security model
 - Principle components in Zero trust security
-
- Course Outcomes:- Learner will be able to
1. The Participants will be able to understand the importance of Cyber security and take measures to secure oneself in the cyber world.
 2. The Participants will have the necessary information in order to report a cyber crime and appreciate the privacy laws.
 3. The Participants will be able to make use of new technologies like Machine Learning and Deep Learning in the cyber security domain.
 4. The Participants will be able to appreciate the security challenges in securing IoT and wearable devices.
 5. The Participants will be able to use different open source security tools available on Kali linux for experimentations



HEAD

Dept. of Computer Engg.,
Vidyavardhini's College of
Engineering and Technology,
Vasai Road 401 202





One week Student Development Programme on

Cyber Security: Individual, Technology & Research Trends

21st - 26th June 2021

Schedule

Day 1 21/06/2021	10:00 – 10:30 am : Inauguration Ceremony		
	Session I 10:30am – 12:30pm	Session II 2:00pm – 4:00pm	Quiz 4:00pm – 4:15pm
Day 1 21/06/2021	Smart Healthcare/Medical IoT and Access Control Frameworks (Dr.Parikshit Mahalle, Professor and HOD, Comp. Engg, SKNCOE, Pune)	Cyber Security Fundamentals (Prof. Yogesh Jadhav, Corporate Trainer and AssistantProfessor, Amity University)	Daily Quiz and Declaration of the Participant of the day
Day 2 22/06/2021	Biometric Security (Dr. Nilanjan Dey, Associate Professor, JIS University, Kolkata. Editor-in-Chief: Int. J. of Ambient Computingand Intelligence (Scopus, DBLP, ACM dl, WoS))	Securing Oneself in the cyber world (Mr. Sachin Dedhia, CISA, CEH, CEI, ISO 27001 LA, Founder - Skynet Secure)	
Day 3 23/06/2021	ML-DL in Cyber Security (Mr. Amey Tambe, Director at SoftTech Data Securities)	Kali Linux and Open Source Security Tools hands on (Dr. Dayanand Ambawade, Associate Professor, SPIT, Mumbai)	
Day 4 24/06/2021	Technology and Research Trends in Cyber Security (Dr. Narendra Shekokar, Professor, DJSCE, Mumbai)	Security tools Hands on (Prof. YogeshJadhav, Corporate Trainer and AssistantProfessor, Amity University)	
Day 5 25/06/2021	Cybercrimes, reporting, data privacy laws, and mitigations (Mr. Vicky Shah, Advocate Cybercrime, Data Protectionand Privacy)	IoT Wearable devices: Security and Digital Forensics (Dr. Ramchandra Mangrulkar, Associate Professor, DJSCE, Mumbai)	



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Day 6 26/06/2021	Zero Trust Security Model (Mr. Devesh Mathur, Associate Consultant, Tata Consultancy Services)	Recent Trends in Cyber Security and Market Opportunities (Mr. Mithil Gharat, Deputy Manager, Deloitte)	4:00-4:15 Valedictory Function Test: 4:15 onwards
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HEAD

Dept. of Computer Engg.,
Vidyavardhini's College of
Engineering and Technology,
Vasai Road 401 202





Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year 2020-21

9th February, 2021

To,
The Principal,
VCET, Vasai

Subject: Permission for organizing a Student Development Programme on Data Science and Machine Learning

The Department of Computer Engineering wishes to organize a 40Hrs Student Development Programme on Data Science and Machine Learning from 15th February to 06th March 2021 for the Second and Third-Year students from 6.00 to 8.00 pm on an online mode. This SDP will be conducted by experts from ExcelR solutions founded by IIM, IIT and ISB alumni, a leading training company in Data Science and Artificial intelligence, headquartered in Houston, USA and branches in Mumbai, Pune, Bangalore, and Hyderabad.

We hereby request you to grant us permission for organizing the programme.

Thanking you,

Yours truly,

Prof. Dhanashree Raut
Coordinator

Dr. Megha Trivedi
HOD, Computer Engineering



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year 2020-21

Report on

SDP on Data Science and Machine Learning

Class: SE/TE

Date of Conduction: 15/2/2021 to 6/3/2021

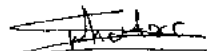
Description: The key points discussed in the lecture were:

- In day today life importance of data science and machine learning
- What is data science and machine learning?
- Latest applications of data science driving efficiency in the oil & gas industry
- Data Science vs. Data Analytics vs. Machine Learning

Outcome: Students can learn all of the tools and techniques that are needed to succeed as a Data Scientist, Data Analyst, and Machine Learning

Around 25 students attended the Student Development Program.

Prepared by


Mrs. Sneha Mhatre

About the Company: ExcelR solutions founded by IIM, IIT and ISB alumni, a leading training company in Data Science and Artificial intelligence, headquartered in Houston, USA and branches in Mumbai, Pune, Bangalore, and Hyderabad. They are conducting a free Student and Faculty Development Program(FDP) for all streams like BCA, BBA, B Pharm, MBA and Engineering on Data Science and Machine Learning.

Course Details: The course is 40 hrs. duration, designed for Student and covering statistics, Machine Learning, Natural Language Processing and Forecasting with hands-on using R and Python.

- 1) Detail Syllabus for FDP (40 hours)
- 2) Daily how many hours - 1hr 30mnts
- 3) Required Software - Python (Jupyter notebook)
- 4) Mode of Conduct - Online (Zoom application- ExcelR will provide the zoom)
- 5) Attendance and Certification details. - ExcelR tracks the attendance every day and certificates from ExcelR will be issued to the participants. **70% attendance should be there to get the certificates.**

Topics:

Topic	Sub Topic
Data science Project Lifecycle	Introduction to Types of Analytics, Project Life Cycle
Basic Stat	Data Types, Measure Of central tendency, Measures of Dispersion
Basic Stat Contd..	Graphical Techniques, Skewness & Kurtosis, Box Plot.
Python	Python (Installation and basic commands) and Libraries, Jupyter notebook, Set up Github
Basic Stat Contd..	Central Limit Theorem, Confidence interval
Hypothesis Testing	Hypothesis Testing
EDA	Data analysis and Visualization (Scatter Diagram, Correlation Analysis)
Linear Regression	Principles of Regression, Intro to Simple Linear Regression
Linear Regression	Multiple Linear Regression
Logistic Regression	Logistic Regression
Data Mining: Unsupervised ML Algorithms	Clustering introduction, Hierarchical clustering
Data Mining: Unsupervised ML Algorithms	Means
Dimensional Reduction Techniques	PCA
Market Basket Analysis	Association Rules
Supervised Machine Learning	Supervised Machine Learning Concept(Regression Tasks/Classification Tasks)
Decision Tree	Decision Tree(C5.0)
Modal Validation Techniques	Model Validation Methods (train-test, CV, Shuffle CV, and Accuracy methods)
Ensembled Techniques	Bagging and Random Forest, Boosting
Classifiers	KNN, Support Vector Machines
Neural Network	ANN, Back Propagation method
Text Mining	Introduction to Text Mining, VSM, Intro to word embeddings
Naive Bayes	Text classification using Naive Bayes



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- ✓ Use formulas and functions to perform calculations on data. Automate choices and data lookups using functions.
- ✓ Create easy-to-use spreadsheets. Validate data, find and correct errors. Create navigation aids for large workbooks.

Skills you'll gain

Data Validation Microsoft Excel Microsoft Excel Macro Pivot Table

Details to know



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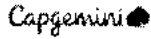
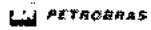
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Specialization - 4 course series coursera

This specialization is intended for anyone who seeks to develop one of the most critical and fundamental digital skills today. Spreadsheet software remains one of the most ubiquitous pieces of software used in workplaces across the world. Learning to confidently operate this software means adding a highly valuable asset to your employability portfolio. In the United States alone, millions of job advertisements requiring Excel skills are posted every day. [Research by Burning Glass Technologies and Capital One](#)  shows that digital skills lead to higher income and better employment opportunities. At a time when digital skills jobs are growing much faster than non-digital jobs, completing this specialization will position you way ahead of others.

In this Specialization, learners develop advanced Excel Skills for Business. Upon completing the four courses in this Specialization, learners can design sophisticated spreadsheets, including professional dashboards, and perform complex calculations using advanced Excel features and techniques. Learners have acquired the skills to manage large datasets efficiently, extract meaningful information from datasets, present data and extract information effectively. In addition, learners have mastered the skills needed to validate data and prevent errors in spreadsheets, create automation, apply advanced formulas and conditional logic to help make decisions and create spreadsheets that help forecast and model data.

Applied Learning Project

The best way to learn Excel is to use Excel. In this specialization, learners will solve a broad range of business problems as they apply the Excel skills and techniques they learn along the way. This specialization uses downloadable Excel workbooks and full data sets with applied examples and practical challenge exercises. This provides learners with countless opportunities to practice their Excel skills while discovering new and useful productivity features of Excel for a variety of business contexts.

Read more

Excel Skills for Business: Essentials

Course 1 • 26 hours • 4.9 ★ (47,514 ratings)

[Course details](#) 

What you'll learn

In this first course of the specialization Excel Skills for Business, you will learn the essentials of Microsoft Excel. Within six weeks, you will be able to expertly navigate the Excel user interface, perform basic calculations with formulas and functions, professionally format spreadsheets, and create visualizations of data through charts and graphs.

Whether you are self-taught and want to fill in the gaps for better efficiency and productivity, or whether you have never used Excel before, this course will set you up with a solid foundation to become a confident user and develop more advanced skills in later courses.

The best way to learn Excel is to use Excel. In this course, learners will solve a broad range of business problems as they apply the Excel skills and techniques they learn along the way. This course uses downloadable Excel workbooks and full data sets with applied examples and practical challenge exercises. This provides learners with countless opportunities to practice their Excel skills while discovering new and useful productivity features of Excel for a variety of business contexts.

Spreadsheet software is one of the most ubiquitous pieces of software used in workplaces across the world. Learning to confidently operate this software means adding a highly valuable asset to your employability portfolio. At a time when digital skills jobs are growing much faster than non-digital jobs, make sure to position yourself ahead of the rest by adding Excel skills to your employment portfolio.

Read more

Skills you'll gain

Graphs Spreadsheet Microsoft Excel Chart

Excel Skills for Business: Intermediate I

Course 2 • 27 hours • 4.9 ★ (16,465 ratings)

[Course details](#) 

What you'll learn

Spreadsheet software remains one of the most ubiquitous pieces of software used in workplaces across the world. Learning to confidently operate this software means adding a highly valuable asset to your employability portfolio. In the United States alone, millions of job advertisements requiring Excel skills are posted every day. Research by Burning Glass Technologies and Capital One shows that digital skills lead to higher income and better employment opportunities at a time when digital skills jobs are growing much faster than non-digital jobs.

In this second course of our Excel specialization Excel Skills for Business you will build on the strong foundations of the Essentials course. Intermediate Skills I will expand your Excel knowledge to new horizons. You are going to discover a whole range of skills and techniques that will become a standard component of your everyday use of Excel. In this course, you will build a solid layer of more advanced skills so you can manage large datasets and create meaningful reports. These key techniques and tools will allow you to add a sophisticated layer of automation and efficiency to your everyday tasks in Excel.

Once again, we have brought together a great teaching team that will be with you every step of the way. Prashan and Nicky will guide you through each week (and I am even going to make a guest appearance in Week 5 to help you learn about my favourite tool in Excel - shh, no spoilers!). Work through each new challenge step-by-step and in no time you will surprise yourself by how far you have come. This time around, we are going to follow Uma's trials and tribulations as she is trying to find her feet in a new position in the fictitious company PushPin. For those of you who have done the Essentials course, you will already be familiar with the company. Working through her challenges which are all too common ones that we encounter everyday, will help you to more easily relate to the skills and techniques learned in each week and apply them to familiar and new contexts.

[Read more](#)

Skills you'll gain

Concatenation Microsoft Excel Consolization Pivot Table Pivot Chart

Excel Skills for Business: Intermediate II

Course 3 • 28 hours • 4.8 ★ (7,886 ratings)

[Course details](#) ^

What you'll learn

Spreadsheet software remains one of the most ubiquitous pieces of software used in workplaces across the world. Learning to confidently operate this software means adding a highly valuable asset to your employability portfolio. In this third course of our Excel specialization Excel Skills for Business you will delve deeper into some of the most powerful features Excel has to offer. When you have successfully completed the course you will be able to

Check for and prevent errors in spreadsheets;
Create powerful automation in spreadsheets;
Apply advanced formulas and conditional logic to help make informed business decisions; and
Create spreadsheets that help forecast and model data.

Once again, we have brought together a great teaching team that will be with you every step of the way. Nicky, Prashan and myself will guide you through each week. As we are exploring these more advanced topics, we are following Alex who is an Excel consultant called in by businesses that experience issues with their spreadsheets.

[Read more](#)

Skills you'll gain

Lookup Table Microsoft Excel Vba Data Validation Microsoft Excel Macro

Excel Skills for Business: Advanced

Course 4 • 26 hours • 4.7 ★ (5,680 ratings)

[Course details](#) ^

What you'll learn

Spreadsheet software remains one of the most ubiquitous pieces of software used in workplaces around the world. Learning to confidently operate this software means adding a highly valuable asset to your employability portfolio. Across the globe, millions of job advertisements requiring Excel skills are posted every day. At a time when digital skills jobs are growing much faster than non-digital jobs, completing this course will position you ahead of others, so keep reading.

In this last course of our Specialization Excel Skills for Business you will build on the strong foundations of the first three courses: Essentials, Intermediate I + II. In the Advanced course, we will prepare you to become a power user of Excel - this is your last step before specializing at a professional level. The topics we have prepared will challenge you as you learn how to use advanced formula techniques and sophisticated lookups. You will clean and prepare data for analysis, and learn how to work with dates and financial functions. An in-depth look at spreadsheet design and documentation will prepare you for our big finale, where you will learn how to build professional dashboards in Excel.

[Read more](#)

Skills you'll gain



- Dashboard (Business)
- Financial Modeling
- Microsoft Excel
- Data Cleansing

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Frequently asked questions

- > **How long does it take to complete the Specialization?**
- > **What background knowledge is necessary?**

> Do I need to take the courses in a specific order?



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- Generative AI for Everyone
- Generative AI with Large Language Models
- IBM Applied AI Professional Certificate
- Machine Learning Specialization
- Natural Language Processing Specialization
- Prompt Engineering for ChatGPT
- Supervised Machine Learning
- See All Artificial Intelligence Courses

Popular Programs

- Google Cybersecurity Professional Certificate
- Google Data Analytics Professional Certificate
- Google Digital Marketing & E-commerce Professional Certificate
- Google IT Automation with Python Professional Certificate
- Google IT Support Professional Certificate
- Google Project Management Professional Certificate
- Google SEO Fundamentals
- Google UX Design Professional Certificate
- Intuit Academy Bookkeeping Professional Certificate
- Python for Everybody Specialization
- UI / UX Design Specialization

Popular Skills

- Cybersecurity Courses
- Data Analysis Courses
- Data Science Courses
- Digital Marketing Courses
- Excel Courses
- Google Courses
- Power BI Courses
- Product Management Courses
- Project Management Courses
- Python Courses
- SQL Courses
- See All Courses

Popular Career Resources

- Become a Data Analyst
- CAPM Certification Requirements
- Cybersecurity Career Paths
- Data Analyst Career Guide
- Essential IT Certifications
- High-Income Skills Worth Learning
- How to Get a PMP Certification
- Popular Cybersecurity Certifications
- Popular Data Analytics Certifications
- Popular PMI Certifications
- Popular SQL Certifications
- See All Career Resources

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- Translators
- Blog
- Tech Blog
- Teaching Center

More

- Press
- Investors
- Terms
- Privacy
- Help
- Accessibility
- Contact
- Articles
- Directory
- Affiliates
- Modern Slavery Statement
- Do Not Sell/Share

Learn Anywhere





VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Founder President Late Padmashri H. G. Vartak

(Approved by AICTE and Affiliated to the University of Mumbai)

Four Branches Permanently Affiliated by University of Mumbai

K. T. Marg, Vasal Road (W), Dist. Palghar - 401 202, Maharashtra.

Tel.: 0250-2338234 (6 Line) • Email : vcet_inbox@vcet.edu.in • Website : www.vcet.edu.in

PAT Centre

76_Campus Recruitment Training

Date:12-10-2020

To,

The Principal,

VCET Vasai.

Subject: Request to permit CRT Aptitude Training Sessions for Third Year students graduating in June 2022.

Respected Sir,

Training & Placement Cell is planning to schedule CRT Aptitude Training session by Campus Credential for Academic Year 2020-21.

CRT Aptitude Training will assist students to prepare for Placement & Higher Studies entrance examination. Completion certificate will be awarded to students at the end of the training after assessing at regular intervals.

Attached herewith is the proposal including Syllabus for the training.

Kindly permit our request.

Thank You.

Best Regards,

Prof. Prafulla Patil,

Placement Manager

VCET Vasai

Approved

**APTITUDE AND SOFT SKILLS TRAINING
BY CAMPUS CREDENTIAL
Year 2020-21**

Campus Credential (CC) is fastest growing training institute that is established itself as Campus Credential (CC) is a forerunner in the education and training sector since its inception. CC has successfully provided aptitude training to various colleges with high success rate. The philosophy of the company has always been student-centric rather than profit-centric, which makes CC the ideal choice for students. a most reputed aptitude and soft skill training academy of Maharashtra. The philosophy of the academy has always been student-centric rather than profit-centric, which makes CC the ideal choice for students. Campus Credential provide Campus Recruitment Training (CRT) to VCET students from last few years. CRT is dynamic course that is constantly updated according Industrial requirement. Campus Credential specializes in MBA entrance exam and other competitive exams training, including CAT, XAT, IIFT, SNAP, NMAT, CET, Bank PO, etc. CampPAT, the unique training module designed by CC, is an innovative learning concept that enables students to crack these exams more efficiently. Camp Test Series is an e-learning module designed to help students learn concepts without classroom training. Campus Credential also trains students for GRE, GMAT, TOEFL, IELTS, etc. along with personalized counselling that enables students to plan and execute their further studies outside India. CC provide mentors and counsellors to students to monitor the entire training session.

“Success is where preparation and opportunity meet” is a philosophy adapted by campus Credential.

CC has designed their own testing platform, training modules and course materials, which enables students to update and upgrade regularly. The trainers and mentors are highly experienced with the credentials to match.

Training and Placement cell had organized aptitude and soft skill training to VCET students through Campus Credential at college premises. Selection of Campus Credential as training partner is based on students’ feedback on demo lecture of Campus Credential.

Aptitude training is to be conducted in 3 phases of training contents as discussed below

PHASE : I		
Content	Subject	Duration/Hours
Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5
Quant-Arithmetic		5

Vidyavardhini's College of Engineering & Technology, Vasai

Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	6
Verbal-Reasoning		5
Logical Reasoning 2(Puzzles)		5
Resume Building lecture /PI Preparation/GD brief	Soft Skills	4
Essay writing		2
Total hours per batch		48-50 Hrs approx
PHASE: II		
Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5
Quant-Arithmetic		5
Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	3
Verbal-Reasoning		2
Logical Reasoning 2(Puzzles)		2
Essay Writing	Soft Skills	4
Communication		2
Group Discussion		6
Resume /Personal Interview		4
Personal Interview Individual (One to One by corporates)		20
Total hours per batch		

PHASE: III ONLINE MOCK INTERVIEW

A mock interview helps students to experience way to answer difficult questions, develop interview strategies, improve communication skills, and reduce stress before an actual placement drive. During a mock interview. the interviewer may use a semi-structured interview format rather than asking a formal list of questions.

Four important benefits of mock interview are

1. It Help to reduce stress and anxiety about interviewing.
2. It help to boost student's confidence.
3. It provide constructive feedback in a Low-Stress Environment.
4. It help students prepare for Behavioural-Based Interview Questions

Campus credential had arranged face to face interview of each students. It build confidence in students to face interview by company HR and higher study admission decision committee.

The training for Third year students was conducted on mentioned schedule.

Year	Date	No of Students Attended
TE	26/2/21 to 18/04/21 (In Online Mode)	22



**Competitive Exams and Aptitude Training for TE
BY CAMPUS CREDENTIAL**

Year 2020-21

SCHEDULE

Training and Placement cell had organized aptitude and soft skill training to VCET students through Campus Credential at college premises. Selection of Campus Credential as training partner is based on students' feedback on demo lecture of Campus Credential.

Aptitude training was conducted in 3 phase's details of training contents as below

PHASE : I		
Content	Subject	Date
Verbal-Reading Comprehension	English	27/2/2020
Verbal-Ability		28/2/2020
Quant-Vedic math's	Mathematics	6/3/2020
Quant-Arithmetic		7/3/2020
Quant-Numbers		9/3/2020
Quant-Geometry		10/3/2020
Logical Reasoning 1	Logical Reasoning	16/3/2020
Verbal-Reasoning		17/3/2020
Logical Reasoning 2(Puzzles)		19/3/2020
Resume Building lecture /PI Preparation/GD brief	Soft Skills	20/3/2020
Essay writing		21/3/2020
Total hours per batch		48-50 Hrs approx
PHASE: II		
Verbal-Reading Comprehension	English	20/4/2020
Verbal-Ability		21/4/2020

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

Quant-Vedic math's	Mathematics	21/4/2020
Quant-Arithmetic		21/4/2020
Quant-Numbers		22/4/2020
Quant-Geometry		23/4/2020
Logical Reasoning 1	Logical Reasoning	24/4/2020
Verbal-Reasoning		25/4/2020
Logical Reasoning 2(Puzzles)		26/4/2020
Essay Writing	Soft Skills	16/5/2020
Communication		17/5/2020
Group Discussion		19/5/2020
Resume /Personal Interview		22/5/2020
Personal Interview Individual (One to One by corporates)		23/5/2020


Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

PHASE: III MOCK INTERVIEW

A mock interview helps students to experience way to answer difficult questions, develop interview strategies, improve communication skills, and reduce stress before an actual placement drive. During the mock interview, the interviewer may use a semi-structured interview format rather than asking a formal list of questions.


Campus Credential had arranged face to face interview of each students. It builds confidence in students to face interview by company HR and higher study admission decision committee.

In Year 2020-21 Campus Credential and Training and Placement Cell had provided all phases of aptitude and soft training for students. Students of all branches were attended these training sessions.


Prof. Sanket Patil

Training and Placement cell




Prof. Prafulla Patil

Training and Placement cell

Vidyavardhini's College Of Engineering and Technology

Date: 11/01/2019

To
The Principal
VCET, Vasai (W)

Subject: Permission for starting new batch of German Language Course

Respected Sir,

Since last 3 years we have started German language course in our college.

We would like to start new batch from the beginning of this semester. The course consists of A1 German language syllabus.

The registration process will get start after getting permission from you.

The course will be conducted only on Monday 5.00 to 7.00 pm.(Only 1 day in a week) It will get adjusted according to holidays on Monday. The course will take approximately 52 hours.

The registration fees for this course is Rs.2500/- only.

Kindly do the needful.

Thanking You.

Yours faithfully,

Yogesh P. Pingle

Prof. Yogesh P. Pingle
German language Teacher

Expected Students	30 Students	40 Students	50 Students
Total Income	30*2500 = 75000/-	40*2500=100000/-	50*2500=125000/-
Remuneration@500Rs. Per Lecture * 52	26000/-	26000/-	26000/-
Book Cost @780Rs. Per Student	30*780=23400/-	40*780=31200/-	50*780=39000/-
Profit To College	25600/-	42800/-	60000/-

Surplus remitted to

* Last year Permission Letter and permission letter from management are enclosed.

Kindly permit as it is part of softskills development

[Signature]
11/01/2019

HOD IT

confirmed & paid as per resolution
Permitted

To Registrar / Accountant
Approved
The Remuneration to be paid as per resolution of the college

[Signature]
11/01/19



Syllabus

Subject Code	Subject Name	Examination Scheme					
		Theory Marks		Term Work	Practical	Oral	Total
		Internal assessment	End Sem. Exam				
		Test1					
A1	German Language	20	40	20	--	20	100

Module – 1

(12Hr) CO1

1. Alphabets, Compound letters and their pronunciations
2. Practice pronunciations
3. Chapter 1 (Conversation)
4. Cases and Personal Pronoun, The Verb: Present Tense (Regular Verbs)
5. The Verb (Special Verbs) sein and haben
6. Chapter 2 (Conversation)
7. Possessive Pronoun, Demonstrative Pronoun and Reflexive pronoun
8. Numbers
9. Chapter 3 (Conversation)
10. Frage (Questions) pronouns: Wer (who) and Was (what)
11. Days, Months, Years
12. Myself, Our Family

Module – 2

(12Hr) CO2

1. Types of Verbs
 - a. Regular Verbs & Irregular Verbs
 - b. Transitive & Intransitive Verbs
 - c. Strong & Separable Verbs
 - d. Modal Verbs
2. Conjugation of Verbs
3. Chapter 4 (A Journey)
4. Nouns - Declination
5. Word Order – Sentence formation
6. Chapter 5 (A friend Comes)
7. Chapter 6 (2 Hours in Munchen)
8. Prepositions with Dative (Local and Temporal)



9. Prepositions with Accusative (Local and Temporal)
10. Timings

Module - 3

(14Hr)

CO3

1. Meals and Timings
2. Chapter 7 (Conversation)
3. Modal Verbs in detail
4. Chapter 8 (My House)
5. Prepositions with Dative or Accusative
6. Articles depending on action and / or position (wohin and wo)
7. Describe the picture
8. Chapter 9 (A journey)
9. Genitive Case
10. Past Tense (Imperfect)
11. Perfect Tense
12. Verb Conjugation Schemes (Present – Past – Perfect)

Module - 4

(14Hr)

CO4

1. Daily Routine (Morning till evening)
2. Letter writing
3. Adjective Declination
4. Ja-nein-doch (Different answers – yes, no)
5. Neben sentences (Composite sentences) – because, that
6. Relative Sentences
7. Colours, Vegetables, fruits
8. Internet / Computer Vocabulary
9. Email Writing
10. Writing Resume (Bio Data)

Text Books:

1. "Deutsche Sprachlehre für Ausländer", by Dora Schulz, Heinz Griesbach, Max Hueber Verlag
2. "Netzwerk Deutsch als Fremdsprache A1", by Helen Schmitz Stefanie Dengler, Paul Rusch, Langenscheidt; First Indian Edition 2015 edition (2015)

Online References:

1. https://www.youtube.com/channel/UCPK3Vd_cdMZ35q6DWE1KFSA
2. https://onlinecourses.nptel.ac.in/noc21_hs30/preview
3. https://onlinecourses.nptel.ac.in/noc19_hs50/preview



Vidyavardhini's College of Engineering & Technology

German Club (Established in 2016)

Assessment:

Internal Assessment for 20 marks:

Consisting of One Compulsory Class Test Approximately 40% to 50% of syllabus content must be covered in the test.

End Semester Examination:

End Semester Test consists of full syllabus.

Theory exam is of 40 M.

Term Work = 20 M which consists of at least 4 assignments, 4 quizzes.

Oral Exam = 20 M which consists of Dictation – 5 M, Listening Comprehension – 5 M, Reading Ability – 5 M, Oral – 5 M

Jogesh P. Pingle
Jogesh P. Pingle



Vidyavardhini's College of Engineering & Technology
Department of Information and Technology

January 20, 2021

78_Student Development Programme on
"Technological Guideposts"

To,
The Principal,
VCET, Vasai

Subject : To organize SDP from January 27, 2021 to January 30, 2021

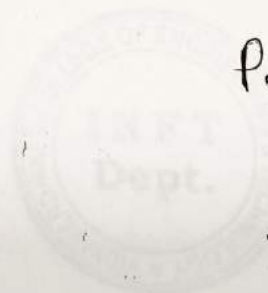
Respected Sir,

Department of Information Technology wishes to organize a Student Development Program (SDP) from January 27, 2021 to January 30, 2021 on broad theme of "Technological Guideposts" from January 27, 2021 to January 30, 2021 in an online mode. The sessions in the same will be taken by faculty and alumni of the Department. Since, the SDP will be conducted in online mode, there are no direct expenses for the same.

Hence, we herewith request you to kindly give permission to organize the SDP. The schedule of the SDP is attached herewith.

Thanking you.

Dr. Ashish Vanmali
HOD - INFT,
VCET, Vasai.



Permitted

25/01/2021



Vidyavardhini's College of Engineering & Technology
Department of Information Technology

“Technological Guideposts”
(Students Development Programme)

Schedule

Date	Morning Session 9.00 -1.00pm	Evening Session 2.00-5.30pm	Resource person
27/1/21	IOT for music therapy	Hands On Session	Mr Yogesh Pingle
28/1/21	Conversational AI	Hands On Session	Ms Michelle Parayil
29/1/21	Getting your ideas to reality	Hands On Session	Mr Ballal Pathare
30/1/21	React	Back-end development with Node Js	Mr Swapnil Mistry and Mr Tarun Singh

HEAD

Dept. of Information Technology
Vidyavardhini's College of
Engineering and Technology,
Vasai Road 401 202.



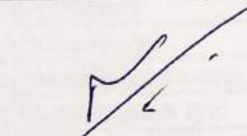
**VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY**

DEPARTMENT OF INFORMATION TECHNOLOGY

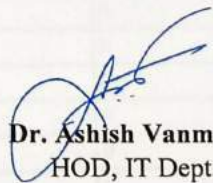
K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

**SDP on
Technological Guideposts**

Date / Time	1 st January 2021 – 30 th January 2021
Venue/Platform	Online
Duration	30 hrs.
Speaker	Mr. Yogesh Pingle Ms. Michelle Parayil Mr. Ballal Pathare Mr. Swapnil Mistry Mr. Tarun Singh
Coordinator	Ms. Anagha Patil, IT VCET
Target audience	SE and TE
Objectives of this seminar	<ol style="list-style-type: none">1. Expose students to New technological avenues.2. Orient students towards upcoming technologies.3. Orient students towards new career opportunities.
No. of attendees	67
Participants	SE Students of 2022-23 batch (IT)
Registration Fee	Nil
Points discussed in the session	Learning Outcomes: Students will be able to: <ol style="list-style-type: none">1. Gain insights into new avenues2. Implement simple full stack application.3. Convert ideas into business opportunities

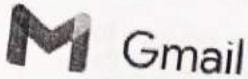

Ms. Anagha Patil
AP, IT Dept.




Dr. Ashish Vanmali
HOD, IT Dept.

1/13/2021

vidyavardhini's college of engineering and technology Mail - Fwd: Permission for SDP and Bridge Course on "Python for Data Science"



Dr. Madhavi W

79_Student Development Programme on " Python for Data Science" u.in>

Fwd: Permission for SDP and Bridge Course on "Python for Data Science"

2 messages

hod it <hod_it@vcet.edu.in>

Fri, Jul 3, 2020 at 7:35 PM

To: madhavi waghmare <madhavi.waghmare@vcet.edu.in>, chandan kolvankar <chandan.kolvankar@vcet.edu.in>

The permission is given for the course. The budget will be approved after management's permission. Till that we can start sessions by IT faculty.

Thanks & Regards

Dr. Ashish V. Vanmali

Associate Professor,
Head, Department of Information Technology
Vidyavardhini's College of Engineering & Technology
Vasai Road(W), Dist.- Palghar, 401202
India
Email - ashish.vanmali@vcet.edu.in
Office - (0250)2338234 Ext.- 222

----- Forwarded message -----

From: **hod it** <hod_it@vcet.edu.in>

Date: Fri, Jul 3, 2020 at 5:38 PM

Subject: Re: Permission for SDP and Bridge Course on "Python for Data Science"

To: Dr. Harish Vankudre <principal@vcet.edu.in>

I think we will have around 40000 left in dept. activity budget from last year. However this will go in this years budget

Thanks & Regards

Dr. Ashish V. Vanmali

Associate Professor,
Head, Department of Information Technology
Vidyavardhini's College of Engineering & Technology
Vasai Road(W), Dist.- Palghar, 401202
India
Email - ashish.vanmali@vcet.edu.in
Office - (0250)2338234 Ext.- 222

On Fri, Jul 3, 2020 at 5:33 PM Dr. Harish Vankudre <principal@vcet.edu.in> wrote:

Sir,
Permitted. Regarding the budget I will get sanction from management.
Do you any budget left in the Department activity budget ?
Can we make it as a department activity budget in future?
Dr. Vankudre

On Tue, Jun 30, 2020 at 8:07 PM hod it <hod_it@vcet.edu.in> wrote:

Dear Sir,

Department of Information Technology want to organize Student Development Programme (SDP) and Bridge Course on "Python for Data Science", which is to be held from 6th July 2020 in the online mode. SDP is designed for 60 hrs which is an Advance course on Data Science. The content of the course is enclosed herewith. The course will be highly beneficial for the students to make them industry ready.

13/2021

vidyavardhini's college of engineering and technology Mail - Fwd: Permission for SDP and Bridge Course on "Python for Data Science"

Our faculties will be the resource persons for most of the sessions. Some sessions will be arranged by inviting external speaker. The approximate expenses towards the remuneration will be approximately Rs. 15000/-. **We herewith request you to grant the permission to conduct the SDP and sanction Rs. 15000/- for the same.**

--

Thanks & Regards

Dr. Ashish V. Vanmali

Associate Professor,

Head, Department of Information Technology

Vidyavardhini's College of Engineering & Technology

Vasai Road(W), Dist.- Palghar, 401202

India

Email - ashish.vanmali@vcet.edu.in

Office - (0250)2338234 Ext.- 222

Dr. Madhavi Waghmare <madhavi.waghmare@vcet.edu.in>

To: hod_it <hod_it@vcet.edu.in>

Sat, Jul 4, 2020 at 2:31 PM

Ok

Thank You

[Quoted text hidden]

Vidyavardhini's College of Engineering and Technology
 Department of Information technology
 Python for data science

Contents

Sr. No.	Topic	Hrs.
1.	Introduction Data structures-lists, set, dictionary, tuples, files. List comprehensions, Lambda functions, Date-time functions, Regular expressions, XML processing, JSON processing, Database access, Web scrapping	4
2.	Numpy Data types, Arrays, Ndarray object, Creating arrays, Indexing and Slicing, Broadcasting, Shape and reshape, Array Manipulations, String functions, mathematical functions, Arithmetic operations, Statistical functions, Sorting and Searching, Matrix library, Linear algebra, I/O with Numpy.	6
3.	Scipy Basic functionality, Cluster, FFT pack, Integrate, Interpolate, Linear Equations, ndImage, Optimizations, Statistics, Csgraph, Spatial, ODR,	5
4.	Pandas Datastructures, Basic functionality, Statistics, Function applications, Reindexing, sorting, working with text data, Window function, Aggregations, Time Deltas, Missing data	5
5.	Matplotlib Simpleplot, pyplot API, Pylab, figure class, axes class, multiplots, Grids, formatting axis, 2-D plots, 3-D plots, working with images.	4
6.	PLSQL Data types, Operators, Conditions, Loops, Strings, Arrays, Procedure, Functions, Cursors, Exceptions, Triggers, Collections, Date-time, Transactions.	3
7.	NoSQL Introduction, Features, Types, CAP theorem, MongoDB, Redis, Cassandra, Neo 4j	5
8.	Enterprise data management Data storage hosting, replication, disaster recovery, optimization..	2

9.	Introduction to Data Mining Association, regression, classification, clustering, outlier detection, prediction.	3
10.	Introduction to Neural Network Introduction, neurons, cost function, loss function, gradient descent, logistic regression, hidden layer, 2-layer network, CNN, RNN, self-organizing NN	7
11.	Scikit learn Introduction, Modelling process, Data representation, Estimator API, Linear modelling, Gradient descent, SVM, Anomaly detection, Anomaly detection, KNN learning, Naïve Bayes, Decision trees, Clustering methods.	5
12.	Introduction to Bigdata Features, issues, Hadoop ecosystem, HDFS, Yarn, Spark, hive	4
13.	Tensorflow Introduction, Installation, Tensors, loading and exploring data, visualization, Neural network with Tensorflow, Deep learning with Tensorflow.	7
	Total	60

mlhd





Vidyavardhini's College of Engineering & Technology
Department of Information Technology

“Python for Data Science”

(Students Development Programme)

Schedule

Morning Session -9.00 -12.30pm

Date	Resource person
6 th 7 th and 8 th July 2020	Mr Chandan Kolwankar
9 th ,10 th . and 13 th July 2020	Mrs Maryam Jawadwala
14 th ,15 th and 16 th July 2020	Mr Sainath Patil
17 th ,20 th and 21 st July 2020	Mrs Anagha Patil
22 nd ,23 rd and 24 th July 2020	Dr Madhavi Waghmare
27 th and 28 th July 2020	Mrs Swati Varma
29 th and 30 th July 2020	Mr Yogesh Pingle




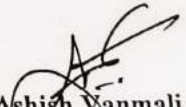
HEAD

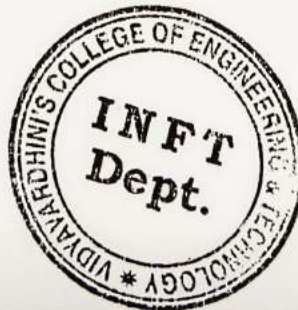
Dept. of Information Technology
Vidyavardhini's College of
Engineering and Technology.
Vasai Road 401 202.

**Online SDP on
Python for Data Science**

Date / Time	First video upload - 6 th July 2020 Last video upload - 6 th October 2020
Venue/Platform	Online- https://www.youtube.com/playlist?list=PLPF8Cn4HXaS1bP-mqHb5prK481ZXMZ1uP&jct=3ts7N8kSuQXuvYPvqBJSagUq8p1AaQ
Duration	60 hrs.
Speaker	Faculty of IT Department
Coordinator	Mrs. Madhavi Waghmare, IT VCET
Target audience	SE
Objectives of this seminar	<ol style="list-style-type: none">1. Expose students to Python packages.2. Orient students towards Machine learning.3. Expose students to concepts of Visualization.4. To orient students towards
No. of attendees	47
Participants	SE Students of 2021-22 batch (IT)
Registration Fee	None
Points discussed in the session	Students had completed a Python course in the syllabus. This was an advanced course for the same student. Learning Outcomes: Students will be able to: <ol style="list-style-type: none">1. Handle data using Numpy and Pandas2. Visualize data using Matplotlib3. Data management using SQL and NoSQL Database4. Implement Data mining algorithms using SKLearn.


Mrs. Madhavi Waghmare
AP, IT Dept.


Dr. Ashish Vanmali
HOD, IT Dept.



Quiz on Data Mining-Python for Data Science

Department of Information Technology

anagha.patil@vcet.edu.in [Switch account](#)



* Indicates required question

Email *

Your email

Clustering is unsupervised technique because.... *

1 point

- Training dataset is available.
- No predefined classes.
- Testing dataset is available.
- Of predefined classes.

Time series prediction of stock market indices is an example of the following data mining task.

* 1 point

- Association Rule Mining
- Regression
- Classification
- Clustering



Hierarchical clustering requires the number of clusters, K as the input. * 1 point

- True
- False

K-Means algorithm is terminated when... * 1 point

- Assignment of objects to the cluster with nearest seed point does not change
- Assignment of objects to the cluster with nearest seed point changes

The predictive data mining tasks are... * 1 point

- Regression and Classification
- Classification and Clustering
- Clustering and Regression
- Association Rule Discovery and Classification

If the object significantly deviates from the rest of the data set, then it is.... * 1 point

- Contextual Outlier
- Collective Outlier
- Global Outlier
- Any of the above

Timestamp	Email Address	Score
8/8/2020 20:33:49	rutujashinkar09@gmail.com	4 / 10
8/9/2020 17:03:01	paragpatankar7@gmail.com	7 / 10
8/9/2020 21:53:37	rutujachawara@gmail.com	8 / 10
8/9/2020 22:55:13	rushanksheta00@gmail.com	4 / 10
8/9/2020 23:10:32	shwetagupta22031607@gmail.com	4 / 10
8/9/2020 23:14:34	sweetysingh1609@gmail.com	10 / 10
8/9/2020 23:16:12	dhruprajapati18@gmail.com	10 / 10
8/9/2020 23:16:35	neelmehat9409@gmail.com	10 / 10
8/9/2020 23:16:44	himanshubhalala73030@gmail.com	10 / 10
8/9/2020 23:16:53	choudharysaurav69@gmail.com	10 / 10
8/9/2020 23:17:05	riyamaheshpatil0701@gmail.com	10 / 10
8/9/2020 23:17:24	harshkalppandya96@gmail.com	10 / 10
8/9/2020 23:17:28	bmatul139@gmail.com	10 / 10
8/9/2020 23:17:37	itsashu5656@gmail.com	9 / 10
8/9/2020 23:18:31	vedantdesai2810@gmail.com	9 / 10
8/9/2020 23:18:41	anjalichaurasiya90909@gmail.com	10 / 10
8/9/2020 23:18:44	moreakshay725@gmail.com	10 / 10
8/9/2020 23:19:05	prit.ps4606@gmail.com	10 / 10
8/9/2020 23:19:38	yewalehardik@gmail.com	10 / 10
8/9/2020 23:21:34	sohammadhvani@gmail.com	9 / 10
8/9/2020 23:22:04	samruddhi.24.99@gmail.com	10 / 10
8/9/2020 23:22:33	shrutikharkar3@gmail.com	10 / 10
8/9/2020 23:22:39	ankitakawade2311@gmail.com	10 / 10
8/9/2020 23:25:47	shreyatawre123@gmail.com	10 / 10
8/9/2020 23:26:44	chintantrivedi786@gmail.com	10 / 10
8/9/2020 23:27:07	suchitborge30@gmail.com	10 / 10
8/9/2020 23:28:24	vanashree.vcet@gmail.com	10 / 10
8/9/2020 23:28:41	nishamin9@gmail.com	10 / 10
8/9/2020 23:29:20	malapmansi9@gmail.com	10 / 10
8/9/2020 23:30:34	aakanksharmohite@gmail.com	10 / 10
8/9/2020 23:35:43	dharmeshthorgavankar@gmail.com	10 / 10
8/9/2020 23:39:12	jobaliayash@gmail.com	10 / 10
8/9/2020 23:39:36	nainay1805@gmail.com	10 / 10
8/9/2020 23:40:07	isheetshetty@gmail.com	10 / 10
8/9/2020 23:42:51	nirmitlakhani314@gmail.com	10 / 10
8/10/2020 0:00:36	yuktaupadhey1@gmail.com	9 / 10
8/10/2020 0:11:54	jidnyasaraut18@gmail.com	9 / 10
8/10/2020 0:21:52	pranaypatre15@gmail.com	10 / 10
8/10/2020 7:52:16	dee1010yadav@gmail.com	8 / 10
8/10/2020 8:04:13	pruthvihajare29@gmail.com	10 / 10
8/10/2020 8:09:24	omchavan1998@gmail.com	9 / 10
8/10/2020 8:31:41	ranveerkothavale09@gmail.com	10 / 10

Timestamp	Email Address	Score
8/10/2020 8:40:03	paaraas93@gmail.com	10 / 10
8/10/2020 8:41:00	aakanksha2706@gmail.com	10 / 10
8/10/2020 9:12:46	prathameshsuryavanshi9@gmail.com	10 / 10
8/10/2020 9:17:24	Chiragdarji04@gmail.com	10 / 10
8/10/2020 9:24:02	hackerman6393@gmail.com	10 / 10
8/10/2020 9:32:58	maniyarkrishna5@gmail.com	10 / 10
8/10/2020 9:33:12	jddeorukhkar@gmail.com	10 / 10
8/10/2020 9:40:11	shivanishirke789@gmail.com	10 / 10
8/10/2020 9:53:49	ruchi.bari85@gmail.com	10 / 10
8/10/2020 10:03:27	ankitchaudhary272001@gmail.com	10 / 10
8/10/2020 10:29:29	ram.vaghani18@gmail.com	9 / 10
8/10/2020 11:01:46	hridayeshmore16@gmail.com	10 / 10
8/10/2020 13:00:30	tejalille18@gmail.com	10 / 10
8/10/2020 19:44:51	mrnunmayeeapte27@gmail.com	10 / 10
8/10/2020 21:28:49	menonabhineet@gmail.com	9 / 10
8/10/2020 23:11:48	anvitasuvarna13@gmail.com	10 / 10

← ↻ 🔒 https://www.coursera.org/learn/python?utm_source=gg&utm_medium=sem&utm_campaign=B2C_INDIA_google-it-

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Explore ▾

What do you want to learn?



About

Outcomes

Modules

Recommendations

Testimonials

Reviews

What you'll learn

- ✓ Install Python and write your first program
- ✓ Describe the basics of the Python programming language
- ✓ Use variables to store, retrieve and calculate information
- ✓ Utilize core programming tools such as functions and loops

Skills you'll gain

Python Syntax And Semantics

Basic Programming Language

Computer Programming

Python Programming

Details to know



Shareable certificate

Add to your LinkedIn profile



Assessments


5 quizzes



English

Subtitles: Kazakh, German, +20 more

← ↻ 🔒 <https://www.coursera.org/learn/python-data#about>

 Python Data Structures

About Outcomes Modules Recommendations Testimonials Reviews




What you'll learn

- ✓ Explain the principles of data structures & how they are used
- ✓ Store data as key/value pairs using Python dictionaries
- ✓ Create programs that are able to read and write data from files
- ✓ Accomplish multi-step tasks like sorting or looping using tuples

Skills you'll gain

Python Syntax And Semantics Data Structure Tuple Python Programming

Details to know

 Shareable certificate Add to your LinkedIn profile	 Assessments 5 quizzes	 English Subtitles: Kazakh, German, +20 more
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82_Programming for everybody (Coursera)

The screenshot shows a web browser window with the Coursera website. The browser's address bar displays the URL: https://www.coursera.org/learn/python-crash-course?utm_source=gg&utm_medium=sem&utm_campaign=B2C_INDI. The website header includes navigation links for 'For Individuals', 'For Businesses', 'For Universities', and 'For Governments'. The Coursera logo is followed by an 'Explore' dropdown menu and a search bar containing the text 'What do you want to learn?'. Below the header, there are navigation tabs for 'About', 'Outcomes', 'Modules', 'Recommendations', 'Testimonials', and 'Reviews'. The main content area is titled 'What you'll learn' and lists four learning objectives, each with a checkmark: 'What Python is and why Python is relevant to automation', 'How to write short Python scripts to perform automated actions', 'How to use the basic Python structures: strings, lists, and dictionaries', and 'How to create your own Python objects'. Below this, the 'Skills you'll gain' section features five tags: 'Basic Python Data Structures', 'Fundamental Programming Concepts', 'Basic Python Syntax', 'Python Programming', and 'Object-Oriented Programming (OOP)'. The 'Details to know' section includes icons for a shareable certificate, assessments, and language selection (English). The Windows taskbar is visible at the bottom of the screen.

For Individuals For Businesses For Universities For Governments

coursera Explore What do you want to learn?

About Outcomes Modules Recommendations Testimonials Reviews

What you'll learn

- ✓ What Python is and why Python is relevant to automation
- ✓ How to write short Python scripts to perform automated actions
- ✓ How to use the basic Python structures: strings, lists, and dictionaries
- ✓ How to create your own Python objects

Skills you'll gain

Basic Python Data Structures Fundamental Programming Concepts Basic Python Syntax Python Programming Object-Oriented Programming (OOP)

Details to know

Shareable certificate Assessments English

84_ Learn to build mobile games using unity3D (Eduonix Learning Solutions)

https://www.eduonix.com/courses/Mobile-Development/Learn-to-Build-Mobile-Games-using-Unity3D

Course Content

Section 1: Introduction

- 1 Introduction to the Unity3D
- 2 Introduction to Unity3D
- 3 Intro To Editor
- 4 Setting up the Scene/View
- 5 Components
- 6 Adding Components
- 7 Prefabs
- 8 Creating Assets
- 9 Scenes
- 10 Building

+ Section 2: Unity3D Primer

+ Section 3: Collision detection and Character Control in Unity 3D

+ Section 4: Unity 3D - Important Features

+ Section 5: Unity 3D - Advance Features

+ Section 6: Summary

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2019-20

86_Introduction To Fluid
Mechanics, NPTEL[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)[About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | [All Courses](#) | [SIGN-IN / REGISTER](#) ()[Courses \(https://swayam.gov.in/explorer\)](https://swayam.gov.in/explorer) >

Introduction To Fluid Mechanics

By Prof. Suman Chakraborty | IIT Kharagpur

Learners enrolled: 3568

Prof S Chak



This is an introductory course in Fluid Mechanics. The subject Fluid Mechanics has a wide scope and is of prime importance in several fields of engineering and science. Present course emphasizes the fundamental underlying fluid mechanical principles and application of those principles to solve real life problems. Special attention is given towards deriving all the governing equations starting from the fundamental principle. There is a well balanced coverage of physical concepts, mathematical operations along with examples and exercise problems of practical importance. After completion of the course, the students will have a strong fundamental understanding of the basic principles of Fluid Mechanics and will be able to apply the basic principles to analyze fluid mechanical systems.

INTENDED AUDIENCE : Interested students**PRE REQUISITES** : Basic knowledge of Mathematics**INDUSTRY SUPPORT** : Oil Companies (IOCL, SHELL, BPCL and others), Automobile and Aviation companies (GE, AIRBUS, TATA Motors and others)

Summary



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Course Status :	About Swayam (https://swayam.gov.in/about) All Courses ()
Course Type :	Core
Duration :	12 weeks
Category :	<ul style="list-style-type: none"> ◦ Mechanical Engineering ◦ Computational Thermo Fluids
Credit Points :	3
Level :	Undergraduate
Start Date :	24 Jan 2022
End Date :	15 Apr 2022
Enrollment Ends :	07 Feb 2022
Exam Date :	24 Apr 2022 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_me31%2Fpreview&title=Introduction%20To%20Fluid%20Mechanics%20-%20Course)

Course layout

Week 1: Introduction and Basic Principles

Week 2: Properties of Fluids

Week 3: Properties of Fluids and Fluid Statics

Week 4: Fluid Statics

Week 5: Fluid Kinematics (Part I)

Week 6: Fluid Kinematics (Part II)

Week 7: Dynamics of Inviscid Flows (Part I)

Week 8: Dynamics of Inviscid Flows (Part II)

Week 9: Integral Forms of Control Volume Conservation Equations (Part I)

Week 10: Integral Forms of Control Volume Conservation Equations (Part II)

Week 11: Integral Forms of Control Volume Conservation Equations (Part III); Dynamics of Viscous Flows (Part I)

Week 12: Dynamics of Viscous Flows (Part II)

Books and references

Nil

Instructor bio



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

About Swayam (<https://swayam.gov.in/about>) | All Courses |

()



Prof. Suman Chakraborty

IIT Kharagpur

Dr. Suman Chakraborty is currently a Professor in the Mechanical Engineering Department as well as an Institute Chair Professor of the Indian Institute of Technology Kharagpur, India, and the Head of the eSchool of Medical Science and Technology. He is also the Associate Dean for Sponsored Research and Industrial Consultancy. His current areas of research include microfluidics, nanofluidics, micro-nano scale transport, with particular focus on biomedical applications. He has been awarded the Santi Swaroop Bhatnagar Prize in the year 2013, which is the highest Scientific Award from the Government of India. He has been elected as a Fellow of the American Physical Society, Fellow of the Royal Society of Chemistry, Fellow of ASME, Fellow of all the Indian National Academies of Science and Engineering, recipient of the Indo-US Research Fellowship, Scopus Young Scientist Award for high citation of his research in scientific/technical Journals, and Young Scientist/Young Engineer Awards from various National Academies of Science and Engineering. He has also been an Alexander von Humboldt Fellow, and a visiting Professor at the Stanford University. He has 380+ Journal publications.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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Initiative by : Ministry of Education (Govt of India)

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Steam and Gas Power Systems

By Prof. Ravi Kumar | IIT Roorkee

Learners enrolled: 1777

Steam and gas power systems



This Course provides a simple understanding of the steam and gas power systems. The course contains the analysis of vapour power cycle i.e. Rankine cycle, steam generators and their accessories, Performance of Boilers and combustion of fuel, high pressure boilers, flow through steam and gas nozzles, different type of steam turbines for power generation and condensers. The gas turbine cycle, working of gas turbines, centrifugal compressors, axial compressors and combustion chamber of gas turbines.

INTENDED AUDIENCE :It is a core course for UG students of Mechanical Engineering.**PRE-REQUISITES** : Nil**INDUSTRY SUPPORT** :BHEL, NTPC and other private power industries

Summary

Course Status :

Completed



Course Type :	Core (https://swayam.gov.in/)	 (https://swayam.gov.in/)	 (https://swayam.gov.in/nc_details/NPTEL)
Duration :	8 weeks		
Category :	About Swayam (https://swayam.gov.in/about) All Courses	Mechanical Engineering	(0)
Credit Points :	2		
Level :	Undergraduate/Postgraduate		
Start Date :	15 Feb 2021		
End Date :	09 Apr 2021		
Enrollment Ends :	15 Feb 2021		
Exam Date :	25 Apr 2021 IST		

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

(/facebook)

(/twitter)

(/email)

(/linkedin)

(/whatsapp)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_me21%2Fpreview&title=Steam%20and%20Gas%20Power%20Systems%20-%20Course)

Course layout

Week-1 Review of Thermodynamics, Rankine Cycle, Performance of Rankine Cycle, Binary Vapour Cycle and Co-generation, Problem Solving.

Week-2 Steam Generators, Fire Tube Boilers, Water Tube Boilers, Boiler Mountings and Accessories, High Pressure Boilers- LaMont and Benson Boilers.

Week-3 High Pressure Boilers- Loeffler and Velox Boilers, Draught, Performance of Boilers, Combustion of Fuel, Problem Solving.

Week-4 Boiler Trial, Nozzles and Diffusers-Momentum and Continuity Equations, Nozzles and Diffusers-Efficiency and Critical Pressure, Nozzles and Diffusers-General Relationship and supersaturated Flow, Problem Solving.

Week-5 Steam Turbines, Compounding of Steam Turbines, Impulse Steam Turbines, Impulse Steam Turbine Performance, Problem Solving.



Week-6 Impulse-Reaction Steam Turbines, Impulse-Reaction Turbine Performance, Energy Losses in Steam Turbines, Condensers, Problem Solving.

Week-7 Gas Turbine Cycles, Gas Turbine Cycles- Performance Evaluation, Gas Turbine Cycles- Modifications, Problem Solving, Centrifugal Compressors.

Week-8 Centrifugal Compressor Characteristics, Axial Flow Compressors, Axial Flow Compressor Characteristics, Jet Propulsion, Problem Solving.

Books and references

- Basic Engineering Thermodynamics, Rayner Joel, AWL
- Roger Gordon & Yon Mayhew, Engineering Thermodynamics work and heat Transfer, Power Plant Engineering, P. K. Nag, TMGH

- Power Station Engineering, Skrotzki, GA Vopat, WA TMGH
- El-Wakil M.M., Power Plant Engineering (https://swayam.gov.in/)  (https://swayam.gov.in/nc_details/NPTEL)
- An Introduction to Energy Conversion (Vol. 3)-Turbomachinery, Kadambi, Prasad M., Willy
- Gas Turbine Theory, Cohen H, Rogers GFC, Saravanamuttoo, Lewis J, Rogers GFC (4th Ed)  (https://swayam.gov.in/about/AllCourses) ()

Instructor bio



Prof. Ravi Kumar

IIT Roorkee

Dr. Ravi Kumar is a Professor in the Department of Mechanical & Industrial Engineering, Indian Institute of Technology Roorkee. He has been teaching thermal engineering courses in the Department and is actively involved in the research related with Solar Energy. He is a member of ASME, ASHRAE and IIFIR.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **25 April 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Roorkee. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team





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Initiative by : Ministry of Education (Govt of India)



Vidyavardhini's College Of Engineering and Technology

Date: 11/01/2019

To
The Principal
VCET, Vasai (W)

Subject: Permission for starting new batch of German Language Course

Respected Sir,

Since last 3 years we have started German language course in our college.

We would like to start new batch from the beginning of this semester. The course consists of A1 German language syllabus.

The registration process will get start after getting permission from you.

The course will be conducted only on Monday 5.00 to 7.00 pm.(Only 1 day in a week) It will get adjusted according to holidays on Monday. The course will take approximately 52 hours.

The registration fees for this course is Rs.2500/- only.

Kindly do the needful.

Thanking You.

Yours faithfully,




Prof. Yogesh P. Pingle
German language Teacher

Expected Students	30 Students	40 Students	50 Students
Total Income	30*2500 = 75000/-	40*2500=100000/-	50*2500=125000/-
Remuneration@500Rs. Per Lecture * 52	26000/-	26000/-	26000/-
Book Cost @780Rs. Per Student	30*780=23400/-	40*780=31200/-	50*780=39000/-
Profit To College	25600/-	42800/-	60000/-

Surplus remitted to

* Last year Permission Letter and permission letter from management are enclosed.


Kindly permit as it is part of soft skills development


11/01/2019
HOD IT

As Varshali

Permitted



Registration Account.
Approved
The remuneration to be
paid as per resolution year.

14/01/19



Syllabus

Subject Code	Subject Name	Examination Scheme					
		Theory Marks		Term Work	Practical	Oral	Total
		Internal assessment	End Sem. Exam				
		Test I					
A1	German Language	20	40	20	--	20	100

Module – 1

(12Hr) CO1

1. Alphabets, Compound letters and their pronunciations
2. Practice pronunciations
3. Chapter 1 (Conversation)
4. Cases and Personal Pronoun, The Verb: Present Tense (Regular Verbs)
5. The Verb (Special Verbs) sein and haben
6. Chapter 2 (Conversation)
7. Possessive Pronoun, Demonstrative Pronoun and Reflexive pronoun
8. Numbers
9. Chapter 3 (Conversation)
10. Frage (Questions) pronouns: Wer (who) and Was (what)
11. Days, Months, Years
12. Myself, Our Family

Module – 2

(12Hr) CO2

1. Types of Verbs
 - a. Regular Verbs & Irregular Verbs
 - b. Transitive & Intransitive Verbs
 - c. Strong & Separable Verbs
 - d. Modal Verbs
2. Conjugation of Verbs
3. Chapter 4 (A Journey)
4. Nouns - Declination
5. Word Order – Sentence formation
6. Chapter 5 (A friend Comes)
7. Chapter 6 (2 Hours in Munchen)
8. Prepositions with Dative (Local and Temporal)



9. Prepositions with Accusative (Local and Temporal)
10. Timings

Module - 3

(14Hr)

CO3

1. Meals and Timings
2. Chapter 7 (Conversation)
3. Modal Verbs in detail
4. Chapter 8 (My House)
5. Prepositions with Dative or Accusative
6. Articles depending on action and / or position (wohin and wo)
7. Describe the picture
8. Chapter 9 (A journey)
9. Genitive Case
10. Past Tense (Imperfect)
11. Perfect Tense
12. Verb Conjugation Schemes (Present – Past – Perfect)

Module - 4

(14Hr)

CO4

1. Daily Routine (Morning till evening)
2. Letter writing
3. Adjective Declination
4. Ja-nein-doch (Different answers – yes, no)
5. Neben sentences (Composite sentences) – because, that
6. Relative Sentences
7. Colours, Vegetables, fruits
8. Internet / Computer Vocabulary
9. Email Writing
10. Writing Resume (Bio Data)

Text Books:

1. "Deutsche Sprachlehre für Ausländer", by Dora Schulz, Heinz Griesbach, Max Hueber Verlag
2. "Netzwerk Deutsch als Fremdsprache A1", by Helen Schmitz Stefanie Dengler, Paul Rusch, Langenscheidt; First Indian Edition 2015 edition (2015)

Online References:

1. https://www.youtube.com/channel/UCPK3Vd_cdMZ35q6DWE1KFSA
2. https://onlinecourses.nptel.ac.in/noc21_hs30/preview
3. https://onlinecourses.nptel.ac.in/noc19_hs50/preview



Vidyavardhini's College of Engineering & Technology
German Club (Established in 2016)

Assessment:

Internal Assessment for 20 marks:

Consisting of One Compulsory Class Test Approximately 40% to 50% of syllabus content must be covered in the test.

End Semester Examination:

End Semester Test consists of full syllabus.

Theory exam is of 40 M.

Term Work = 20 M which consists of at least 4 assignments, 4 quizzes.

Oral Exam = 20 M which consists of Dictation – 5 M, Listening Comprehension – 5 M, Reading Ability – 5 M, Oral – 5 M

Jogesh P. Pingle
Jogesh P. Pingle



INTEGRATED CIRCUITS, MOSFETS, OP-AMPS AND THEIR APPLICATIONS

PROF. HARDIK JEETENDRA PANDYA

Department of Electronic Systems Engineering
IISc Bangalore

TYPE OF COURSE : Rerun | Elective | UG/PG

COURSE DURATION : 12 weeks (24 Jan' 22 - 15 Apr' 22)

EXAM DATE : 23 Apr 2022

89_Integrated Circuits,
MOSFETs, OP-Amps and
their Applications, NPTEL

PRE-REQUISITES : B.Tech./B.E./M.Sc. and M.Tech./M.E.

INTENDED AUDIENCE : Engineering Students, Faculty from Engineering Colleges

COURSE OUTLINE :

This course is a design-oriented course aimed at understanding fabrication, parameters, and specifications of integrated circuits, MOSFETs, Op-Amps as well as their applications in the Analog domain. Below are some of the course outcomes:

- To understand and analyze the Op-Amps.
- The ability to understand the IC Technology and equipment used in fabrication.
- To understand feedback techniques and types of Noise.
- Ability to design amplifiers using Op-Amps.
- Ability to analyze and design filters using Op-Amps,
- To develop the skill to build and troubleshoot Analog circuits

ABOUT INSTRUCTOR :

Prof. Hardik J. Pandya is an assistant professor in the Department of Electronic Systems Engineering, Division of Electrical Sciences, IISc Bangalore where he is developing Advanced Microsystems and Biomedical Devices Facility for Clinical Research and Biomedical and Electronic (10-6-10-9) Engineering Systems Laboratory to carry out cutting-edge research on novel devices to solve unmet problems in biology and medicine. He is recipient of prestigious Early Career Research Award from Science and Engineering Research Board, Government of India as well as a start-up grant of 228 Lacs from IISc. He has taught Design for Analog Circuits, Analog Integrated Circuits, VLSI technology, and Semiconductor Devices to undergraduate and graduate students from Electronic Engineering, Instrumentation Engineering, and Applied Physics. He seeks to understand and exploit novel ways of fabricating microengineering devices using glass, silicon, polymers and integrate with unusual classes of micro/nanomaterials. His research interests include integrating biology/medicine with micro and nanotechnology to develop innovative tools to solve unmet clinical problems.

COURSE PLAN :

Week 1: Introduction to Integrated Circuit Technology

Week 2: Fabrication processes for Integrated Circuits

Week 3: Understanding Op-Amps

Week 4: CMRR of an Op-Amp and Offset voltages and currents

Week 5: SFETs Fabrication and Applications

Week 6: Frequency Response and Feedback techniques for Integrated Circuits

Week 7: Comparators, Instrumentation Amplifiers, Filters

Week 8: Oscillators

Week 9: MOSFETs Current Mirrors

Week 10: Noise, Op-Amp Circuits Analog to Digital Converter (ADC)

Week 11: Digital to Analog Converter (DAC) using Op-Amps

Week 12: Understanding the Datasheet of Op-Amps

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Integrated Circuits MOSFETs OP-Amps and their Applications

By Prof. Hardik Jeetendra Pandya | IISc Bangalore

Learners enrolled: 3842

Integrated Circuits, Mosfets, OP-Amps and their Applications



This course is a design-oriented course aimed at understanding fabrication, parameters, and specifications of integrated circuits MOSFETs, Op-Amps as well as their applications in the Analog domain. Below are some of the course outcomes.

- To understand and analyze the Op-Amps.
- The ability to understand the IC Technology and equipment used in fabrication.
- To understand feedback techniques and types of Noise.
- Ability to design amplifiers using Op-Amps.
- Ability to analyze and design filters using Op-Amps,
- To develop the skill to build and troubleshoot Analog circuits

INTENDED AUDIENCE : Engineering Students, Faculty from Engineering Colleges

PREREQUISITES : B.Tech./B.E./M.Sc. and M.Tech./M.E.

INDUSTRY SUPPORT : NIL



Summary

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Course Status :	About Swayam (https://swayam.gov.in/about) All Courses	0
Course Type :	Elective	
Duration :	12 weeks	
Category :	<ul style="list-style-type: none">Electrical, Electronics and Communications Engineering	
Credit Points :	3	
Level :	Undergraduate/Postgraduate	
Start Date :	27 Jan 2020	
End Date :	17 Apr 2020	
Enrollment Ends :	03 Feb 2020	
Exam Date :	25 Apr 2020 IST	

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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Course layout

- Week 1** : Introduction to Integrated Circuit Technology
- Week 2** : Fabrication processes for Integrated Circuits
- Week 3** : Understanding Op-Amps
- Week 4** : CMRR of an Op-Amp and Offset voltages and currents
- Week 5** : MOSFETs Fabrication and Applications
- Week 6** : Frequency Response and Feedback techniques for Integrated Circuits
- Week 7** : Comparators, Instrumentation Amplifiers, Filters
- Week 8** : Oscillators
- Week 9** : MOSFETs Current Mirrors
- Week 10** : Noise, Op-Amp Circuits Analog-to-Digital Converter (ADC)
- Week 11** : Digital-to-Analog Converter (DAC) using Op-Amps
- Week 12** : Understanding the Datasheet of Op-Amps



Books and re


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1. Gray, Hurst, Lewis, and Meyer, Analysis and Design of Analog Integrated Circuits, John Wiley & Sons, 5th edition, 2009
2. Horowitz and Hill, The Art of Electronics, Cambridge Univ. Press, 1999
3. Behzad Razavi, Design of Analog CMOS Integrated Circuits, McGraw-Hill, 2001
4. Phillip E. Allen and Douglas R. Holberg, CMOS Analog Circuit Design, Oxford University Press, 2nd edition, 2002
5. Johan H. Huijsing, Operational Amplifiers – Theory and Design, 3rd edition, Springer
6. Carusone, Johns, and Martin, Analog Integrated Circuit Design, 2nd edition, John Wiley, 2012
7. Razavi, Fundamentals of Microelectronics, John Wiley, 2008
8. Franco Maloberti, Analog Design for CMOS VLSI Systems, Kluwer Academic Publishers, 2001
9. Willy M.C. Sansen, Analog Design Essentials, Springer, 2007

Instructor bio



Prof. Hardik Jeetendra Pandya

IISc Bangalore

Biodata (Self Introduction): Dr. Hardik J. Pandya is an assistant professor in the Department of Electronic Systems Engineering, Division of Electrical Sciences, IISc Bangalore where he is developing Advanced Microsystems and Biomedical Devices Facility for Clinical Research and Biomedical and Electronic (10-6-10-9) Engineering Systems Laboratory to carry out cutting-edge research on novel devices to solve unmet problems in biology and medicine. He is recipient of prestigious Early Career Research Award from Science and Engineering Research Board, Government of India as well as a start-up grant of 228 Lacs from IISc. He has taught Design for Analog Circuits, Analog Integrated Circuits, VLSI technology, and Semiconductor Devices to undergraduate and graduate students from Electronic Engineering, Instrumentation Engineering, and Applied Physics. He seek to understand and exploit novel ways of fabricating microengineering devices using glass, silicon, polymers and integrate with unusual classes of micro/nanomaterials. His research interests include integrating biology/medicine with micro- and nanotechnology to develop innovative tools to solve unmet clinical problems. His current research focuses on flexible sensors for smart catheters, microsensors, microfluidic devices, and microelectromechanical systems, all lately with an emphasis on cancer diagnosis, therapeutics, e-nose, and biomedical device technologies. Before joining IISc, he worked as a postdoctoral scientist in the Department of Mechanical Engineering, Maryland Robotics Center, University of Maryland, College Park and in the Department of Medicine, Brigham and Women's Hospital–Harvard Medical School affiliated with Harvard-MIT Health Science and Technology. His work has resulted in several patents and publications. His work has been highlighted as "Breaking Research News" by The Physicians Committee for Responsible Medicine and has been featured on IEEE Transactions on Biomedical Engineering July 2016 issue cover image as well as IEEE TBME July 2016 feature article for the website and monthly highlights. The work on portable cancer diagnosis tool was also featured on Science Translational Medicine as an Editorial Choice, Breast Cancer Diagnosis, March 2016 and has been highlighted on CapeRay blog as "Biochips and Diagnostic tools" in April 2016. His work has been published in high-quality journals including Lab on a Chip, IEEE Transactions on Biomedical Engineering, IEEE Journal of Microelectromechanical Systems, Sensors and Actuators B, Biosensors and Bioelectronics, Nanoscience and Nanotechnology Letters, Sensors and Transducers, and Journal of Micromechanics and Micromachining.



Course certifi



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- The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres. [About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | [All Courses](#) |
- The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
- **Date and Time of Exams:** 25th April 2020, Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE:

- Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.
- Exam score = 75% of the proctored certification exam score out of 100
- Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$.

- If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.
- Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IISc Bangalore. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).
- Only the e-certificate will be made available. Hard copies will not be dispatched.



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Principles of Communication Systems - I

By Prof. Aditya K. Jagannatham | IIT Kanpur

Learners enrolled: 2375

Principles of Communication Systems -I - Introduction - Prof. Aditya K. Jagannatham



This course covers fundamental concepts of communication systems, which are essential for the understanding of advanced courses in digital/ wireless communication systems. Beginning with various basic tools such as Fourier Series/ Transform, the course will also cover several important modulation techniques such as Amplitude Modulation, Frequency Modulation, Phase Modulation etc. Sampling process and Quantization including Nyquist criterion and reconstruction of the original signal from the sampled signal will be dealt with in the later parts of the course. Further, the course will also cover concepts in probability and random variables/ processes and is designed to serve as a basic course towards introducing the students to various aspects of probability from the perspective of modern digital and wireless communications. Thus, it will focus on basic concepts in probability, random variables and random processes, while also illustrating digital/ wireless communication specific examples to better bridge the gap between theory and application.

This course is suitable for students and practicing engineers/ managers who are looking to enhance their knowledge of the fundamental principles underlying various systems as well as their preparation for competitive exams. (https://swayam.gov.in/)



INTENDED AUDIENCE : Intended audience is students, practicing engineers, technical and non-technical managers of telecom companies, students preparing for competitive exams with communication engineering subject

PRE-REQUISITES : Basic knowledge of Probability, Calculus

INDUSTRY SUPPORT : Most companies in wireless communications area should find this useful. Examples are Qualcomm, Broadcom, Intel etc.

Summary

Course Status :	Completed
Course Type :	Core
Duration :	12 weeks
Category :	<ul style="list-style-type: none">Electrical, Electronics and Communications Engineering
Credit Points :	3
Level :	Undergraduate
Start Date :	24 Jan 2022
End Date :	15 Apr 2022
Enrollment Ends :	07 Feb 2022
Exam Date :	24 Apr 2022 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

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JN

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_ee05%2Fpreview&title=Principles%20of%20Communication%20Systems%20%20-%20Course)

Course layout

- Week 1 :** Basic tools for communication, Fourier Series/Transform, Properties, Autocorrelation, Energy Spectral Density, Parsevals Relation
- Week 2 :** Amplitude Modulation (AM), Spectrum of AM, Envelope Detection, Power Efficiency, Modulation Index
- Week 3 :** Double Sideband Suppressed Carrier (DSB-SC) Modulation, Quadrature Carrier Multiplexing (QCM), Demodulation, Costas Receiver
- Week 4 :** Single Sideband Modulation (SSB), Hilbert Transform, Complex Pre-envelope/ Envelope, Demodulation of SSB, Vestigial Sideband Modulation (VSB)
- Week 5 :** Angle Modulation, Frequency Modulation (FM), Phase Modulation (PM), Modulation Index, Instantaneous Frequency
- Week 6 :** Spectrum of FM Signals, Carsons Rule for FM Bandwidth, Narrowband FM Generation, Wideband FM Generation via Indirect Method, FM



(<https://swayam.gov.in/>)



(<https://swayam.gov.in/courses/detail/NPTEL>)

Week 7: Introduction to Amplitude Modulation
Week 8: Quantization, Uniform Quantizers, Midrange and Midtread Quantization noise, Lloyd Max Quantization Algorithm, Non uniform Quantizers, Delta Modulation, Differential Pulse Code Modulation (DPCM)
Week 9: Basics of Probability, Conditional Probability, MAP Principle
Week 10: Random Variables, Probability Density Functions, Applications in Wireless Channels
Week 11: Basics of Random Processes, Wireless Fading Channel Modeling
Week 12: Gaussian Random Process, Noise, Bit-Error and Impact on Wireless Systems

Books and references

- Simon Haykin, Communications Systems, 4th Edition. John Wiley and Sons, Inc
- Fundamentals of Wireless Communication by David Tse

Instructor bio



Prof. Aditya K. Jagannatham

IIT Kanpur

Prof. Aditya K. Jagannatham (<http://home.iitk.ac.in/~adityaj/index.html>) received his Bachelors degree from the Indian Institute of Technology, Bombay and M.S. and Ph.D. degrees from the University of California, San Diego, U.S.A.. From April '07 to May '09 he was employed as a senior wireless systems engineer at Qualcomm Inc., San Diego, California, where he worked on developing 3G UMTS/WCDMA/HSDPA mobile chipsets as part of the Qualcomm CDMA technologies division. His research interests are in the area of next-generation wireless communications and networking, sensor and ad-hoc networks, digital video processing for wireless systems, wireless 3G/4G cellular standards and CDMA/OFDM/MIMO wireless technologies. He has contributed to the 802.11n high throughput wireless LAN standard and has published extensively in leading international journals and conferences. He was awarded the CAL(IT)2 fellowship for pursuing graduate studies at the University of California San Diego and in 2009 he received the Upendra Patel Achievement Award for his efforts towards developing HSDPA/HSUPA/HSPA+ WCDMA technologies at Qualcomm. Since 2009 he has been a faculty member in the Electrical Engineering department at IIT Kanpur, where he is currently an Associate Professor, and is also associated with the BSNL-IITK Telecom Center of Excellence (BITCOE). At IIT Kanpur he has been awarded the P.K. Kelkar Young Faculty Research Fellowship (June 2012 to May 2015) for excellence in research. His popular video lectures for the NPTEL (National Programme on Technology Enhanced Learning) course on Advanced 3G and 4G Wireless Mobile Communications can found at the following YouTube link (NPTEL 3G/4G (<https://www.youtube.com/playlist?list=PLBmVogVj5nJSi8FUsvglRxLtN1TN9y4nx>)).

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for :



Rupees one thousand only).

Date and Time of Exams:

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Registration url: Announcements will be made when the registration form is open for registrations.

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Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

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Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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Initiative by : Ministry of Education (Govt of India)



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Fuzzy Logic and Neural Networks

By f. Dilip Kumar Pratihar | IIT Kharagpur

Learners enrolled: 1988

Fuzzy Logic and Neural Networks



This course will start with a brief introduction to fuzzy sets. The differences between fuzzy sets and crisp sets will be identified. Various terms used in the fuzzy sets and the grammar of fuzzy sets will be discussed, in detail, with the help of some numerical examples. The working principles of two most popular applications of fuzzy sets, namely fuzzy reasoning and fuzzy clustering will be explained, and numerical examples will be solved. Fundamentals of neural networks and various learning methods will then be discussed. The principles of multi-layer feed forward neural network, radial basis function network, self-organizing map, counter-propagation neural network, recurrent neural network, deep learning neural network will be explained with appropriate numerical examples. The method of evolving optimized fuzzy reasoning tools, neural networks will be discussed with the help of some numerical examples. Two popular neuro-fuzzy systems will be explained and numerical examples will be solved. A summary of the course will be given at the end.

- Soft Computing: Fundamentals and Applications by D.K.Pratihar, Narosa Publishing House, New-Delhi, 2014
- Fuzzy Sets and Fuzzy Logic: Theory and Applications by George J. Klir, Bo Yuan, Prentice Hall, 1995
- Neural Networks: A Comprehensive Foundation by S. Haykin, Prentice Hall PTR Upper Saddle River, NJ, USA, 1994

Instructor bio



Prof. Dilip Kumar Pratihar

IIT Kharagpur

I received BE (Hons.) and M. Tech. from REC (NIT) Durgapur, India, in 1988 and 1994, respectively. I obtained my Ph.D. from IIT Kanpur, India, in 2000. I received University Gold Medal, A.M. Das Memorial Medal, Institution of Engineers' (I) Medal, and others. I completed my post-doctoral studies in Japan and then, in Germany under the Alexander von Humboldt Fellowship Programme. I received Shastri Fellowship (Indo-Canadian) in 2019 and INSA Teachers' Award 2020. I am working now as a Professor (HAG scale) of IIT Kharagpur, India. My research areas include robotics, soft computing and manufacturing science. I have published more than 275 papers and book-chapters. I have written the textbooks on "Soft Computing" and "Fundamentals of Robotics", co-authored another textbook on "Analytical Engineering Mechanics", edited a book on "Intelligent and Autonomous Systems", co-authored reference books on "Modeling and Analysis of Six-legged Robots"; "Modeling and Simulations of Robotics Systems Using Soft Computing"; "Modeling and Analysis of Laser Metal Forming Processes by Finite Element and Soft Computing Methods" and "Multibody Dynamic Modeling of Multi-legged Robots". My textbook on "Soft Computing" had been translated into Chinese language in 2009. I have guided 22 Ph.D.s. I am in editorial board of 10 International Journals. I have been elected as FIE, MASME and SMIEEE. I have completed a few sponsored (funded by DST, DAE, MHRD) and consultancy projects. I have filed two patents.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **25 April 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Founder President Late Padmashri H. G. Vartak

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PAT Centre

92_Soft Skills (GD and PI)
Training for TE (career
Launcher)

Date:14-10-2019

To,

The Principal,

VCET Vasai.

Subject: Request to permit CRT Aptitude Training Sessions for Third Year students graduating in June 2021.

Respected Sir,

Training & Placement Cell is planning to schedule CRT Aptitude Training session by Career Launcher for Academic Year 2019-20.

CRT Aptitude Training will assist students to prepare for Placement & Higher Studies entrance examination. Completion certificate will be awarded to students at the end of the training after assessing at regular intervals.

Attached herewith is the proposal including Syllabus for the training.

Kindly permit our request.

Thank You.


Best Regards,



Prof. Prafulla Patil,

Placement Manager

VCET Vasai

Approved


**APTITUDE AND SOFT SKILLS TRAINING
BY CAREER LAUNCHER**

Year 2019-20

The Campus selection process is a direct measure of the graduate outcomes and is an integral part of student's expectations from the Institutions. It is a process which facilitates placement of enrolled students and helps the transition from academics to the corporate world. The institutions are regularly trying to improve the process by getting more quality companies and better pay packages on board in a bid to re-affirm their quality nurturing of students.

Career Launcher (CL) is Asia's leading education service provider; and is led by a team of IIT-IIM alumni with a passion for excellence in education, Career Launcher has been focusing on shaping the lives & careers of students during the 25 years of its existence.

CL has developed an online platform known as Aspiration, which helps the students in the age bracket of 18-26 years in the development of their Aptitude, Personality and Career. This AI-enabled platform is accessible through the Internet Browsers from all devices (Desktop, Laptop, Tablet PC, Mobile, etc).

Career Launcher provide A customized solution to cater to students of different segment so that the objective of 100% graduation outcome is met.

According to Career Launcher

The graduate outcomes for an engineering student are as follows

1. Job Placements
2. Higher Studies

The objective is to provide a holistic solution to ensure that every single student, who has graduated in the minimum stipulated time, is able to achieve

Career Launcher has developed a comprehensive recruitment platform which aims to enhance the experience of candidates, professional institutions and the companies participating in the campus recruitment process. It provides a detailed insight of the personality of the candidates and provides a unique online scheduling and selection mechanism without the need of a direct face-to-face interaction. As a comprehensive recruitment solution it also ensures a wider reach and effectiveness in terms of outcomes and resource utilization.

Training and Placement cell had organized aptitude and soft skill training to VCET students through Career Launcher at college premises. Selection of Career Launcher as training partner is based on students' feedback on demo lecture of academy.

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

TRAINING MODULES OF CL EDUCATE LTD.

CRT/Soft Skills/Employability Skill Training	
Topics	
1.	Communications Skills
2.	Aptitude (QA/LR/VA) & GDPI Test Preparation
3.	Career Skills
4.	Managerial Skills
5.	Leadership Skills
6.	Team Skills
7.	Entrepreneurial Skills

TRAINING MODULE FOR VIDYAVARDINI COLLEGE OF ENGINEERING

60 hours Campus Recruitment Training Module			
Sections	Topics	No of hours	Section Total
Quantitative Ability	Numbers and Number System	3	21
	Linear Equation	1.5	
	Ratio, Proportion & Variation, Percentages, Profit and Loss, Partnership	3	
	Time and Work	3	
	Time Speed and Distance	3	
	Averages, Mixtures & Alligation/ SI, CI	3	
	Permutations and Combinations & probability	3	
	Data Interpretation	1.5	
Verbal Ability	Grammar Basics and Application to Placement Test	3	9
	Verbal Reasoning	3	
	Reading Comprehension	3	

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

	Coding, Clocks, Cubes Calendars	3	
	Mathematical Puzzles from Placement Tests	3	
	Binary Logic, Arrangements	3	
	Miscellaneous Puzzles from Placement Tests	3	
PHASE II: Group Discussion			
PHASE II: Personal Interview			
Online Assessment Test at the completion of Classroom training			

DELIVERY METHODOLOGY OF CAREER LAUNCHER

Class Materials: All classes pertaining to aptitude test training will be conducted with the support of handouts designed based on the requirements of Campus Recruitment Tests. The questions in the handouts will cover the range of learning requirements as well as types of questions encountered in Campus Recruitment Tests.

Pedagogy: As the goal of the training is to prepare students to face recruitment tests on their own, training will focus on students attaining the conceptual clarity required to do so. At the same time, since the requirement is that students eventually become capable of solving problems, concept teaching will be done through the discussion of the problems included in our class handouts and not through theoretical teaching of the concepts.

Each session will be devoted to the discussion of particular topics. The faculty member will discuss a number of questions pertaining to the topics for the session from the handouts. During the discussion of each question, the faculty member will go beyond the mere solving of problems and focus on.

- How to identify which concepts are applicable to that question.
- How to identify possibilities for applying insights from knowledge gathered till-date in formulating more effective and efficient solutions.
- Problem formulation and solving insights that may be generalised and applied to various problem solving situations that they may face in the future.

ONLINE TESTING MODULE

Since all the company based exams are online these days, we provide online module to the students.

CL offer chapter wise tests, full-length test, Company specific test, diagnostic test & assessment tests in the online modules given to the students.

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

Along with the classroom training, each student will have their own online login page for the online practice of mocks.

Test's in our Student Login Portal:

- 27 Sectional test(QA,LR,VA)
- 74 Full-length Test
- 20 Diagnostic and Assessment Test
- 20 Company-Specific Test

CL Provide 20 company-specific test's in the student login page.

College can pick any 5 companies from the below list, whose company-specific mock test which shall be incorporated in the student login page.

1. Capgemini
2. Cocubes
3. TCS
4. HCL
5. Hexaware
6. HP
7. IBM
8. Infosys
9. L & T
10. Wipro

In CRT training, CL provide the entire package to the student which includes:

1. Classroom session with CL assignments.
2. Classes would be a mix of concept teaching and problem-solving. Students will be encouraged to apply the concepts taught and solve the questions given to them. Soft Skills classes will be a mix of theory and practice sessions.
3. Student Login Portal: Inclusive of the online mocks.

In Year 2019-20 Career Launcher and Training and Placement Cell had provided all phases of aptitude and soft training for students. Students of all branches were attended these training sessions.



VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Founder President Late Padmashri H. G. Vartak

(Approved by AICTE and Affiliated to the University of Mumbai)

Four Branches Permanently Affiliated by University of Mumbai

K. T. Marg, Vasai Road (W), Dist. Palghar - 401 202, Maharashtra.

Tel.: 0250-2338234 (6 Line) • Email : vcet_inbox@vcet.edu.in • Website : www.vcet.edu.in

PAT Centre

Date:14-10-2019

To,

The Principal,

VCET Vasai.

Subject: Request to permit CRT Aptitude Training Sessions for Third Year students graduating in June 2021.

Respected Sir,

Training & Placement Cell is planning to schedule CRT Aptitude Training session by Career Launcher for Academic Year 2019-20.

CRT Aptitude Training will assist students to prepare for Placement & Higher Studies entrance examination. Completion certificate will be awarded to students at the end of the training after assessing at regular intervals.

Attached herewith is the proposal including Syllabus for the training.

Kindly permit our request.

Thank You.

Best Regards,

Prof. Prafulla Patil,

Placement Manager

VCET Vasai

Approved

93_Compertitive exams and aptitude training by career launcher

**APTITUDE AND SOFT SKILLS TRAINING
BY CAREER LAUNCHER**

Year 2019-20

The Campus selection process is a direct measure of the graduate outcomes and is an integral part of student's expectations from the Institutions. It is a process which facilitates placement of enrolled students and helps the transition from academics to the corporate world. The institutions are regularly trying to improve the process by getting more quality companies and better pay packages on board in a bid to re-affirm their quality nurturing of students.

Career Launcher (CL) is Asia's leading education service provider; and is led by a team of IIT-IIM alumni with a passion for excellence in education, Career Launcher has been focusing on shaping the lives & careers of students during the 25 years of its existence.

CL has developed an online platform known as Aspiration, which helps the students in the age bracket of 18-26 years in the development of their Aptitude, Personality and Career. This AI-enabled platform is accessible through the Internet Browsers from all devices (Desktop, Laptop, Tablet PC, Mobile, etc).

Career Launcher provide A customized solution to cater to students of different segment so that the objective of 100% graduation outcome is met.

According to Career Launcher

The graduate outcomes for an engineering student are as follows

1. Job Placements
2. Higher Studies

The objective is to provide a holistic solution to ensure that every single student, who has graduated in the minimum stipulated time, is able to achieve

Career Launcher has developed a comprehensive recruitment platform which aims to enhance the experience of candidates, professional institutions and the companies participating in the campus recruitment process. It provides a detailed insight of the personality of the candidates and provides a unique online scheduling and selection mechanism without the need of a direct face-to-face interaction. As a comprehensive recruitment solution it also ensures a wider reach and effectiveness in terms of outcomes and resource utilization.

Training and Placement cell had organized aptitude and soft skill training to VCET students through Career Launcher at college premises. Selection of Career Launcher as training partner is based on students' feedback on demo lecture of academy.

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

TRAINING MODULES OF CL EDUCATE LTD.

CRT/Soft Skills/Employability Skill Training	
Topics	
1.	Communications Skills
2.	Aptitude (QA/LR/VA) & GDPI Test Preparation
3.	Career Skills
4.	Managerial Skills
5.	Leadership Skills
6.	Team Skills
7.	Entrepreneurial Skills

TRAINING MODULE FOR VIDYAVARDINI COLLEGE OF ENGINEERING

60 hours Campus Recruitment Training Module			
Sections	Topics	No of hours	Section Total
Quantitative Ability	Numbers and Number System	3	21
	Linear Equation	1.5	
	Ratio, Proportion & Variation, Percentages, Profit and Loss, Partnership	3	
	Time and Work	3	
	Time Speed and Distance	3	
	Averages, Mixtures & Alligation/ SI, CI	3	
	Permutations and Combinations & probability	3	
	Data Interpretation	1.5	
Verbal Ability	Grammar Basics and Application to Placement Test	3	9
	Verbal Reasoning	3	
	Reading Comprehension	3	

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

	Coding, Clocks, Cubes Calendars	3	
	Mathematical Puzzles from Placement Tests	3	
	Binary Logic, Arrangements	3	
	Miscellaneous Puzzles from Placement Tests	3	
PHASE II: Group Discussion			
PHASE II: Personal Interview			
Online Assessment Test at the completion of Classroom training			

DELIVERY METHODOLOGY OF CAREER LAUNCHER

Class Materials: All classes pertaining to aptitude test training will be conducted with the support of handouts designed based on the requirements of Campus Recruitment Tests. The questions in the handouts will cover the range of learning requirements as well as types of questions encountered in Campus Recruitment Tests.

Pedagogy: As the goal of the training is to prepare students to face recruitment tests on their own, training will focus on students attaining the conceptual clarity required to do so. At the same time, since the requirement is that students eventually become capable of solving problems, concept teaching will be done through the discussion of the problems included in our class handouts and not through theoretical teaching of the concepts.

Each session will be devoted to the discussion of particular topics. The faculty member will discuss a number of questions pertaining to the topics for the session from the handouts. During the discussion of each question, the faculty member will go beyond the mere solving of problems and focus on.

- How to identify which concepts are applicable to that question.
- How to identify possibilities for applying insights from knowledge gathered till-date in formulating more effective and efficient solutions.
- Problem formulation and solving insights that may be generalised and applied to various problem solving situations that they may face in the future.

ONLINE TESTING MODULE

Since all the company based exams are online these days, we provide online module to the students.

CL offer chapter wise tests, full-length test, Company specific test, diagnostic test & assessment tests in the online modules given to the students.

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

Along with the classroom training, each student will have their own online login page for the online practice of mocks.

Test's in our Student Login Portal:

- 27 Sectional test(QA,LR,VA)
- 74 Full-length Test
- 20 Diagnostic and Assessment Test
- 20 Company-Specific Test

CL Provide 20 company-specific test's in the student login page.

College can pick any 5 companies from the below list, whose company-specific mock test which shall be incorporated in the student login page.

1. Capgemini
2. Cocubes
3. TCS
4. HCL
5. Hexaware
6. HP
7. IBM
8. Infosys
9. L & T
10. Wipro

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3. Student Login Portal: Inclusive of the online mocks.

In Year 2019-20 Career Launcher and Training and Placement Cell had provided all phases of aptitude and soft training for students. Students of all branches were attended these training sessions.

Competitive Exams and Aptitude Training for TE

By Career Launcher

Year 2019-20

SCHEDULE

Training and Placement cell had organized aptitude and soft skill training to VCET students through Career Launcher at college premises. Selection of Career Launcher as training partner is based on students' feedback on their demo lecture.

PHASE : I		
Content	Subject	Date
Quantitative Ability-Numbers and Number System	Quantative	6/1/2020
Quantitative Ability- Linear Equation		7/1/2020
Quantitative Ability- Ratio, proportion, variations, percentages, profit and loss, partnership		8/1/2020
Quantitative Ability- Time and Work		9/1/2020
Quantitative Ability- Time, speed and distance		10/1/2020
Quantitative Ability- averages, mixtures, alligations/ SI, CI		11/1/2020
Quantitative Ability- Permutations and Combinations		12/1/2020
Quantitative Ability- Data Interpretation		11/1/2020
Verbal Ability- Grammar Basics and Application to Placement Test		Verbal
Verbal Ability- Verbal reasoning	13/1/2020	
Verbal Ability- Reading Comprehension	14/1/2020	
Verbal Ability- Coding, clocks, cubes calendars	14/1/2020	
Miscellaneous puzzles from placement tests	15/1/2020	
PHASE : II		15-1-2020
Group Discussion		
Personal Interview		

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell


Prof. Sanket Patil

Training and Placement cell





Prof. Prafulla Patil

Training and Placement cell

Competitive Exams and Aptitude Training for TE

By Career Launcher

Year 2019-20

SCHEDULE

Training and Placement cell had organized aptitude and soft skill training to VCET students through Career Launcher at college premises. Selection of Career Launcher as training partner is based on students' feedback on their demo lecture.

PHASE : I		
Content	Subject	Date
Quant-Vedic math's	Mathematics	6/1/2020
Quant-Arithmetic		7/1/2020
Quant-Numbers		8/1/2020
Quant-Geometry		9/1/2020
Verbal-Reading Comprehension	English	10/1/2020
Verbal-Ability		11/1/2020
Logical Reasoning 1	Logical Reasoning	12/1/2020
Verbal-Reasoning		11/1/2020
Logical Reasoning 2(Puzzles)		12/1/2020
PHASE : II		
Essay Writing	Soft Skills	13/1/2020
Communication		13/1/2020
Group Discussion		14/1/2020
Resume /Personal Interview		14/1/2020
Personal Interview Individual (One to One by corporates)		15/1/2020

Content

Prof. Sanket Patil
Training and Placement cell



Prof. Prafulla Patil
Training and Placement cell


Soft Skills (GD and PI) Training for TE

By Career Launcher

Year 2019-20


SCHEDULE

Soft Skills		
Content	Subject	Date
Essay Writing	Soft Skills	22/7/2020 & 23/7/2020
Communication		27/7/2019 & 28/7/2020
Group Discussion		29/7/2020
Resume /Personal Interview		30/7/2020
Personal Interview Individual (One to One by corporates)		31/7/2020


Prof. Sanket Patil

Training and Placement cell



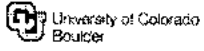

Prof. Prafulla Patil

Training and Placement cell



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94_Introduction to Deep Learning-Coursera



Introduction to Deep Learning

This course is part of [Machine Learning: Theory and Hands-on Practice with Python Specialization](#)

🗣️ Taught in English | [8 languages available](#) | Some content may not be translated

Instructor: [Geena Kim](#)

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Course
Gain insight into a topic and learn the fundamentals

3.6 ★ (14 reviews)

Intermediate level
Recommended experience ⓘ

60 hours (approximately)

Flexible schedule
Learn at your own pace

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What you'll learn

- ✓ Apply different optimization methods while training and explain different behavior.
- ✓ Use cloud tools and deep learning libraries to implement CNN architecture and train for image classification tasks.
- ✓ Apply deep learning package to sequential data, build models, train, and tune.

Skills you'll gain

Deep Learning Artificial Neural Network Convolutional Neural Network Unsupervised Deep Learning Recurrent Neural Network

Details to know



11/8/23, 7:40 AM

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Shareable certificate

Add to your LinkedIn profile



English

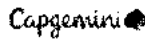
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Share it on social media and in your performance review

There are 5 modules in this course

Deep Learning is the go-to technique for many applications, from natural language processing to biomedical. Deep learning can handle many different types of data such as images, texts, voice/sound, graphs and so on. This course will cover the basics of DL including how to build and train multilayer perceptron, convolutional neural networks (CNNs), recurrent neural networks (RNNs), autoencoders (AE) and generative adversarial networks (GANs). The course includes several hands-on projects, including cancer detection with CNNs, RNNs on disaster tweets, and generating dog images with GANs.

Prior coding or scripting knowledge is required. We will be utilizing Python extensively throughout the course. We recommend taking the two previous courses in the specialization, Introduction to Machine Learning: Supervised Learning and Unsupervised Algorithms in Machine Learning, but they are not required. College-level math skills, including Calculus and Linear Algebra, are needed. Some parts of the class will be relatively math intensive.

This course can be taken for academic credit as part of CU Boulder's MS in Data Science or MS in Computer Science degrees offered on the Coursera platform. These fully accredited graduate degrees offer targeted courses, short 8-week sessions, and pay-as-you-go tuition. Admission is based on performance in three preliminary courses, not academic history. CU degrees on Coursera are ideal for recent graduates or working professionals. Learn more:

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MS in Computer Science: <https://coursera.org/degrees/ms-computer-science-boulder>

Course logo image by Ryan Wallace on Unsplash.

[Read more](#)



Deep Learning Introduction, Multilayer Perceptron

Module 1 • 9 hours to complete

Module details

Training Neural Networks

Module 2 • 8 hours to complete



Deep Learning on Images

Module 3 • 15 hours to complete



Deep Learning on Sequential Data

Module 4 • 13 hours to complete



Unsupervised Approaches in Deep Learning

Module 5 • 13 hours to complete



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Instructor

Instructor ratings  3.0 ★ (6 ratings)



Geena Kim

University of Colorado Boulder

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Unsupervised Algorithms in Machine Learning

Course



Coursera Project Network

DOM Updates with Javascript: Introduction to jQuery

Guided Project

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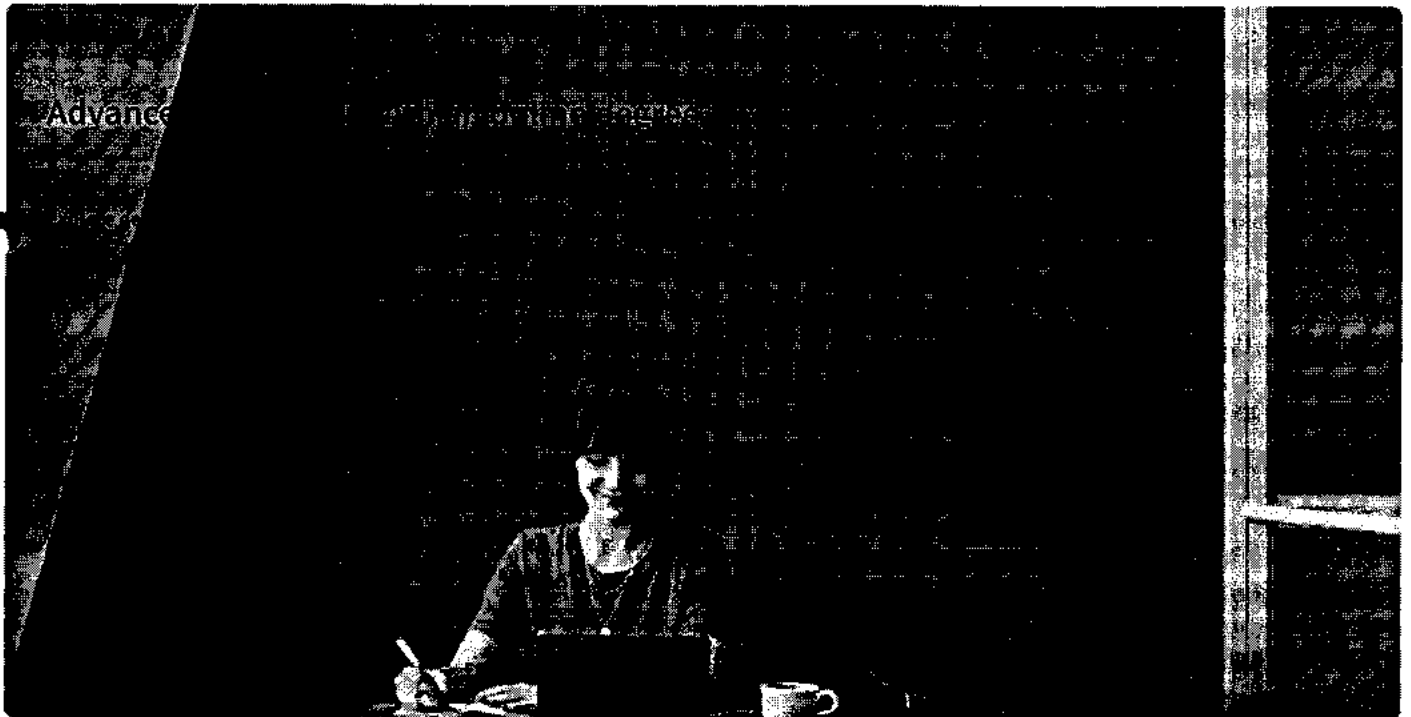
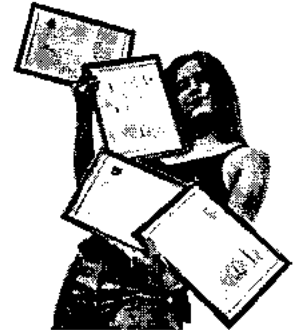
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95_Sequence Models-Coursera

DeepLearning.AI

Sequence Models

This course is part of [Deep Learning Specialization](#)

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Instructors: [Andrew Ng](#) +2 more

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Course

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4.8 ★ (29,617 reviews) | 👍 94%

Intermediate level

Recommended experience ⓘ

37 hours (approximately)

Flexible schedule

Learn at your own pace

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Skills you'll gain

Natural Language Processing

Long Short Term Memory (LSTM)

Gated Recurrent Unit (GRU)

Recurrent Neural Network

Attention Models

Details to know



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4 quizzes

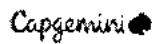
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Earn a career certificate

Add this credential to your LinkedIn profile, resume, or CV

Share it on social media and in your performance review

There are 4 modules in this course

In the fifth course of the Deep Learning Specialization, you will become familiar with sequence models and their exciting applications such as speech recognition, music synthesis, chatbots, machine translation, natural language processing (NLP), and more.

By the end, you will be able to build and train Recurrent Neural Networks (RNNs) and commonly-used variants such as GRUs and LSTMs; apply RNNs to Character-level Language Modeling; gain experience with natural language processing and Word Embeddings; and use HuggingFace tokenizers and transformer models to solve different NLP tasks such as NER and Question Answering.

The Deep Learning Specialization is a foundational program that will help you understand the capabilities, challenges, and consequences of deep learning and prepare you to participate in the development of leading-edge AI technology. It provides a pathway for you to take the definitive step in the world of AI by helping you gain the knowledge and skills to level up your career.

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Recurrent Neural Networks

Module 1 • 11 hours to complete

[Module details](#) ^

Discover recurrent neural networks, a type of model that performs extremely well on temporal data, and several of its variants, including LSTMs, GRUs and Bidirectional RNNs,

What's included

 12 videos
  4 readings
  1 quiz
  3 programming assignments
  1 app item

[> Show info about module content](#)





Natural Language Processing & Word Embeddings

Module 2 • 8 hours to complete

[Module details](#) ^

Natural language processing with deep learning is a powerful combination. Using word vector representations and embedding layers, train recurrent neural networks with outstanding performance across a wide variety of applications, including sentiment analysis, named entity recognition and neural machine translation.

What's included

 10 videos
  2 readings
  1 quiz
  2 programming assignments

[> Show info about module content](#)





Sequence Models & Attention Mechanism

Module 3 • 8 hours to complete

[Module details](#) ^

Augment your sequence models using an attention mechanism, an algorithm that helps your model decide where to focus its attention given a sequence of inputs. Then, explore speech recognition and how to deal with audio data.

What's included

 10 videos
  3 readings
  1 quiz
  2 programming assignments

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Transformer Network

Module 4 • 8 hours to complete


[Module details](#) ^

What's included

 5 videos
  6 readings
  1 quiz
  1 programming assignment
  3 ungraded labs

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★ 4.8 29,617 reviews

5 stars

83.68%

4 stars

13.02%

3 stars

2.57%

2 stars

0.47%

1 star

0.28%

GS

★ 5 · Reviewed on Apr 27, 2019

So many possibilities will be presented in front of you after this course. The only limit is the boundary of my imagination and creativity, that is how I feel now upon the completion of this course.

AC

★ 4 · Reviewed on Jun 24, 2019

Very well produced and explained. In my case, the nature of the Sequence Model makes understanding the concepts and finishing the assignment more challenging than other segments of the specialization.

WK

★ 5 · Reviewed on Mar 14, 2018

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I was really happy because I could learn deep learning from Andrew Ng.

The lectures were fantastic and amazing.

I was able to catch really important concepts of sequence models.

Thanks a lot!

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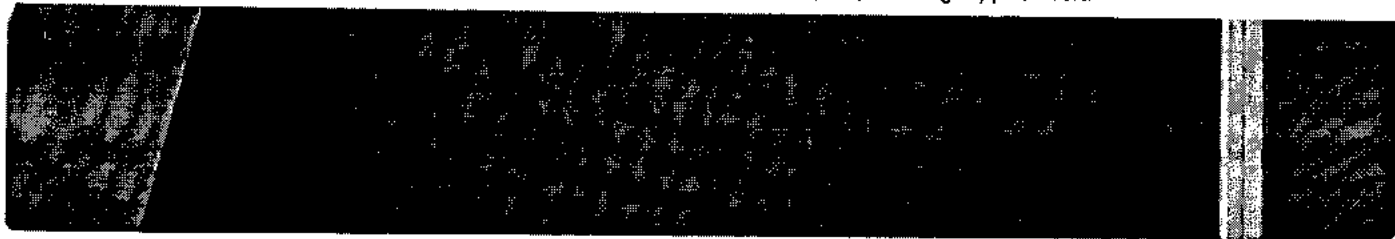
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96_Convolutional Neural Networks - Coursera

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DeepLearning.AI

Convolutional Neural Networks

This course is part of [Deep Learning Specialization](#)

🗨️ Taught in English | [8 languages available](#) | Some content may not be translated



Instructors: [Andrew Ng](#) +2 more

Top Instructor

Enroll for Free
Starts Nov 8

Financial aid available

7,451 already enrolled

Course

Gain insight into a topic and learn the fundamentals

4.9 ★ (41,772 reviews) | 👍 95%

Intermediate level

Recommended experience ⓘ

35 hours (approximately)

Flexible schedule

Learn at your own pace

[View course modules](#)

Skills you'll gain

- Deep Learning
- Facial Recognition System
- Convolutional Neural Network
- Tensorflow
- Object Detection and Segmentation

Details to know



Shareable certificate

Add to your LinkedIn profile



English

Subtitles: Kazakh, German, +20 more



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4 quizzes

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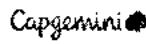
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- Develop job-relevant skills with hands-on projects
- Earn a shareable career certificate



Earn a career certificate

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Share it on social media and in your performance review

There are 4 modules in this course coursera

In the fourth course of the Deep Learning Specialization, you will understand how computer vision has evolved and become familiar with its exciting applications such as autonomous driving, face recognition, reading radiology images, and more.

By the end, you will be able to build a convolutional neural network, including recent variations such as residual networks; apply convolutional networks to visual detection and recognition tasks; and use neural style transfer to generate art and apply these algorithms to a variety of image, video, and other 2D or 3D data.

The Deep Learning Specialization is our foundational program that will help you understand the capabilities, challenges, and consequences of deep learning and prepare you to participate in the development of leading-edge AI technology. It provides a pathway for you to gain the knowledge and skills to apply machine learning to your work, level up your technical career, and take the definitive step in the world of AI.

[Read more](#)







Foundations of Convolutional Neural Networks

[Module details](#) 


Module 1 • 9 hours to complete

Implement the foundational layers of CNNs (pooling, convolutions) and stack them properly in a deep network to solve multi-class image classification problems.

What's included

  12 videos  5 readings  1 quiz  2 programming assignments  1 app item

✓ [Hide info about module content](#)

 12 videos • Total 139 minutes

Computer Vision • 5 minutes • [Preview module](#)

Edge Detection Example • 11 minutes

More Edge Detection • 7 minutes

Padding • 9 minutes

Strided Convolutions • 8 minutes

Convolutions Over Volume • 10 minutes

One Layer of a Convolutional Network • 16 minutes


Simple Convolutional Network Example • 8 minutes

 Pooling Layers • 10 minutes

CNN Example • 12 minutes

Why Convolutions? • 9 minutes

Yann LeCun Interview • 27 minutes

 5 readings • Total 9 minutes

Clarifications about Upcoming Simple Convolutional Network Example Video • 1 minute

Clarifications about Upcoming CNN Example Video • 1 minute

Clarifications about Upcoming Why Convolutions? • 1 minute

Lecture Notes W1 • 1 minute

(Optional) Downloading your Notebook, Downloading your Workspace and Refreshing your Workspace • 5 minutes

 1 quiz • Total 50 minutes


The Basics of ConvNets • 50 minutes

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 2 programming assignments • Total 360 minutes

Convolutional Model, Step by Step • 180 minutes

Convolution Model Application • 180 minutes

 1 app item • Total 10 minutes

[IMPORTANT] Have questions, issues or ideas? Join our Community! • 10 minutes





Deep Convolutional Models: Case Studies

[Module details](#) ^


Module 2 • 9 hours to complete

Discover some powerful practical tricks and methods used in deep CNNs, straight from the research papers, then apply transfer learning to your own deep CNN.

What's included

 14 videos  3 readings  1 quiz  2 programming assignments

▼ [Hide info about module content](#)

 14 videos • Total 127 minutes

Why look at case studies? • 2 minutes • [Preview module](#)

Classic Networks • 18 minutes

ResNets • 7 minutes

Why ResNets Work? • 9 minutes

Networks in Networks and 1x1 Convolutions • 6 minutes

Inception Network Motivation • 10 minutes

Inception Network • 8 minutes

MobileNet • 16 minutes

MobileNet Architecture • 8 minutes

EfficientNet • 3 minutes

Using Open-Source Implementation • 4 minutes

Transfer Learning • 8 minutes

Data Augmentation • 9 minutes

State of Computer Vision • 12 minutes

 3 readings • Total 3 minutes

Clarifications about Upcoming Inception Network Motivation Video • 1 minute

Lecture Notes W2 • 1 minute

Note on the Upcoming Programming Assignment - Residual Networks • 1 minute

 1 quiz • Total 50 minutes

Deep Convolutional Models • 50 minutes

 2 programming assignments • Total 360 minutes

COURSERA

Residual Networks • 180 minutes

Transfer Learning with MobileNet • 180 minutes

Object Detection

Module 3 • 8 hours to complete


Module details 

Apply your new knowledge of CNNs to one of the hottest (and most challenging!) fields in computer vision: object detection.

What's included

 14 videos  4 readings  1 quiz  2 programming assignments

▼ Hide info about module content

 14 videos • Total 110 minutes

Object Localization • 11 minutes • [Preview module](#)

 Landmark Detection • 5 minutes

Object Detection • 5 minutes

Convolutional Implementation of Sliding Windows • 11 minutes

Bounding Box Predictions • 14 minutes

Intersection Over Union • 4 minutes

Non-max Suppression • 8 minutes

Anchor Boxes • 9 minutes


YOLO Algorithm • 6 minutes


Region Proposals (Optional) • 6 minutes

Semantic Segmentation with U-Net • 7 minutes

Transpose Convolutions • 7 minutes

U-Net Architecture Intuition • 3 minutes

 U-Net Architecture • 7 minutes

 4 readings • Total 13 minutes

Clarifications about Upcoming Convolutional Implementation of Sliding Windows Video • 1 minute

Clarifications about Upcoming YOLO Algorithm Video • 1 minute

Lecture Notes W3 • 1 minute

Clear Output Before Submitting (For U-Net Assignment) • 10 minutes

 1 quiz • Total 50 minutes

Detection Algorithms • 50 minutes

 2 programming assignments • Total 360 minutes

Car detection with YOLO • 180 minutes

Image Segmentation with U-Net • 180 minutes





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Special Applications: Face recognition & Neural Style Transfer**Module details** ^


Module 4 • 8 hours to complete

Explore how CNNs can be applied to multiple fields, including art generation and face recognition, then implement your own algorithm to generate art and recognize faces!

What's included

 11 videos
  6 readings
  1 quiz
  2 programming assignments

 **Hide info about module content**

 **11 videos • Total 75 minutes**

What is Face Recognition? • 4 minutes • [Preview module](#)

One Shot Learning • 4 minutes

Siamese Network • 4 minutes

Triplet Loss • 15 minutes

Face Verification and Binary Classification • 6 minutes

What is Neural Style Transfer? • 2 minutes

What are deep ConvNets learning? • 7 minutes

Cost Function • 3 minutes

Content Cost Function • 3 minutes


Style Cost Function • 13 minutes

1D and 3D Generalizations • 9 minutes

 **6 readings • Total 25 minutes**

Clarifications about Upcoming Face Verification and Binary Classification Video • 1 minute

Clarifications about Upcoming Style Cost Function Video • 1 minute

 Lecture Notes W4 • 1 minute

[IMPORTANT] Reminder about end of access to Lab Notebooks • 2 minutes

References • 10 minutes

Acknowledgments • 10 minutes

 **1 quiz • Total 50 minutes**

Special Applications: Face Recognition & Neural Style Transfer • 50 minutes

 **2 programming assignments • Total 360 minutes**

Face Recognition • 180 minutes

Art Generation with Neural Style Transfer • 180 minutes

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Instructor ratings 4.9 (3,081 ratings)



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★ 4.9 41,772 reviews

5 stars	87.82%
4 stars	10.32%
3 stars	1.41%
2 stars	0.28%
1 star	0.17%



FH

★ 5 · Reviewed on Jan 12, 2019

Amazing! Feels like AI is getting tamed in my hands. Course lectures , assignments are excellent. To those who are not well versed with python - numpy and tensorflow , it would be better to brush up.

DD

★ 5 · Reviewed on Feb 7, 2020

very easy to understand and helped my understanding in Deep Learning-based computer vision. Yet, this course will need to be updated with new developments in the future (to catch up with the trend).

RK

★ 5 · Reviewed on Sep 2, 2019

This is very intensive and wonderful course on CNN. No other course in the MOOC world can be compared to this course's capability of simplifying complex concepts and visualizing them to get intuition.

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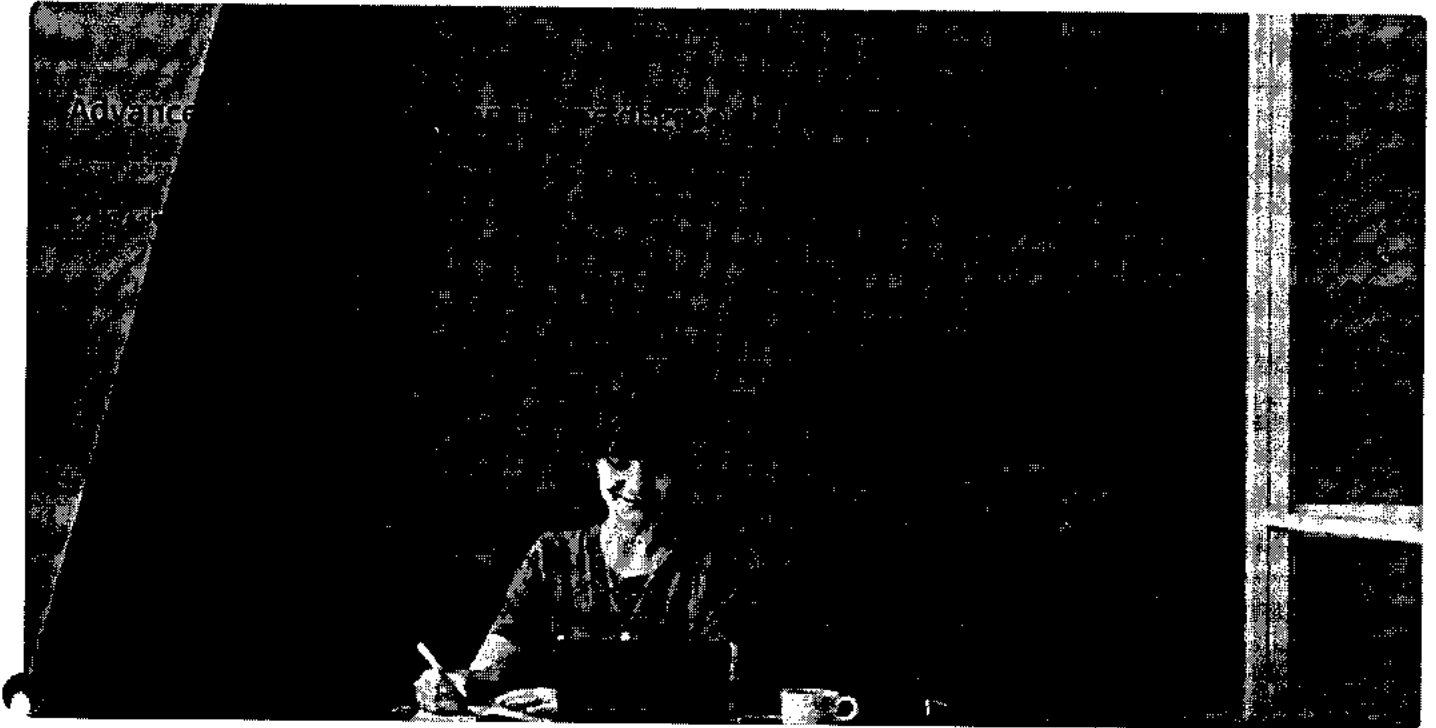
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97_Introduction to Data Science in Python-v



Introduction to Data Science in Python

This course is part of [Applied Data Science with Python Specialization](#)

Taught in English | [8 languages available](#) | Some content may not be translated



Instructor: [Christopher Brooks](#)

Enroll for Free
Starts Nov 8

Financial aid available

756,519 already enrolled

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Course

Gain insight into a topic and learn the fundamentals

4.5 ★ (26,801 reviews) | 92%

Intermediate level

No previous experience necessary

34 hours (approximately)

Flexible schedule

Learn at your own pace

Prepare for a degree

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[View course modules](#)

What you'll learn

- ✓ Understand techniques such as lambdas and manipulating csv files
- ✓ Describe common Python functionality and features used for data science
- ✓ Query DataFrame structures for cleaning and processing
- ✓ Explain distributions, sampling, and t-tests

Skills you'll gain

Python Programming Numpy Pandas Data Cleansing

Details to know



Shareable certificate

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Assessments

4 quizzes

English

Subtitles: Kazakh, German, +21 more

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This course is part of the Applied Data Science with Python Specialization. When you enroll in this course, you'll also be enrolled in this Specialization.

- Learn new concepts from industry experts
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- Earn a shareable career certificate



Earn a career certificate

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There are 4 modules in this course coursera

This course will introduce the learner to the basics of the python programming environment, including fundamental python programming techniques such as lambdas, reading and manipulating csv files, and the numpy library. The course will introduce data manipulation and cleaning techniques using the popular python pandas data science library and introduce the abstraction of the Series and DataFrame as the central data structures for data analysis, along with tutorials on how to use functions such as groupby, merge, and pivot tables effectively. By the end of this course, students will be able to take tabular data, clean it, manipulate it, and run basic inferential statistical analyses.

This course should be taken before any of the other Applied Data Science with Python courses: Applied Plotting, Charting & Data Representation in Python, Applied Machine Learning in Python, Applied Text Mining in Python, Applied Social Network Analysis in Python.

[Read more](#)







Fundamentals of Data Manipulation with Python

Module 1 • 13 hours to complete

[Module details](#) ^

In this week you'll get an introduction to the field of data science, review common Python functionality and features which data scientists use, and be introduced to the Coursera Jupyter Notebook for the lectures. All of the course information on grading, prerequisites, and expectations are on the course syllabus, and you can find more information about the Jupyter Notebooks on our Course Resources page.

What's included

 12 videos  6 readings  1 quiz  1 programming assignment  2 ungraded labs  1 plugin

[Show info about module content](#)

Basic Data Processing with Pandas

Module 2 • 6 hours to complete

[Module details](#) ^

In this week of the course you'll learn the fundamentals of one of the most important toolkits Python has for data cleaning and processing -- pandas. You'll learn how to read in data into DataFrame structures, how to query these structures, and the details about such structures are indexed.

What's included

 9 videos  1 reading  1 quiz  1 programming assignment  1 ungraded lab

[Show info about module content](#)

More Data Processing with Pandas

Module 3 • 7 hours to complete

[Module details](#) ^

In this week you'll deepen your understanding of the python pandas library by learning how to merge DataFrames, generate summary tables, group data into logical pieces, and manipulate dates. We'll also refresh your understanding of scales of data, and discuss issues with creating metrics for analysis. The week ends with a more significant programming assignment.

What's included

 6 videos  1 reading  1 quiz  1 programming assignment  1 ungraded lab

[Show info about module content](#)

Answering Questions with Messy Data

Module 4 • 6 hours to complete

[Module details](#) ^

In this week of the course you'll be introduced to a variety of statistical techniques such as distributions, sampling and t-tests. The week ends with two discussions of science and the rise of the fourth paradigm -- data driven discovery.

What's included

 2 videos  6 readings  1 quiz  1 programming assignment  1 ungraded lab

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Instructor

Instructor ratings **4.4** ★ (3,792 ratings)



Christopher Brooks

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"I directly applied the concepts and skills I learned from my courses to an exciting new project at work."



★ **4.5**

26,801 reviews

5 stars

4 stars

66.28%

24.37%

3 stars	coursera	5.39%
2 stars		1.91%
1 star		2.04%

SI

★ 5 · Reviewed on Mar 16, 2018

overall the good introductory course of python for data science but i feel it should have covered the basics in more details .specially for the ones who do not have any prior programming background .

NF

★ 5 · Reviewed on Jun 18, 2018

I thought this was course was good, and was fairly challenging for an online-only course. I thought the lectures could have been a little longer to ensure proper coverage of materials and functions.

VT

★ 4 · Reviewed on Jul 2, 2020

Assignments are tough compared to the course lecture material. Therefore, alot of self learning is required other than the lectures. There should be more study material covered in the course videos

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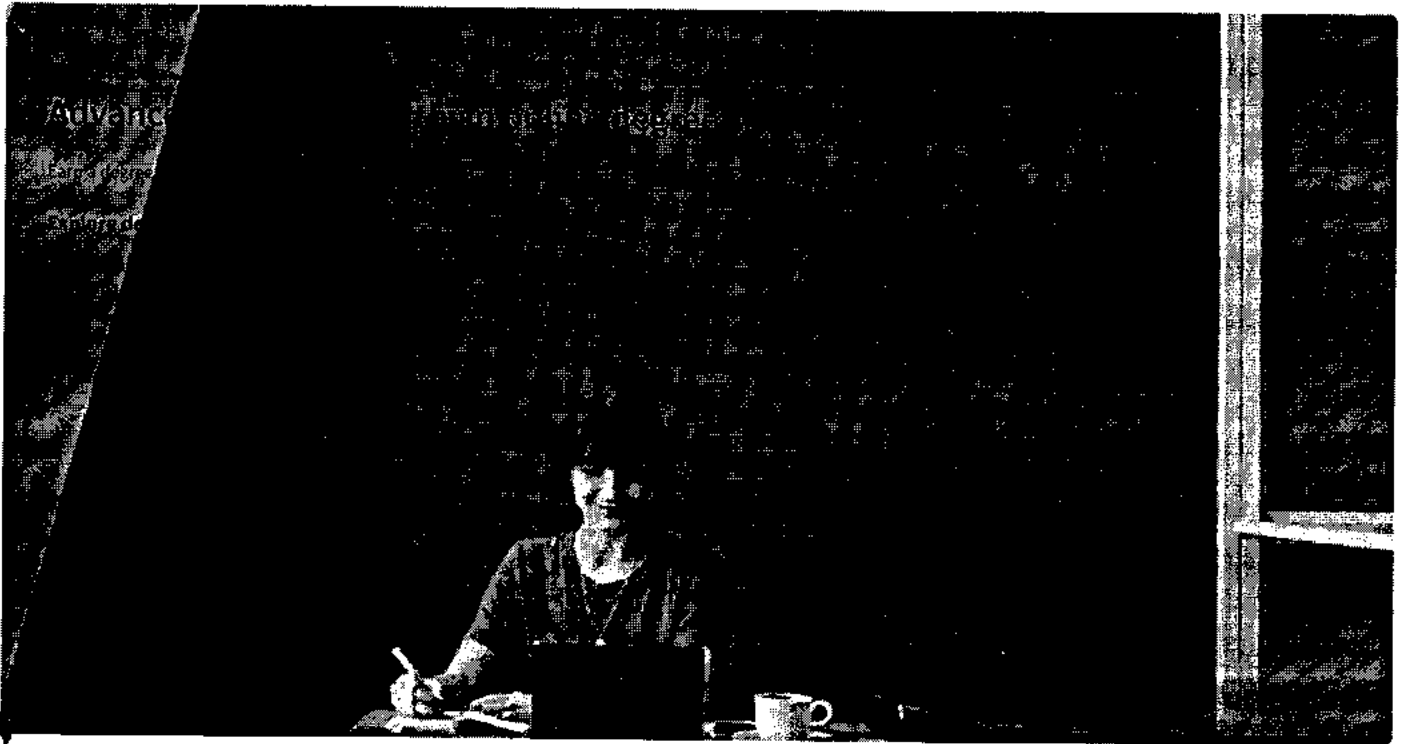
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11/8/23, 7:45 AM

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4.5 ★ (3,021 reviews) | 👍 94%

Beginner level

No previous experience necessary

38 hours (approximately)

Flexible schedule

Learn at your own pace

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Skills you'll gain

[Logic Programming](#) [Android Studio](#) [Java Programming](#) [Object-Oriented Programming \(OOP\)](#)

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English

Subtitles: Kazakh, German, +20 more



Assessments

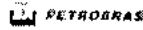
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This course is part of the **Android App Development Specialization**
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Add this credential to your LinkedIn profile, resume, or CV
Share it on social media and in your performance review

There are 8 modules in this course coursera

This MOOC teaches you how to program core features and classes from the Java programming language that are used in Android, which is the dominant platform for developing and deploying mobile device apps.

In particular, this MOOC covers key Java programming language features that control the flow of execution through an app (such as Java's various looping constructs and conditional statements), enable access to structured data (such as Java's built-in arrays and common classes in the Java Collections Framework, such as ArrayList and HashMap), group related operations and data into classes and interfaces (such as Java's primitive and user-defined types, fields, methods, generic parameters, and exceptions), customize the behavior of existing classes via inheritance and polymorphism (such as subclassing and overriding virtual methods). Learners will apply these Java features in the context of core Android components (such as Activities and basic UI elements) by applying common tools (such as Android Studio) needed to develop Java programs and useful Android apps.

Learners will work on several hands-on projects throughout the MOOC, i.e., each week will require learners to write solutions to programming assignments that reinforce the material covered in the lecture videos. There will be roughly 4-6 hours of student engagement time per week, including video lectures, quizzes, and programming assignments.

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Module 1 • 1 hour to complete

Module 2: Introduction to Android Studio

Module 2 • 1 hour to complete

Module 3: Writing a Simple Android App Using Basic Java Features

Module 3 • 3 hours to complete

Module 4: Control Flow

Module 4 • 6 hours to complete

Module 5: Structured Data

Module 5 • 5 hours to complete

Module 6: Classes and Interfaces

Module 6 • 9 hours to complete

Module 7: Inheritance and Polymorphism

Module 7 • 7 hours to complete

Module 8: Android Calculator App Mini-Project Assignment

Module 8 • 2 hours to complete

Instructors

Instructor ratings  **4.7** ★ (516 ratings)



Dr. Jerry Roth

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Learner since 2020

"I directly applied the concepts and skills I learned from my courses to an exciting new project at work."



★ **4.5** 3,021 reviews

5 stars	69.81%
4 stars	20.72%
3 stars	4.53%
2 stars	1.85%
1 star	3.07%

SV

★ 5 · Reviewed on Jun 28, 2018

Excellent !! As a beginner I found this course a major kick-start to building a strong base for my Android app skills. A lot of practice needed though, but these videos would keep me going well

AC

★ 4 · Reviewed on Dec 28, 2020

I would have liked there were more code exercises in videos, as we can practice at same time of the instructor, and study and understand each piece of code. But it's a fantastic course!

DJ

★ 5 · Reviewed on Jan 25, 2021

As someone who is new to java, the detailed explanation with examples really helped me understand how java works. Absolutely good for beginners who are also new to coding.

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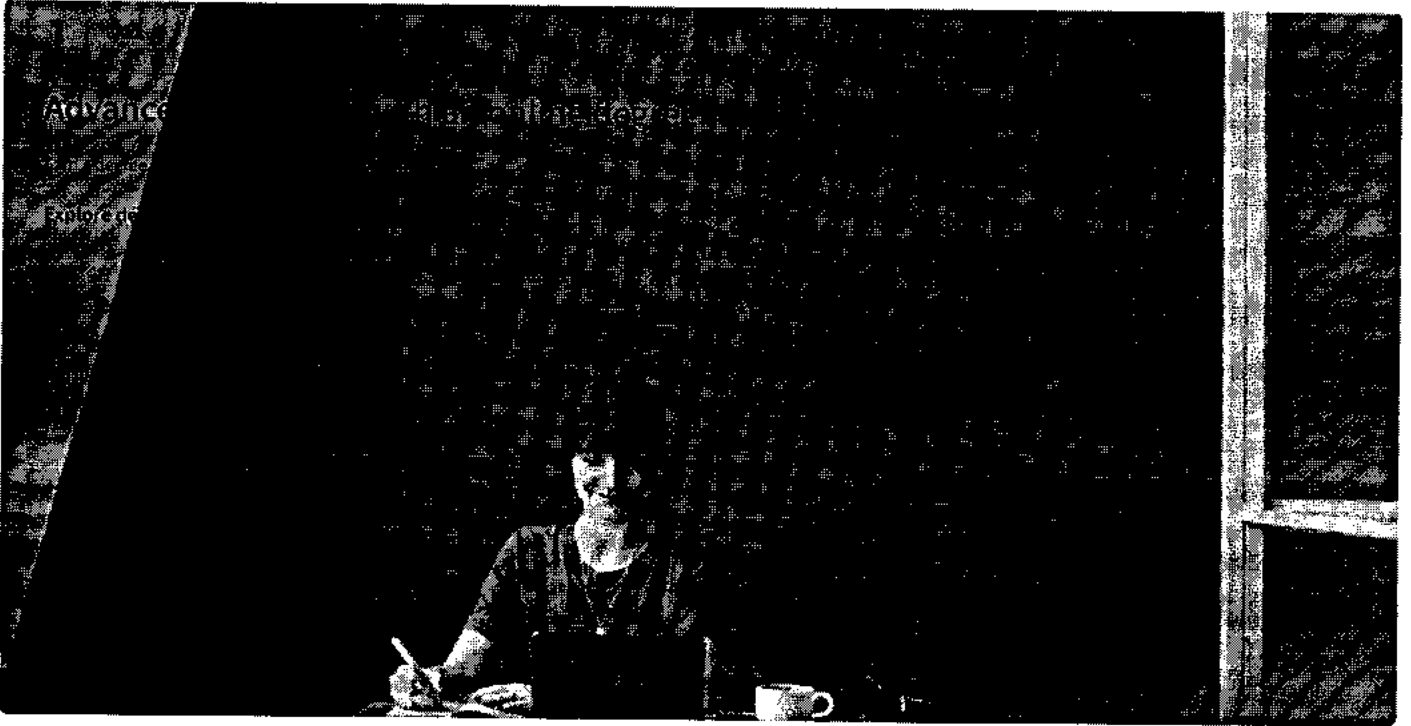
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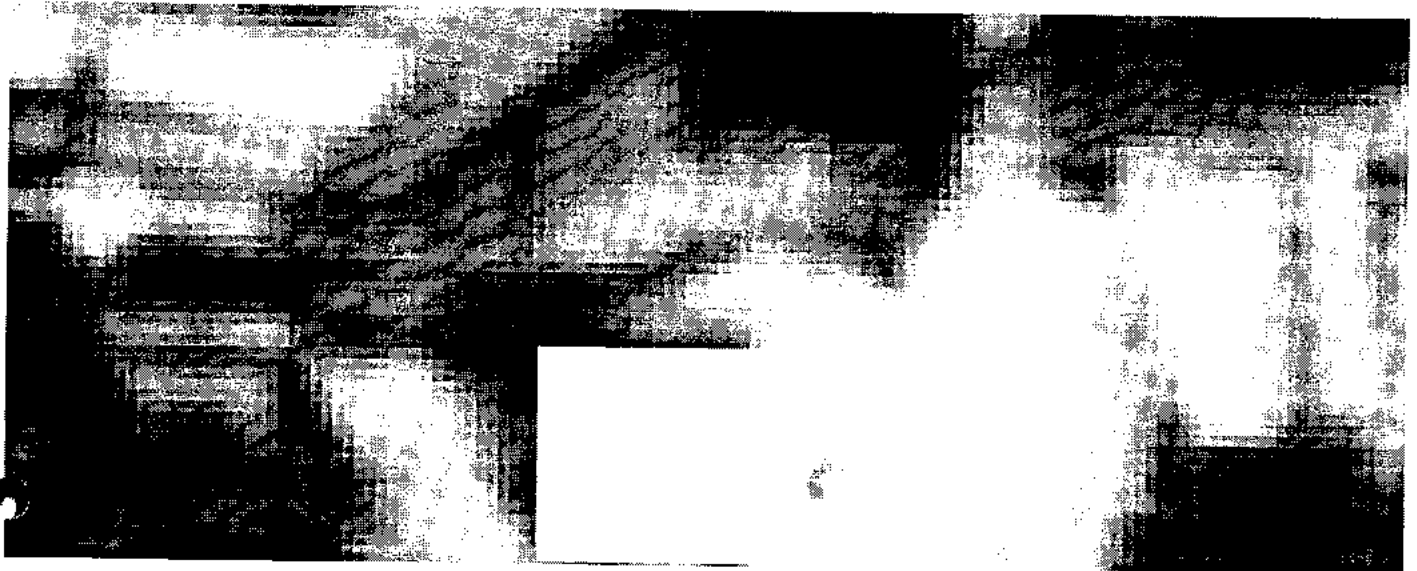
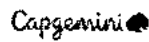
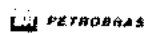


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This specialization is intended for anyone who seeks to develop one of the most critical and fundamental digital skills today. Spreadsheet software remains one of the most ubiquitous pieces of software used in workplaces across the world. Learning to confidently operate this software means adding a highly valuable asset to your employability portfolio. In the United States alone, millions of job advertisements requiring Excel skills are posted every day. [Research by Burning Glass Technologies and Capital One](#)  shows that digital skills lead to higher income and better employment opportunities. At a time when digital skills jobs are growing much faster than non-digital jobs, completing this specialization will position you way ahead of others.

In this Specialization, learners develop advanced Excel Skills for Business. Upon completing the four courses in this Specialization, learners can design sophisticated spreadsheets, including professional dashboards, and perform complex calculations using advanced Excel features and techniques. Learners have acquired the skills to manage large datasets efficiently, extract meaningful information from datasets, present data and extract information effectively. In addition, learners have mastered the skills needed to validate data and prevent errors in spreadsheets, create automation, apply advanced formulas and conditional logic to help make decisions and create spreadsheets that help forecast and model data.

Applied Learning Project

The best way to learn Excel is to use Excel. In this specialization, learners will solve a broad range of business problems as they apply the Excel skills and techniques they learn along the way. This specialization uses downloadable Excel workbooks and full data sets with applied examples and practical challenge exercises. This provides learners with countless opportunities to practice their Excel skills while discovering new and useful productivity features of Excel for a variety of business contexts.

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Excel Skills for Business: Essentials

Course 1 • 26 hours • 4.9 ★ (47,514 ratings)



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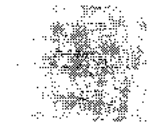
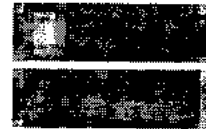
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New course modules

Skills you'll gain

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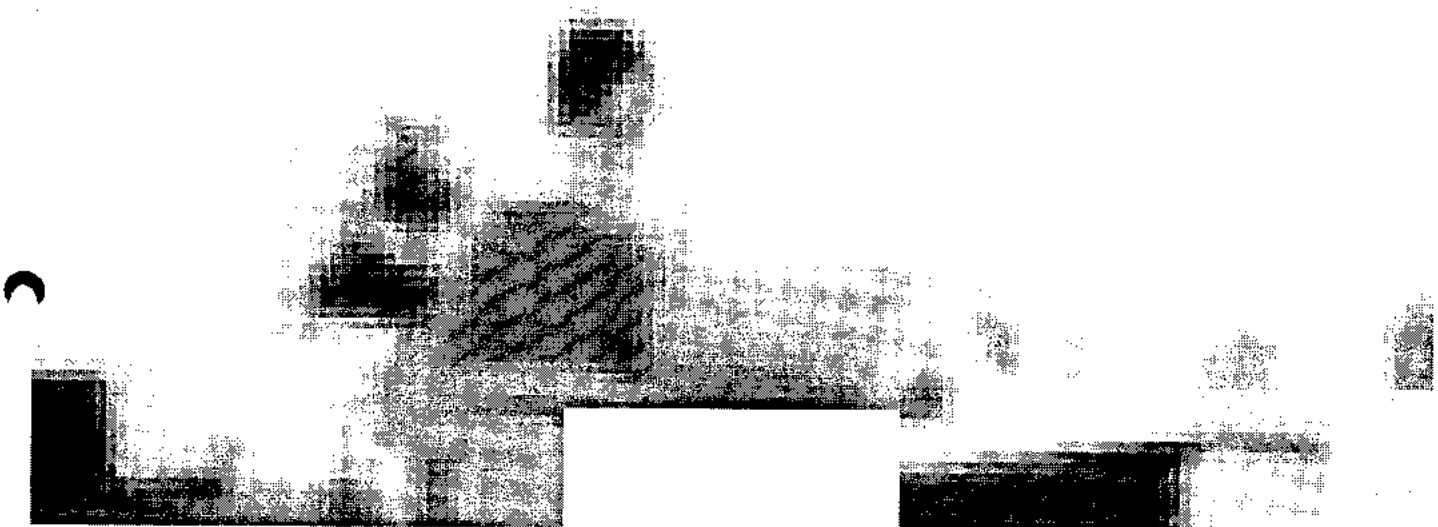
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By the end of this course you'll be able to:

- navigate the Windows and Linux filesystems using a graphical user interface and command line interpreter
- set up users, groups, and permissions for account access
- install, configure, and remove software on the Windows and Linux operating systems
- configure disk partitions and filesystems
- understand how system processes work and how to manage them
- work with system logs and remote connection tools
- utilize operating system knowledge to troubleshoot common issues in an IT Support Specialist role

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Navigating the System

Module 1 • 5 hours to complete





Users and Permissions

Module 2 • 4 hours to complete



Package and Software Management

Module 3 • 6 hours to complete



Filesystems

Module 4 • 5 hours to complete



Process Management

Module 5 • 5 hours to complete



Operating Systems in Practice

Module 6 • 5 hours to complete



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★ 4.7 26,395 reviews

5 stars	77.18%
4 stars	16.99%
3 stars	3.74%
2 stars	1.01%
1 star	1.29%



VJ
★ 5 · Reviewed on Jul 5, 2020

Well , quite wonderful ! Windows ws abit tougher than the linux . some command syntax are long which require much practice .

Thank you so much Cindy and all your hard work pays off . Cheers !!!!

BV
★ 4 · Reviewed on Jun 4, 2018

Should of separate the lessons in a way where it compliments one another. Windows by itself and Linux by itself instead of mixing it one after another (Windows then Linux). But either way, good videos

WS
★ 5 · Reviewed on Jul 25, 2018

It's a great pleasure to learn how to deal with Operating systems with GUI, Powershell, and Linux. This course is definitely useful for those who wish to become a power user in operating systems.



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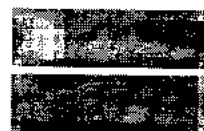
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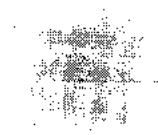
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Beginner level

No previous experience necessary

31 hours (approximately)

Flexible schedule

Learn at your own pace



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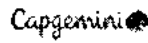
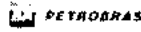
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There are 7 modules in this course coursera

This course covers a wide variety of IT security concepts, tools, and best practices. It introduces threats and attacks and the many ways they can show up. We'll give you some background of encryption algorithms and how they're used to safeguard data. Then, we'll dive into the three A's of information security: authentication, authorization, and accounting. We'll also cover network security solutions, ranging from firewalls to Wifi encryption options. The course is rounded out by putting all these elements together into a multi-layered, in-depth security architecture, followed by recommendations on how to integrate a culture of security into your organization or team.

At the end of this course, you'll understand:

- how various encryption algorithms and techniques work as well as their benefits and limitations.
- various authentication systems and types.
- the difference between authentication and authorization.
- how to evaluate potential risks and recommend ways to reduce risk.
- best practices for securing a network.
- how to help others to grasp security concepts and protect themselves.

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Module 1 • 4 hours to complete



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Module 2 • 5 hours to complete



The 3 A's of Cybersecurity: Authentication, Authorization, Accounting

Module 3 • 3 hours to complete



Securing Your Networks

Module 4 • 4 hours to complete



Defense in Depth

Module 5 • 2 hours to complete



Creating a Company Culture for Security

Module 6 • 5 hours to complete



Prepare for Jobs in IT Support

Module 7 • 5 hours to complete



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Instructor ratings 4.8 ★ (4,722 ratings)



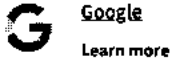
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★ 4.8 20,828 reviews



SG


★ 5 · Reviewed on Nov 25, 2021

An absolutely engaging and challenging feat that I am so proud to have completed. I hope this opens new door and better job opportunities so that I can better enhance my future. Thank you Google

D5

★ 5 · Reviewed on Apr 26, 2018

Great course that is full of useful information and presented in an easy to understand way. It's an awesome beginner course that will add to your knowledge and further your knowledge of IT security.

 5 · Reviewed on Sep 28, 2019

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Fue muy interesante eme encanto, pude aprender muchas cosas que no sabia y todo esto va ser muy util para todos los trabajos que encuentre de ahora en adelante, gracias cousera. Gracias Google

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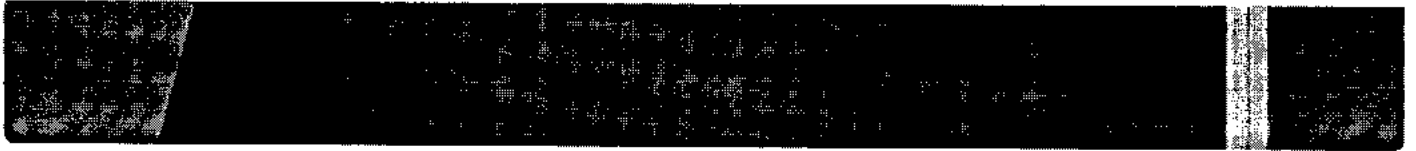


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▶ Introduction ▾	Preview	02:56
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▶ Java Collection- Part-1	▼	57:44
▶ Java Collection- Part-2	▼	58:16
▶ Java Collection- Part-3	▼	53:15
▶ Java Collection- Part-4	▼	43:29
▶ Immutable Class	▼	01:06:28
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▼ JUNIT for Unit Testing		1 lecture • 1hr 7min
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- Wrapper Classes
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- If else condition
- If else if condition (nested if)
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- Overriding
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- public
- private
- protected

Package

- What is package?
- How to create a package?
- How to import package into a different class?

Collection

- List
- ArrayList
- LinkedList
- Set
- HashSet
- TreeSet
- LinkedHashSet
- Map
- HashMap
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Exception Handling

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- Using Breakpoints
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Introduction to J2EE

- What is J2EE
- What's diff b/w Website vs Webservice
- What's diff b/w Webserver vs Application server
- What's client and Server
- How client request process

Creation of First Website

- Why website?
- Installation and configuration of Apache tomcat
- Create first web application using JSP

Maven

- Creating Maven project
- Creating build file
- Running the build
- Dependencies Management

JUNIT

- Introduction to Unit Testing
- How to configure JUnit in Eclipse
- Why JUNIT
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SOAP Web Service

- What is SOAP
- What is SOA

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- Why SpringBoot
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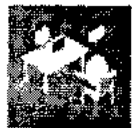
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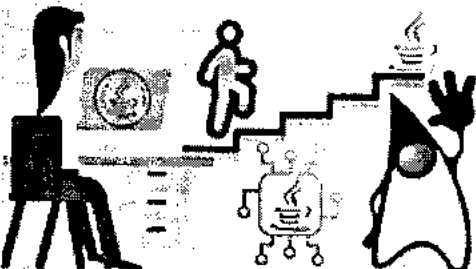
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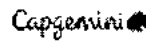
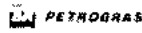
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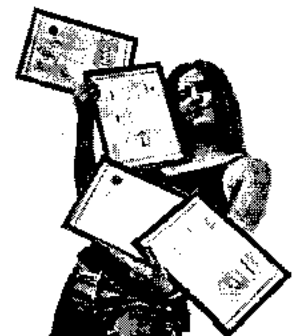
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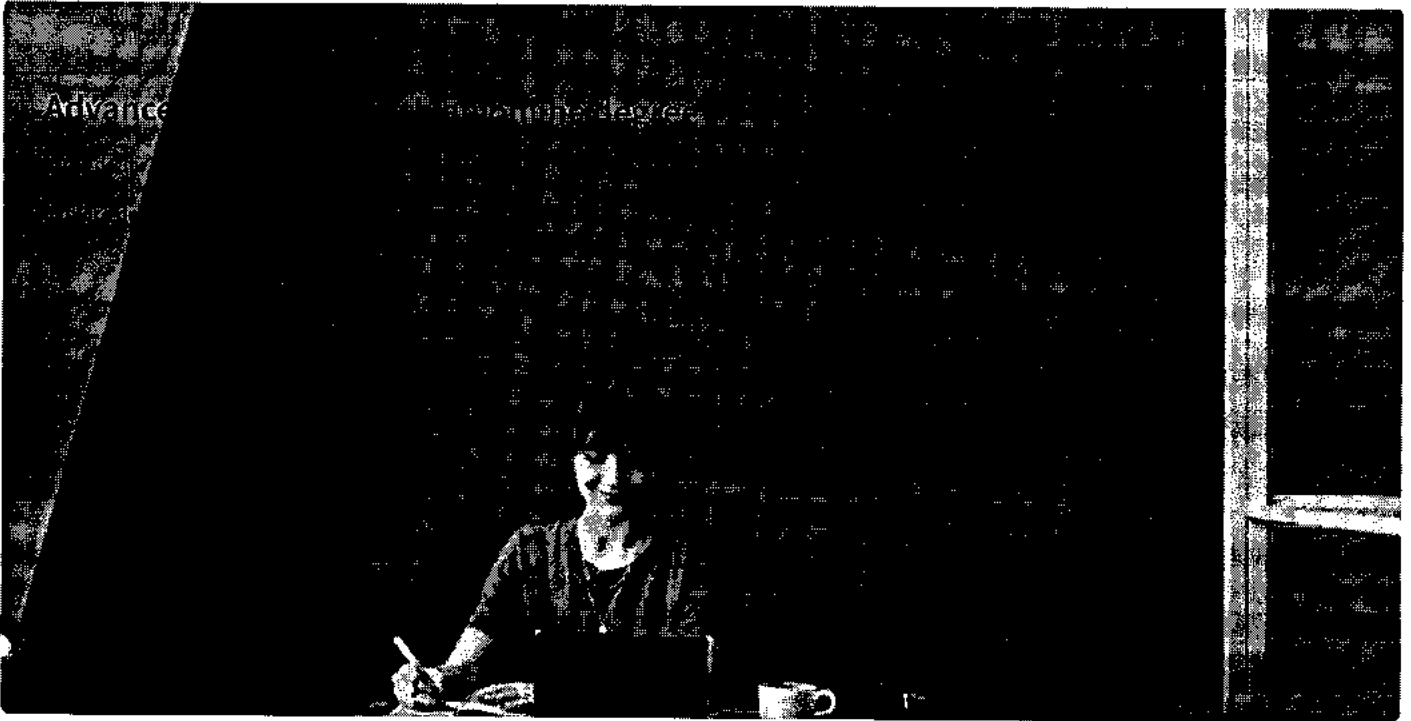
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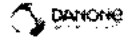
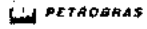
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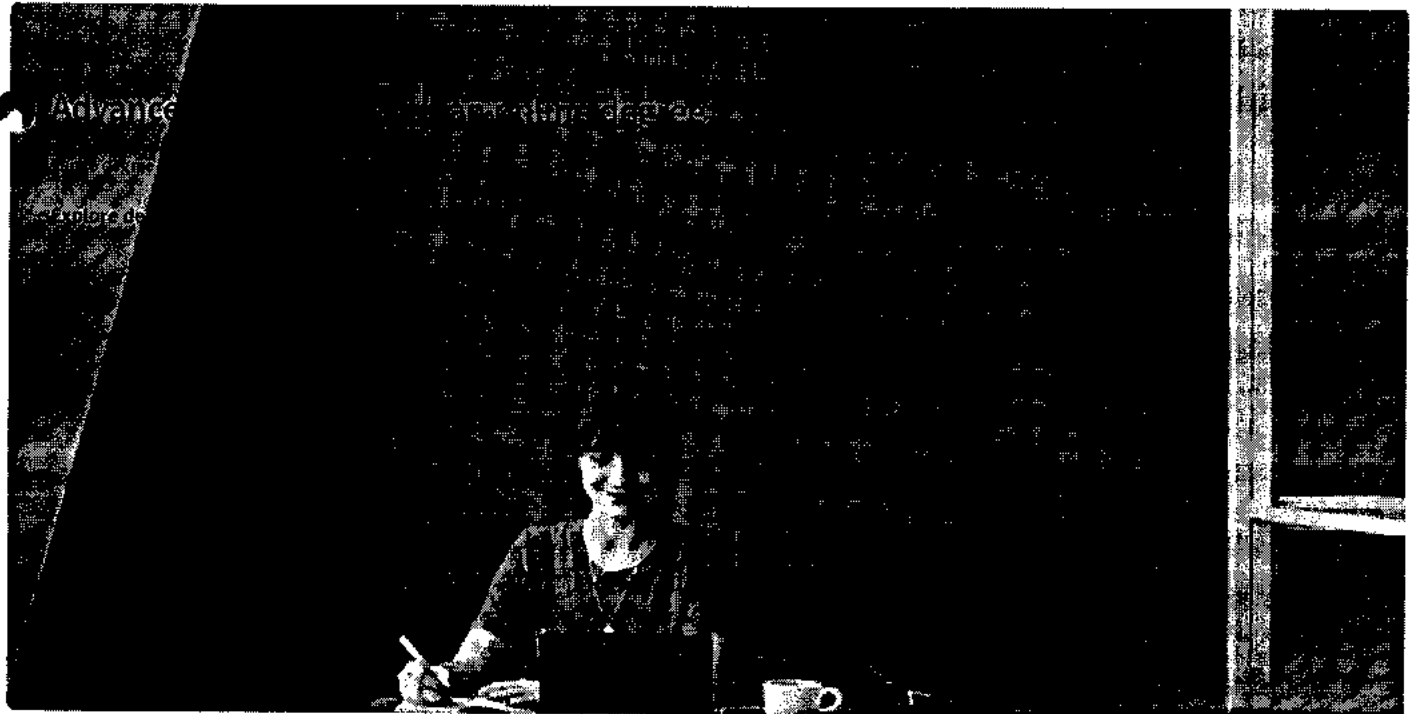
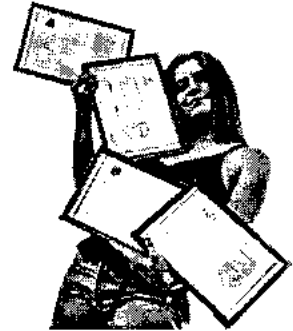
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105_Algorithm on graphs-Coursera

UC San Diego

Algorithms on Graphs

This course is part of [Data Structures and Algorithms Specialization](#)

Taught in English | [8 languages available](#) | Some content may not be translated



Instructors: [Neil Rhodes](#) +4 more

Enroll for Free
Starts Nov 8

Financial aid available

0,495 already enrolled

Included with **coursera PLUS** • [Learn more](#)

Course

Gain insight into a topic and learn the fundamentals

4.7 ★ (2,213 reviews) | 91%

Intermediate level

No previous experience necessary

54 hours (approximately)

Flexible schedule

Learn at your own pace

course modules

Skills you'll gain

[Graph Theory](#) [Graphs](#) [Graph Algorithms](#)

Details to know



Shareable certificate

Add to your LinkedIn profile



English

Subtitles: Kazakh, German, +19 more



Assessments

1 quiz

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Enroll for Free
Starts Nov 8



Build your subject-matter expertise

This course is part of the **Data Structures and Algorithms Specialization**
When you enroll in this course, you'll also be enrolled in this Specialization.

- Learn new concepts from industry experts
- Gain a foundational understanding of a subject or tool
- Develop job-relevant skills with hands-on projects
- Earn a shareable career certificate



Earn a career certificate

Add this credential to your LinkedIn profile, resume, or CV
Share it on social media and in your performance review

There are 6 modules in this course coursera

If you have ever used a navigation service to find optimal route and estimate time to destination, you've used algorithms on graphs. Graphs arise in various real-world situations as there are road networks, computer networks and, most recently, social networks! If you're looking for the fastest time to get to work, cheapest way to connect a set of computers into a network or efficient algorithm to automatically find communities and opinion leaders in Facebook, you're going to work with graphs and algorithms on graphs.

In this online course, you will first learn what a graph is and what are some of the most important properties. Then you'll learn several ways to traverse graphs and how you can do useful things while traversing the graph in some order. We will then talk about shortest paths algorithms — from the basic ones to those which open door for 1000000 times faster algorithms used in Google Maps and other navigational services. You will use these algorithms if you choose to work on our Fast Shortest Routes industrial capstone project. We will finish with minimum spanning trees which are used to plan road, telephone and computer networks and also find applications in clustering and approximate algorithms.

[Read more](#)

Decomposition of Graphs 1

Module 1 • 4 hours to complete

Module details 

Decomposition of Graphs 2

Module 2 • 3 hours to complete



Paths in Graphs 1

Module 3 • 4 hours to complete



Paths in Graphs 2

Module 4 • 4 hours to complete



Minimum Spanning Trees

Module 5 • 4 hours to complete



Advanced Shortest Paths Project (Optional)

Module 6 • 33 hours to complete



Instructors

Instructor ratings  4.5 ★ (172 ratings)



Neil Rhodes

University of California San Diego

7 Courses • 644,587 learners



Daniel M Kane

University of California San Diego

5 Courses • 633,958 learners

Michael Levin

University of California San Diego

7 Courses • 662,431 learners

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Recommended

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Degrees



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Course



University of California San Diego

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Course



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"I directly applied the concepts and skills I learned from my courses to an exciting new project at work."



4.7 2,213 reviews

5 stars	79.30%
4 stars	16.80%
3 stars	2.66%
2 stars	0.81%
1 star	0.54%

FY

★ 5 · Reviewed on Jan 7, 2021

I've wanted to learn about Graphs and the algorithms associated with it for a long time, and I cannot imagine a better course to learn it from. Thank you?

ED

★ 5 · Reviewed on Apr 16, 2021

11/8/23, 8:24 AM

Algorithms on Graphs | Coursera

This is my favorite course in the specialization, the lectures are really clear and the programming assignments are fun and really help to deeply understand everything

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CS

★ 5 · Reviewed on Jul 1, 2019

Excellent Course for anyone looking to expertise Graph Algorithm. Professor's explained each problem and algorithm in a very easy to learn approach. Grades are tough and yet fun to get challenged.

[View more reviews](#)

New to Algorithms? Start here.

What Is a QA Manual Tester?
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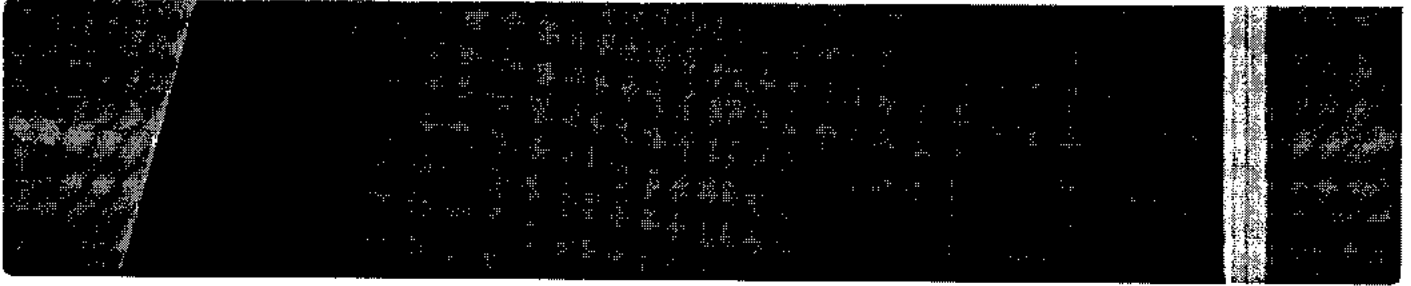
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February 06, 2019

106_Student Development
Programme on Web
Programming

To,
The Principal,
VCET.

Subject : Permission to organize Student Development Program on "Web Programming"

Respected Sir,

Department of Information Technology and Department of Computer Engineering wish to organize Student Development Program (SDP) on "Web programming" for second year students for all branches. Following is proposed schedule for SDP. This SDP will be of 30 hrs duration held over a period of 3 weeks after college hours.

Date	Topic	Resource Person
13 th March	HTML	Mrs. Swati Verma
14 th & 15 th March	CSS	Mrs. Swati Verma
18 th to 22 nd March	Java Script	Mrs. Dhanashree Raut
25 th to 27 th March	Bootstrap	Mr. Chandan Kolvankar
1 st to 2 nd April	Bootstrap	Mr. Chandan Kolvankar

All these lectures will be conducted from 5.00 pm to 7.00 pm. The detailed syllabus is attached herewith.

The registration fees for the same will be Rs. 200/-. The balance amount after meeting the course expenses will be refunded to the students.

Kindly permit to conduct this SDP.

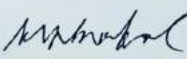



Dr. Ashish Vanmali
HOD - INFT
VCET, Vasai



Dr. Megha Trivedi
HOD - COMP
VCET, Vasai

Permitted the fees will be refunded after completion of Program. The expenses will be borne by college. To be discussed and approved in College Development Committee.


SECRETARY


PRINCIPAL


06/02/19



Vidyavardhini's College of Engineering & Technology
Department of Information Technology

Date: 12/04/2019

To
The Principal,
VCET, Vasai (W)

Subject: Rescheduling student Development Programme on "Web Programming".

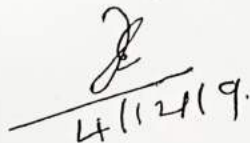
Respected Sir,


Department of Information Technology has planned student development programme on "Web Programming" for second year students from 13th March to 2nd April 2019. The approval of the same was obtained on 06/02/2019. However, because of NAAC peers team visits the said course was not conducted in the specified period.

Therefore, we herewith request you kindly grant permission to reschedule the said course from ~~24th June to 5th July 2019.~~ 21st June to 30th June 2019.

Thanking you.

Permitted, as
per guideline.


4/12/19.


Dr. Ashish Vanmali
HOD, INFT
VCET, Vasai (w)

Vidyavardhini's college of Engineering and Technology
Department of Information Technology
Department of Computer Engineering

Syllabus for workshop on Web programming

1	HTML: Elements, Attributes, Headings, paragraphs, tables, lists, Links, Images, Blocks, Classes, Id	2hrs
2	CSS: Colours, background, border, margin, height/width, text. Font, tables, lists, forms	4hrs
3	Java script: i. Syntax, datatypes, variables, operators, strings ii. Conditions, loops, date iii. Functions, objects, events iv. Arrays, math, Regex v. Form validation	2hrs 2hrs 2hrs 2hrs 2hrs
4	Bootstrap: i. Introduction, git, grid system, Navigation bar and Breadcrumbs ii. Buttons and forms, Tables and Cards, Media, Badges and Progressbars iii. Tabs and Tab navigation, iv. Collapse and acordian v. Bootstrap and JQuery	2hrs 2hrs 2hrs 2hrs 2hrs
5	Practical test	4hrs


HEAD

Dept. of Information Technology
Vidyavardhini's College of
Engineering and Technology.
Vasai Road 401 202.





Schedule

“WEB PROGRAMMING”

Date	Topic	Resource person
21/6/2019	HTML	Mrs Swati Verma
22/6/2019	CSS	Mrs Swati Verma
24/6/2019	CSS	Mrs Swati Verma
25/6/2019	Java Script	Mrs Dhanashree Raut
26/6/2019	Java Script	Mrs Dhanashree Raut
27/6/2019	Bootstrap	Mr Chandan Kolvankar
28/6/2019	Bootstrap	Mr Chandan Kolvankar
29/6/2019	Bootstrap	Mr Chandan Kolvankar
30/6/2019	Bootstrap	Mr Chandan Kolvankar





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Dept. of Information Technology
Vidyavardhini's College of
Engineering and Technology,
Vasai Road 401 202.



**SDP on
Web programming**

Date / Time	21 st June 2019 – 30 th June 2019
Venue/Platform	Room number 223
Duration	60 hrs.
Speaker	Mr. Chandan Kolvankar Mrs. Swati Varma Ms. Michelle Dsouza Mr. Nirav Patel, Raw Engineering
Coordinator	Mr. Chandan Kolvankar, IT VCET
Target audience	TE
Objectives of this seminar	<ol style="list-style-type: none">1. Expose students to Web Programming.2. Orient students towards front End web development using Angular3. Orient students towards Back end development using Nodejs
No. of attendees	15
Participants	TE Students of 2021-22 batch (IT)
Registration Fee	200
Points discussed in the session	Learning Outcomes: Students will be able to: <ol style="list-style-type: none">1. Create basic web page using HTML/CSS2. Develop front end application using React.3. Develop back end application using Nodejs


Mr. Chandan Kolvankar
AP, IT Dept.


Dr. Ashish Vanmali
HOD, IT Dept.





Vidyavardhini's College of Engineering & Technology
Department of Information Technology

Syllabus

SDP ON "PRIMER TO WEB PROGRAMMING"

1	HTML: Elements, Attributes, Headings, Paragraphs, Tables, Lists, Links, Images, Blocks, Classes, and Id	4hrs
2	CSS: Colours, Background, Border, Margin, Height/Width, Text, Font, Tables, Lists and Forms.	6hrs
3	Java script: Syntax, datatypes, variables, operators, strings, Conditions, Loop, Date, Functions, objectives events Array Math, Regex, and Form validation.	10hrs
4.	Practice sessions	



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Vidyavardhini's College of Engineering & Technology
Department of Information Technology

Schedule

“PRIMER TO WEB PROGRAMMING”

Date	Topic	Resource person
21/6/2019	HTML	Mrs Swati Verma
22/6/2019	CSS	Mrs Swati Verma
23/6/2019	CSS	Mrs Swati Verma
24/6/2019	Java Script	Mrs Dhanashree Raut
25/6/2019	Java Script	Mrs Dhanashree Raut



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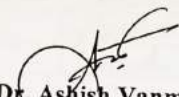
DEPARTMENT OF INFORMATION TECHNOLOGY

K.T. Marg, Vasai Road (W), Dist-Palghar - 401202, Maharashtra

**SDP on
Primer to Web programming**

Date / Time	21 st June 2019 – 25 th June 2019
Venue/Platform	Room number 211
Duration	30 hrs.
Speaker	Mr. Chandan Kolvankar Mrs. Swati Varma Mrs. Dhanashri Raut
Coordinator	Mr. Chandan Kolvankar, IT VCET
Target audience	SE
Objectives of this seminar	<ol style="list-style-type: none">1. Expose students to Web Programming.2. Orient students towards basic web page development.3. Expose students to concepts of responsive design.
No. of attendees	52
Participants	SE Students of 2020-21 batch (IT)
Registration Fee	200
Points discussed in the session	Learning Outcomes: Students will be able to: <ol style="list-style-type: none">1. Create basic web page using HTML/CSS2. Identify web protocols for given problem.3. Develop responsive website using Bootstrap


Mr. Chandan Kolvankar
AP, IT Dept.


Dr. Ashish Vanmali
HOD, IT Dept.



108_Complete Node .js
(Udemy)

The screenshot shows a web browser window with the URL <https://www.udemy.com/course/the-complete-nodejs-developer-course-2/>. The course title is "The Complete Node.js Developer Course (3rd Edition)" with a rating of 4.5 stars and 297,066 students. The table of contents lists the following topics:

✓ Installing and Exploring Node.js
✓ Node.js Module System (Notes App)
✓ File System and Command Line Args (Notes App)
✓ Debugging Node.js (Notes Apps)
✓ Asynchronous Node.js (Weather App)
✓ Web Servers (Weather App)
✓ Accessing API from Browser (Weather App)
✓ Application Deployment (Weather App)
✓ MongoDB and Promises (Task App)
✓ REST APIs and Mongoose (Task App)
✓ API Authentication and Security (Task App)
✓ Sorting, Pagination, and Filtering (Task App)
✓ File Uploads (Task App)
✓ Sending Emails (Task App)
✓ Testing Node.js (Task App)
✓ Real-Time Web Applications with Socket.io (Chat App)
✓ Wrapping Up

109_Complete python
developer (Udemy)

<https://www.udemy.com/course/complete-python-developer-zero-to-mastery/?matchtype=&gbraid=0AAAAA...>

Complete Python Developer in 2023: Zero to Mastery

4.6 ★ (52,371 ratings) 209,684 students

practice and be ready for the real world.

The topics covered in this course are:

- Programming Fundamentals
- Python Basics
- Python Fundamentals
- Data Structures
- Object Oriented Programming with Python
- Functional Programming with Python
- Lambdas
- Decorators
- Generators
- Testing in Python
- Debugging
- Error Handling
- Regular Expressions
- Comprehensions
- Modules
- Virtual Environments

Complete Python Developer in 2023: Zero to Mastery

4.6 ★ (52,371 ratings) 209,684 students

- Comprehensions
- Modules
- Virtual Environments
- Developer Environments (PyCharm, Jupyter Notebooks, VS Code, Sublime Text + more)
- File Processing: Image, CSV, PDFs, Text + more
- Web Development with Python
- Machine Learning with Python
- Data Science with Python
- Automation with Python and Selenium
- Scripting with Python
- Web Scraping with Python and BeautifulSoup
- Image Detection
- Data Visualizations
- Kaggle, Pandas, NumPy, scikit-learn
- Email and SMS with Python
- Working with APIs (Twitter Bot, Password Checker, Translator)

By the end of this course, you will be a complete Python developer that can get hired at large companies. We are going to use Python to work with Email, Text Messages, CSV files, PDF files, Image Files, Data Visualizations,

← ↻ <https://www.udemy.com/course/the-complete-nodejs-developer-course-2/>

The Complete Node.js Developer Course (3rd Edition)
4.5 ★ (70,772 ratings) 296,997 students

Welcome

<input type="checkbox"/> Welcome to the Class! ▾	Preview	05:58
<input type="checkbox"/> Grab the PDF Guide ▾		01:04
▾ Installing and Exploring Node.js		6 lectures • 45min
▾ Node.js Module System (Notes App)		6 lectures • 1hr 14min
▾ File System and Command Line Args (Notes App)		11 lectures • 2hr 16min
▾ Debugging Node.js (Notes Apps)		3 lectures • 24min
▾ Asynchronous Node.js (Weather App)		14 lectures • 3hr 36min
▾ Web Servers (Weather App)		11 lectures • 2hr 22min
▾ Accessing API from Browser (Weather App)		7 lectures • 1hr 22min
▾ Application Deployment (Weather App)		10 lectures • 1hr 46min
▾ MongoDB and Promises (Task App)		12 lectures • 2hr 23min
▾ REST APIs and Mongoose (Task App)		20 lectures • 4hr 8min
▾ API Authentication and Security (Task App)		16 lectures • 3hr 17min
▾ Sorting, Pagination, and Filtering (Task App)		6 lectures • 42min
▾ File Uploads (Task App)		8 lectures • 1hr 23min
▾ Sending Emails (Task App)		6 lectures • 1hr 29min

111_Penetration testing ,incident response and forensics (Coursera)

← ↻ <https://www.coursera.org/learn/ibm-penetration-testing-incident-response-forensics?specialization=ibm-cybersecur>

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Enroll for Free
Starts Nov 9

Financial aid available




70,109 already enrolled

About Outcomes Modules Recommendations Testimonials Reviews

Skills you'll gain

scripting forensics Penetration Test Cybersecurity Computer Security Incident Management

Details to know

		
Shareable certificate	Assessments	English
Add to your LinkedIn profile	13 quizzes	Subtitles: Kazakh, German, +20 more

The screenshot shows the Coursera course page for 'System administration and IT infrastructure services'. The URL in the browser is <https://www.coursera.org/learn/system-administration-it-infrastructure-services?specialization=it-support-certificate>. The navigation bar includes 'For Individuals', 'For Businesses', 'For Universities', and 'For Governments'. The Coursera logo is followed by an 'Explore' dropdown and a search bar containing 'What do you want to learn?'. Below this, it states '390,273 already enrolled' and 'Included with coursera PLUS • Learn more'. A horizontal menu contains 'About', 'Outcomes', 'Modules', 'Recommendations', 'Testimonials', and 'Reviews'. The 'Skills you'll gain' section lists 'Directory Service', 'Lightweight Directory Access Protocol (LDAP)', and 'Backup'. The 'Details to know' section features three columns: 'Shareable certificate' with a LinkedIn icon and the text 'Add to your LinkedIn profile'; 'Assessments' with a checklist icon and the text '24 quizzes'; and 'English' with a speech bubble icon and the text 'Subtitles: English'.

← ↻ 🔒 <https://www.coursera.org/learn/system-administration-it-infrastructure-services?specialization=it-support-certificate>

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
About Outcomes Modules Recommendations Testimonials Reviews


Skills you'll gain

Directory Service Lightweight Directory Access Protocol (LDAP) Backup

Details to know

 **Shareable certificate**
Add to your LinkedIn profile

 **Assessments**
24 quizzes

 **English**
Subtitles: English

113_Introduction to machine learning (Coursera)

The screenshot shows a web browser window with the URL <https://www.coursera.org/learn/machine-learning-duke#modules>. The page title is "Introduction to Machine Learning" with a "Duke" logo. A prominent button says "Enroll for Free Starts Nov 9". Below the title is a navigation menu with "About", "Modules", "Recommendations", "Testimonials", and "Reviews". A section titled "Earn a career certificate" includes the text: "Add this credential to your LinkedIn profile, resume, or CV" and "Share it on social media and in your performance review". To the right of this text is a graphic of a certificate with a "C" logo. Below this is a section titled "There are 4 modules in this course" followed by a paragraph of course description.

Introduction to Machine Learning Enroll for Free Starts Nov 9

About Modules Recommendations Testimonials Reviews

Earn a career certificate

Add this credential to your LinkedIn profile, resume, or CV
Share it on social media and in your performance review

There are 4 modules in this course

This course will provide you a foundational understanding of machine learning models (logistic regression, multilayer perceptrons, convolutional neural networks, natural language processing, etc.) as well as demonstrate how these models can solve complex problems in a variety of industries, from medical diagnostics to image recognition to text prediction. In addition, we have designed practice exercises that will give you hands-on experience implementing these data science models on data sets. These practice exercises will teach you how to implement machine learning algorithms with PyTorch, open source libraries used by leading tech companies in the machine learning field (e.g., Google, NVIDIA, CocaCola, eBay, Snapchat, Uber and many more).

The image shows a screenshot of the Coursera website. At the top, the browser address bar displays the URL: `https://www.coursera.org/learn/python?trk_location=query-summary-list-link`. The Coursera logo is on the left, followed by an 'Explore' button with a dropdown arrow. A search bar contains the text 'What do you want to learn?' and a search icon. Below the search bar is a navigation menu with links for 'About', 'Outcomes', 'Modules', 'Recommendations', 'Testimonials', and 'Reviews'. The main content area is titled 'What you'll learn' and lists four learning objectives, each with a checkmark icon: 'Install Python and write your first program', 'Use variables to store, retrieve and calculate information', 'Describe the basics of the Python programming language', and 'Utilize core programming tools such as functions and loops'. Below this is a section titled 'Skills you'll gain' with four tags: 'Python Syntax And Semantics', 'Basic Programming Language', 'Computer Programming', and 'Python Programming'. The bottom section is titled 'Details to know' and features a LinkedIn icon, a 'Shareable certificate' button with the text 'Add to your LinkedIn profile', a 'Assessments' section with a checkmark icon and the text '5 quizzes', and a hamburger menu icon.

What you'll learn

- ✓ Install Python and write your first program
- ✓ Use variables to store, retrieve and calculate information
- ✓ Describe the basics of the Python programming language
- ✓ Utilize core programming tools such as functions and loops

Skills you'll gain

- Python Syntax And Semantics
- Basic Programming Language
- Computer Programming
- Python Programming

Details to know

- Shareable certificate
Add to your LinkedIn profile
- Assessments
5 quizzes
-

The image shows a browser window displaying the Coursera course page for 'Introduction to Virtual Reality'. The browser's address bar shows the URL 'https://www.coursera.org/learn/introduction-virtual-reality#modules'. The page header includes the course title 'Introduction to Virtual Reality' and a button that says 'Enroll for Free Starts Nov 9'. Below the header is a navigation menu with links for 'About', 'Outcomes', 'Modules', 'Recommendations', 'Testimonials', and 'Reviews'. The main content area features a heading 'There are 4 modules in this course' followed by three paragraphs of introductory text. A 'Read less' button is located at the bottom of the text. At the very bottom, the start of a module title 'Virtual Reality: Hardware and History' is visible.

https://www.coursera.org/learn/introduction-virtual-reality#modules

Introduction to Virtual Reality

Enroll for Free
Starts Nov 9

About Outcomes **Modules** Recommendations Testimonials Reviews

There are 4 modules in this course

This course will introduce you to Virtual Reality (VR). The course will teach you everything from the basics of VR- the hardware and the history of VR- to different applications of VR, the psychology of Virtual Reality, and the challenges of the medium.

The course is designed for people who are new to VR as a medium. You may have experienced some virtual reality before, and may have some hardware- but this course is suitable to individuals who have never experienced VR and those who do not have much hardware- we will explain Mobile VR as well as devices such as the Oculus Rift and HTC Vive.


Introduction to Virtual Reality is the first course in the Virtual Reality Specialisation. A learner with no previous experience in Virtual Reality and/or game programming will be able to evaluate existing VR applications, and design, test, and implement their own VR experiences/games using Unity by the end of the specialisation.

Read less

Virtual Reality: Hardware and History

The image shows a screenshot of a web browser displaying the Coursera course page for 'SQL for Data Science'. The browser's address bar shows the URL: https://www.coursera.org/learn/sql-for-data-science?utm_source=gg&utm_medium=sem&utm_campaign=B. The page title is 'SQL for Data Science'. A navigation menu includes 'About', 'Outcomes', 'Modules', 'Recommendations', 'Testimonials', and 'Reviews'. The main heading is 'There are 4 modules in this course'. Below this, there are three paragraphs of text describing the course's focus on data science, the skills taught (SQL, data governance, profiling), and the prerequisites (a simple text editor). A 'Read less' button is visible at the bottom of the text block.

← ↻ https://www.coursera.org/learn/sql-for-data-science?utm_source=gg&utm_medium=sem&utm_campaign=B

 SQL for Data Science

About Outcomes **Modules** Recommendations Testimonials Reviews

There are 4 modules in this course

As data collection has increased exponentially, so has the need for people skilled at using and interacting with data; to be able to think critically, and provide insights to make better decisions and optimize their businesses. This is a data scientist, "part mathematician, part computer scientist, and part trend spotter" (SAS Institute, Inc.). According to Glassdoor, being a data scientist is the best job in America; with a median base salary of \$110,000 and thousands of job openings at a time. The skills necessary to be a good data scientist include being able to retrieve and work with data, and to do that you need to be well versed in SQL, the standard language for communicating with database systems.

This course is designed to give you a primer in the fundamentals of SQL and working with data so that you can begin analyzing it for data science purposes. You will begin to ask the right questions and come up with good answers to deliver valuable insights for your organization. This course starts with the basics and assumes you do not have any knowledge or skills in SQL. It will build on that foundation and gradually have you write both simple and complex queries to help you select data from tables. You'll start to work with different types of data like strings and numbers and discuss methods to filter and pare down your results.

You will create new tables and be able to move data into them. You will learn common operators and how to combine the data. You will use case statements and concepts like data governance and profiling. You will discuss topics on data, and practice using real-world programming assignments. You will interpret the structure, meaning, and relationships in source data and use SQL as a professional to shape your data for targeted analysis purposes.

Although we do not have any specific prerequisites or software requirements to take this course, a simple text editor is recommended for the final project. So what are you waiting for? This is your first step in landing a job in the best occupation in the US and soon the world!

[Read less](#)

117_Advance machine learning and signal processing (Coursera)

https://www.coursera.org/learn/advanced-machine-learning-signal-processing#modules

IBM Advanced Machine Learning and Signal Processing

Enroll for Free Starts Nov 9

About Outcomes Modules Recommendations Testimonials Reviews

There are 4 modules in this course

>>> By enrolling in this course you agree to the End User License Agreement as set out in the FAQ. Once enrolled you can access the license in the Resources area <<<

[Read more](#)

- Setting the stage
Module 1 • 6 hours to complete
- Supervised Machine Learning
Module 2 • 11 hours to complete
- Unsupervised Machine Learning
Module 3 • 8 hours to complete
- Digital Signal Processing in Machine Learning
Module 4 • 7 hours to complete

<https://www.coursera.org/learn/advanced-machine-learning-signal-processing#recommendations>

Instructors
Instructor ratings: 4.5 ★ (172 ratings)

Romeo Kienzler
IBM
10 Courses • 592,152 learners

[View all 2 instructors](#)

Offered by

IBM
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118_AWS Fundamentals
(Coursera)

coursera

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What do you want to learn? 🔍



AWS Fundamentals Specialization

🗣️ Taught in English | [8 languages available](#) | Some content may not be translated



Instructors: [Morgan Willis](#) +3 more

Top Instructor

Enroll for Free
Starts Nov 9

Financial aid available

18,531 already enrolled

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About

Outcomes

Courses

Testimonials

Skills you'll gain

AWS Identity and Access Management

Networking on AWS

AWS Management Console

Cloud Computing

aws security

Software Architecture

Data Analysis

Data Visualization (DataViz)

[View all skills](#)

Details to know

119_Crash course on python
(Coursera)

← ↻ 🔒 <https://www.coursera.org/learn/python-crash-course?specialization=google-it-automation>

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Google

Crash Course on Python

This course is part of [Google IT Automation with Python Professional Certificate](#)

🗨️ Taught in English

👤 Instructor: [Google Career Certificates](#)
Tap instructor

Enroll for Free Share \$100 Financial aid available

958,198 already enrolled

Included with **COURSERA EDX** • [Learn more](#)

About Outcomes Modules Recommendations Testimonials Reviews

What you'll learn

- ✓ What Python is and why Python is relevant to automation
- ✓ How to write short Python scripts to perform automated actions
- ✓ How to use the basic Python structures: strings, lists, and dictionaries
- ✓ How to create your own Python objects

Skills you'll gain

[Basic Python Data Structures](#) [Fundamental Programming Concepts](#) [Basic Python Syntax](#) [Python Programming](#)

[Object-Oriented Programming \(OOP\)](#)

Details to know

Shareable certificate

Assessments

English

← ↻ 🔒 <https://www.coursera.org/learn/python-crash-course?specialization=google-it-automation>

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Google

Crash Course on Python

This course is part of [Google IT Automation with Python Professional Certificate](#)

🗨️ Taught in English

👤 Instructor: [Google Career Certificates](#)
Tap instructor

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958,198 already enrolled

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About Outcomes Modules Recommendations Testimonials Reviews

What you'll learn

- ✓ What Python is and why Python is relevant to automation
- ✓ How to write short Python scripts to perform automated actions
- ✓ How to use the basic Python structures: strings, lists, and dictionaries
- ✓ How to create your own Python objects

Skills you'll gain

[Basic Python Data Structures](#) [Fundamental Programming Concepts](#) [Basic Python Syntax](#) [Python Programming](#)

[Object-Oriented Programming \(OOP\)](#)

Details to know

Shareable certificate

Assessments

English

This is to certify that
Prathamesh Sachin Suryavanshi
has successfully completed
Career Edge - Knockdown the Lockdown
online course offered by TCS iON

Start Date: 11 Apr 2020 | End Date: 03 May 2020

Topics:

- Communication Skills
- Presentation Skills
- Soft Skills
- Career Guidance Framework
- Resume Writing
- Group Discussion Skills
- Interview Skills
- Business Etiquette
- Effective Email Writing
- Telephone Etiquette
- Accounting Fundamentals
- IT Foundational Skills
- Overview of Artificial Intelligence* (Source: NPTEL)

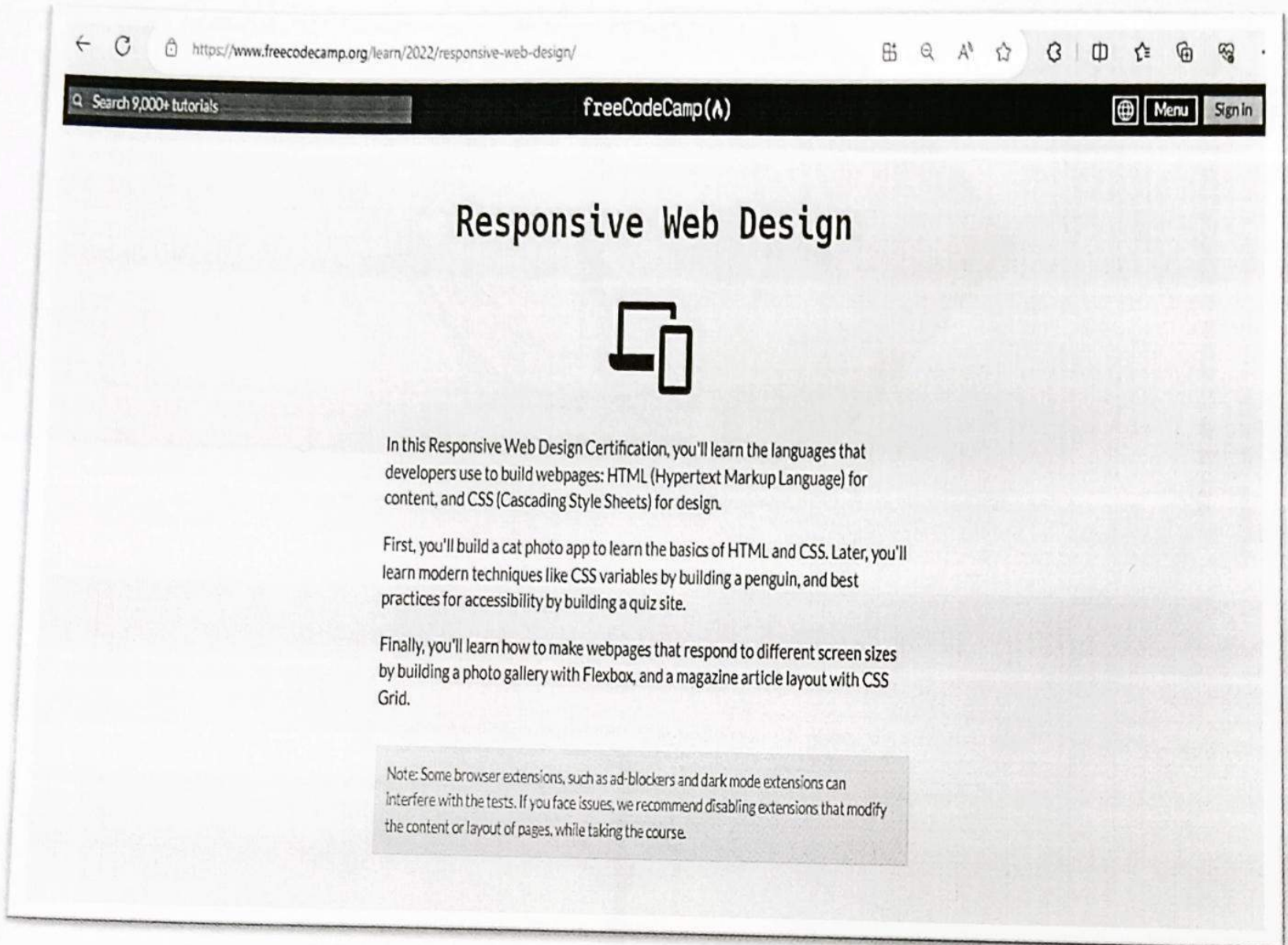


Mehul Mehta

Mehul Mehta


Global Delivery Head, TCS iON

120_Career Edge (TCS iON)



The screenshot shows a web browser window with the URL <https://www.freecodecamp.org/learn/2022/responsive-web-design/>. The browser's address bar includes navigation icons (back, forward, refresh) and search, zoom, and print icons. The page header features a search bar with the text "Search 9,000+ tutorials", the freeCodeCamp logo, and "Menu" and "Sign In" buttons. The main content area has a large heading "Responsive Web Design" and an icon of a laptop and a smartphone. Below the icon, there are three paragraphs of text describing the course content. At the bottom, there is a note in a light gray box.

Responsive Web Design



In this Responsive Web Design Certification, you'll learn the languages that developers use to build webpages: HTML (Hypertext Markup Language) for content, and CSS (Cascading Style Sheets) for design.

First, you'll build a cat photo app to learn the basics of HTML and CSS. Later, you'll learn modern techniques like CSS variables by building a penguin, and best practices for accessibility by building a quiz site.

Finally, you'll learn how to make webpages that respond to different screen sizes by building a photo gallery with Flexbox, and a magazine article layout with CSS Grid.

Note: Some browser extensions, such as ad-blockers and dark mode extensions can interfere with the tests. If you face issues, we recommend disabling extensions that modify the content or layout of pages, while taking the course.

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Introduction to Airplane performance

By Prof. A.K. Ghosh, Prof. Deepu Philip | IIT Kanpur

Learners enrolled: 1259

Introduction to Airplane Performance



ABOUT THE COURSE:



This course is designed to provide an integrated introductory treatment of airplane performance with flavor of aircraft design and flight testing.

INTENDED AUDIENCE : UG/PG of B.Tech/BE in any discipline of engineering

INDUSTRY SUPPORT : DRDO, HAL, Boeing, Airbus, Bell, McDonnell Douglas, UAV Factory, Lockheed Martin

Summary

Course Status :	Completed
Course Type :	Core
Duration :	8 weeks

Category :	 (https://swayam.gov.in/)  Aerospace Engineering (https://swayam.gov.in/nc_details/NPTEL)
	◦ Flight Mechanics
Credit Points :	About Swayam (https://swayam.gov.in/about) All Courses () 2
Level :	Undergraduate
Start Date :	25 Jul 2022
End Date :	16 Sep 2022
Enrollment Ends :	08 Aug 2022
Exam Date :	25 Sep 2022 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

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Course layout

Week 1 : General Introduction: Airplane Performance Characteristics, George Cayley: Concept of Lift and Drag, Introduction to airplane and its components, Hansa 3 Aircraft and its Primary Systems, Concept of Lift: Aerofoil, Wing, and Complete Aircraft, Drag Polar

Week 2 : Revision, Standard Atmosphere: Description and Modelling, Measuring Instruments: Altimeter, Airspeed Indicator, Equations of Motion: Static Performance, Thrust Required, Power Required: Cruise, Excess Thrust and Power: Climb Angle and Rate of Climb

Week 3 : Review, Thrust Required: A Closer Look, Modelling of CL: Dimensional Analysis, A Closer Look: Point Mass Model, Dimensional Analysis, Estimation of Drag Polar Through Flight Test, Estimation of Rate of Climb

Week 4 : Revision, Range and Endurance, Range and Endurance(Continued), Gliding Flight, Accelerated Flight, V-n Diagram

Week 5 : Revision, V stall: Cruise and Manoeuvre, Flaps: High Lift Devices to Reduce Take off / Landing Distance, Take off: Warm-up Lecture, Take off Performance, Take off Performance (Continued)

Week 6 : Revision, Landing Performance, Landing Performance (Continued), Challenges in Take-off and Landing: Single and Twin Engines, Introduction to Static Stability, Positioning of Centre of Pressure for Static Stability

Week 7 : Revision, Stability and Control: Designer's Perspective, Stability and Control: Designer's Perspective (Continued), Longitudinal Control: Elevator, Stability: Wing and Tail Contribution, Stability: Wing and Tail Contribution (Continued)

Week 8 : Control: Elevator, Control: δE Required, Control: δE Required (continued), Design Basics: Wing Loading & Thrust Loading, Design Basics: Sweep & Dihedral, Revision

Books and references

- Introduction to Flight – Anderson
- Aircraft performance and design - Anderson

Instructor bio



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Prof. A.K. Ghosh

IIT Kanpur

Prof. A.K. Ghosh is a faculty of Aerospace Engg. Department of IIT Kanpur. He is also the in-charge of the flight laboratory and unmanned aerial vehicle of IIT Kanpur. His research areas include system identification through flight tests using conventional and neural network based methods, design of aircrafts and airborne projectiles, supercavitation, unmanned aerial systems. Before joining IIT Kanpur, he worked as a scientist with Defense Research Development Organization (DRDO). He has published many peer reviewed journal papers and conference papers, guided 13 doctoral students, and 38 masters students. He is also a mentor of multiple aerospace start-up companies, and also been associated with major industry contributions of high speed low drag aircraft bomb, Pinaka Mk-I, 105mm sabot round for tracked vehicles, etc.



Prof. Deepu Philip

Deepu Philip is a faculty of Industrial & Management Engg. Department and Design Programme of IIT Kanpur. He works in the area of Production and Operations, Systems Simulation, Product Life Cycle Management, Unmanned Aerial Systems, and Systems Engineering. He holds bachelor degree in Industrial Engineering with his doctorate in Industrial & Management Engineering from MSU Bozeman. He has both academic and industrial experience with leading organizations of the world. He has experience in designing and implementing complex system of systems in different fields including defense, aviation, fertilizer, strategic chemical plants, transportation, banking, automation, health care, energy, and communication.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **25 September 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of

the 2 criteria is not met the certificate even if the Final score $\geq 40/100$.



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kanpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>) | All Courses | ()

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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Initiative by : Ministry of Education (Govt of India)

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Basics Of Finite Element Analysis-I

By Prof. Nachiketa Tiwari | IIT Kanpur

Learners enrolled: 4384

Basics of Finite Element Analysis



This course is intended for all those who want to learn FEA from an application standpoint. Currently, many users of FEA have limited understanding of theoretical foundation of this powerful method. The consequence is that quite often they use commercial codes inaccurately, and do not realize that their results may be flawed. The course is intended to address this limitation by making the student aware of the underlying mathematics in easy to understand format. The course is open to all engineering students who have at the minimum successfully completed two years of their B. Tech (or equivalent) degrees.

The course is also open to all professionals in industry who wish to learn fundamentals of FEA in a semi-formal but structured setting, and plan to use this knowledge in their workplace.

INTENDED AUDIENCE: UGs, PGs, professionals in industry who want to learn about basics of sound and acoustics

PREREQUISITES: Must be enrolled into a B.Tech. program or equivalent and should have completed second year of his 4-year program

INDUSTRY SUPPORT: Automotive, NVH, Acoustics, Railways, Power Generation and all industry that has to address issue related to noise.

Summary

Course Status :	Completed (https://swayam.gov.in/)			(https://swayam.gov.in/nc_details/NPTEL)
Course Type :	Elective			
Duration :	About Swayam (https://swayam.gov.in/about) All Courses	0		
Category :	<ul style="list-style-type: none"> ◦ Mechanical Engineering ◦ Advanced Mechanics ◦ Computational Engineering ◦ Computational Mechanics 			
Credit Points :	2			
Level :	Undergraduate/Postgraduate			
Start Date :	14 Sep 2020			
End Date :	06 Nov 2020			
Enrollment Ends :	25 Sep 2020			
Exam Date :	20 Dec 2020 IST			

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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Course layout

Week 1 : Intro & concepts

Week 2 : Mathematical concepts

Week 3 : 1-D BVP problems of 2nd order

Week 4 : Applications: heat transfer/solid mechanics

Week 5 : Beams

Week 6 : Errors & convergence

Week 7 : Time dependent problems

Week 8 : Eigen value problems and closure

Books and references

- An Introduction to the Finite Element Method, by J. N. Reddy

Instructor bio



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Prof. Nachiketa Tiwari

IIT Kanpur

Dr. Nachiketa Tiwari is an Associate Professor of Mechanical Engineering at IIT Kanpur. He has a PhD in engineering mechanics from Virginia Tech. His doctoral thesis involved nonlinear analysis of composite structures through FE, analytical and experimental methods. Dr. Tiwari also has deep understanding of fundamentals of FEA as he has used several tools in industry for over a dozen years for producing world class products. His current areas of research interest are composite structures, noise, vibrations, and product design. He has established Dhvani, an Acoustics Lab at IITK, which is one of the best in the country.

Course certificate

- The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.
- The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
- **Date and Time of Exams:** 20 December 2020, Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE:

- Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.
- Exam score = 75% of the proctored certification exam score out of 100
- Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$.

- If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.
- Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kanpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>)
- Only the e-certificate will be made available. Hard copies will not be dispatched.



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Product Design and Development

By Prof. Inderdeep Singh | IIT Roorkee

Learners enrolled: 5441

Product Design and Development



It has been established worldwide that the most successful economies are based on innovation and creativity led entrepreneurship. The government is focusing on putting concerted efforts to produce job creators.

The current MOOC on Product Design and Development is conceptualized and planned in such a way that it helps both job creators as well as job seekers. The main objective of the course is to acquaint the learners/students with the practical knowledge regarding conceptualization, design and development of a new product. The need of a new product, the product life cycle, the product design process, the application of Value Engineering principles in product design, various product design tools such as CAD, DFM, DFA and DFMA have been explained with relevant and specific examples/ case studies. The concept of Ergonomics in context of the product design has been explained with the help of case studies. The fundamental concept of Rapid Prototyping as well the working principles of the basic rapid prototyping techniques has also been explained.

INTENDED AUDIENCE: It is a core course for UG and PG.

PREREQUISITES: No-prerequisite, any student enrolled for a UG/PG degree in any discipline of humanities, management, science and engineering can complete the course.

INDUSTRY SUPPORT:

requirements.



These products are being conceptualized, designed and developed in order to satisfy the human needs and requirements. (<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Summary

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Course Status :	Completed
Course Type :	Elective
Duration :	4 weeks
Category :	<ul style="list-style-type: none"> o Mechanical Engineering o Product Design
Credit Points :	1
Level :	Undergraduate/Postgraduate
Start Date :	26 Jul 2021
End Date :	20 Aug 2021
Enrollment Ends :	09 Aug 2021
Exam Date :	26 Sep 2021 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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Course layout

Week1: Introduction to course, Product life-cycle, Product policy of an organization. Selection of a profitable product, Product design process, Product analysis.

Week 2: Value engineering in product design; Advantages, Applications in product design, Problem identification and selection, Analysis of functions, Anatomy of function. Primary versus secondary versus tertiary/unnecessary functions, Functional analysis: Functional Analysis System Technique (FAST), Case studies.

Week 3: Introduction to product design tools, QFD, Computer Aided Design, Robust design, DFX, DFM, DFA, Ergonomics in product design,.

Week 4: DFMA guidelines, Product design for manual assembly, Design guidelines for metallic and non-metallic products to be manufactured by different processes such as casting, machining, injection molding etc., Rapid prototyping, needs, advantages, working principle of SLA, LOM and SLS

Books and refer



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Nil

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Instructor bio



Prof. Inderdeep Singh

IIT Roorkee

Dr. Inderdeep Singh is currently working as Associate Professor in Department of Mechanical and Industrial Engineering at Indian Institute of Technology Roorkee. He has taught among others, the industrial engineering courses such as Production Planning and Control, Product Design and Development, Work System Design, Industrial Management and Quality Management. He has been actively involved in the National Mission Project on Education Through ICT (NME-ICT) of Government of India. He has completed three video and one web course under the National Programme on Technology Enhanced Learning (NPTEL). He has developed suitable pedagogical methods for two under-graduate courses of Mechanical Engineering.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **26 September 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 3 assignments out of the total 4 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Roorkee. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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Financial Mathematics

By Prof. Pradeep Kumar Jha | IIT Roorkee



Learners enrolled: 2056

Financial Mathematics Promo



The course on Financial Mathematics focuses on the mathematical properties and relations between concepts of financial and currency markets in investment and other economic activities. The course aims to enthuse confidence in participants to be able to address issues related to globalization of financial markets, development and feasibility of financial transactions, the increasing complexity of portfolio investments, analyzing and forecasting market developments etc. Students in the course will gain an in-depth understanding of advanced economics concepts as well as knowledge of how the financial and banking sectors operate.




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INTENDED AUDIENCE : Basic mathematics, Probability
PREREQUISITES : Basic mathematics, Probability
INDUSTRY SUPPORT : Useful for most of the companies, especially for managers and persons in investment and finance sectors
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Summary

Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks
Category :	<ul style="list-style-type: none"> Mechanical Engineering
Credit Points :	3
Level :	Undergraduate/Postgraduate
Start Date :	27 Jan 2020
End Date :	17 Apr 2020
Enrollment Ends :	24 Feb 2020
Exam Date :	26 Apr 2020 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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Course layout

- Week 1** : Mathematical introduction, Growth and decay curves
- Week 2** : Simple interest, bank discount
- Week 3** : Compound interest, discrete compounding
- Week 4** : Compounding frequency of interest, Economic equivalence
- Week 5** : Method of comparison of alternatives, Project balance
- Week 6** : Credit and loan, Cost of credit and amortization



- Week 7** : Depreciation
- Week 8** : Break-even analysis (https://swayam.gov.in/)  (https://swayam.gov.in/nc_details/NPTEL)
- Week 9** : Stocks and bonds, valuation of stocks and bonds
- Week 10** : Mutual funds, Options, Cost of capital and ratio analysis
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- Week 11** : Decision under risk & uncertainty, Risk premium, Portfolio diversification
- Week 12** : Life Insurance, Endowment, and annuities, Insurance policies

Books and references

- Marek Capinski and Tomasz Zastawniak, "Mathematics for Finance", Springer.
- Ambad Nazri Wahidudin, "Financial Mathematics and its Applications", Ventus Publishing ApS

Instructor bio



Prof. Pradeep Kumar Jha

IIT Roorkee

Dr Pradeep K. Jha is presently working as Associate Professor in the Department of Mechanical & Industrial Engineering at IIT Roorkee. He has been teaching the courses related to manufacturing technology and theory of production processes to undergraduate and postgraduate students for more than 12 years. He is actively involved in research work related to production processes, tundish steelmaking process, mold solidification in continuous casting etc.

Course certificate

- The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.
- The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
- **Date and Time of Exams:** 26th April 2020, Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE:

- Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course
- Exam score = 75% of the proctored certification exam score out of 100



- Final score = Assignment score + Exam score



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YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$.

- If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.
- Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Roorkee. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).
- Only the e-certificate will be made available. Hard copies will not be dispatched.



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Solar Photovoltaics: Principles, Technologies and Materials

By Prof. Ashish Garg | IIT Kanpur

Learners enrolled: 1703

noc19-mm04-Solar Photovoltaics: Principles, Technologies & Materials



This course is an introductory course on solar photovoltaics materials and devices covering fundamentals of operation of solar cells, physics of semiconducting materials, P-N junction device characteristics in dark and light. We will also discuss various solar photovoltaic technologies and their status with a brief discussion of the fabrication aspects of the devices. The course will also discuss the materials and technologies issues as well as device measurement techniques.

INTENDED AUDIENCE : NIL

PREREQUISITES : Basic Physics knowledge

INDUSTRY SUPPORT : Most companies related to solar photovoltaics

Summary

Course Status :	Completed
Course Type :	Elective
Duration :	8 weeks
Category :	<ul style="list-style-type: none"> Metallurgy and Material science & Mining Engineering
Credit Points :	2
Level :	Undergraduate/Postgraduate
Start Date :	27 Jan 2020
End Date :	20 Mar 2020
Enrollment Ends :	03 Feb 2020
Exam Date :	29 Mar 2020 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.



This is an AICTE approved FDP course


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Course layout

Week 1 : Introduction and Solar radiation fundamentals

Week 2 : Basic physics of semiconductors

Week 3 : Carrier transport, generation and recombination in semiconductors

Week 4 : Semiconductor junctions

Week 5 : Essential characteristics of solar photovoltaic devices

Week 6 : First Generation Solar Cells

Week 7 : Second Generation Solar Cells

Week 8 : Third Generation Solar Cells

Books and references

Handbook of Photovoltaic Science and Engineering. Eds. A. Luque and S. Hegedus, Wiley• The Physics of Solar Cells, Jenny Nelson, Imperial College Press• Thin Films Solar Cells, K.L. Chopra, McGraw Hill• Physics of Solar Cells: From Basic Principles to Advanced Concepts by Peter Würfel• Photovoltaics Materials by R.H. Bube

Instructor bio



Prof. Ashish Garg

IIT Kanpur

Ashish Garg is Professor of Materials Science and Engineering at IIT Kanpur. Details of his research and teaching can be accessed on home.iitk.ac.in/~ashishg/

Course certificate

- The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.
- The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
- **Date and Time of Exams: 29th March 2020**, Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE:

- Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.
- Exam score = 75% of the proctored certification exam score out of 100
- Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$.

- If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.



- Certificate will have your name, photograph in the final exam with the breakup. It will have the logos of NPTEL and IIT Kanpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).
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Once again, thanks for your interest in our online courses and certification. Happy learning.

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Analog Circuits

By Prof. Jayanta Mukherjee | IIT Bombay

Learners enrolled: 5458

Prof J Mukherjee



This course is designed as the introductory course on Analog Circuits for undergraduate students. It covers the basic components and methodologies used for Analog Design. Most of the portion deals with OPAMP based circuits. Later in the course some BJT based circuits are discussed.

INTENDED AUDIENCE
PREREQUISITES
INDUSTRY SUPPORT



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Summary

Course Status :	Completed
Course Type :	Core
Duration :	8 weeks
Category :	<ul style="list-style-type: none">Electrical, Electronics and Communications EngineeringControl and InstrumentationVLSI design
Credit Points :	2
Level :	Undergraduate
Start Date :	24 Jan 2022
End Date :	18 Mar 2022
Enrollment Ends :	07 Feb 2022
Exam Date :	27 Mar 2022 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

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Course layout

- Week 1: Introduction, Poles and Zeros, Ideal Opamp, Applications of OPAMP – Inverting and Non Inverting Amplifier
- Week 2: Applications of OPAMP (..Contd) – Summer Amplifier, Difference Amplifier, Integrator, Differentiator
- Week 3: Non Idealities in an OPAMP – Finite Gain, Bandwidth, Slew Rate, Saturation, Offset Voltage, Bias Current
- Week 4: Bode Plots, Frequency Response, Millers Theorem, Feedback, Effect of Feedback

Books and references

1. Microelectronic Circuits : Theory and Applications, by Sedra and Smith,
2. Fundamentals of Electric Circuits by Alexander and Sadiku,
3. Analog Integrated Circuit Design, by Johns and Martin,
4. Analysis and Design of Analog Integrated Circuits, by Grey, Hurst and Mayer

Instructor bio



Prof. Jayanta Mukherjee
IIT Bombay

Prof. Jayanta Mukherjee is an Associate Professor, at the department of Electrical Engineering at the Indian Institute of Technology, Bombay. His research interests are in the field of RF circuit design and Microwave Engineering. He has a keen interest in product design and has delivered a number of products to organizations such as BARC, and ISRO. He also actively collaborates with the private sector in India. Professor Mukherjee has won a number of research awards, has published extensively and is a Senior Member of IEEE.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **27 March 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.



Details on the cities where the exams will be held, the conditions you agree to when you fill the
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Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.
Exam score = 75% of the proctored certification exam score out of 100
Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE >=10/25 AND EXAM SCORE >= 30/75. If one of the 2 criteria is not met, you will not get the certificate even if the Final score >= 40/100.

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Founder President Late Padmashri H. G. Vartak

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PAT Centre

128_Compertitive exams & Aptitude
Training for TE by Campus credential

Date:16-10-2018

To,

The Principal,

VCET Vasai.

Subject: Request to permit CRT Aptitude Training Sessions for Third Year students graduating in June 2020.

Respected Sir,

Training & Placement Cell is planning to schedule CRT Aptitude Training session by Campus Credential for Academic Year 2018-19.

CRT Aptitude Training will assist students to prepare for Placement & Higher Studies entrance examination. Completion certificate will be awarded to students at the end of the training after assessing at regular intervals.

Attached herewith is the proposal including Syllabus for the training.

Kindly permit our request.

Thank You.

Best Regards,

Prof. Prafulla Patil,

Placement Manager

VCET Vasai

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	6
Verbal-Reasoning		5
Logical Reasoning 2(Puzzles)		5
Resume Building lecture /PI Preparation/GD brief	Soft Skills	4
Essay writing		2
Total hours per batch		48-50 Hrs approx

PHASE: II

Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5
Quant-Arithmetic		5
Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	3
Verbal-Reasoning		2
Logical Reasoning 2(Puzzles)		2
Essay Writing	Soft Skills	4
Communication		2
Group Discussion		6
Resume /Personal Interview		4
Personal Interview Individual (One to One by corporates)		20

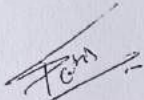
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Training & Placement Cell

PHASE: III MOCK INTERVIEW

A mock interview helps students to experience way to answer difficult questions, develop interview strategies, improve communication skills, and reduce stress before an actual placement drive. During a mock interview, the interviewer may use a semi-structured interview format rather than asking a formal list of questions.

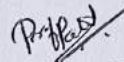
Campus Credential had arranged face to face interview of each students. It build confidence in students to face interview by company HR and higher study admission decision committee.

In Year 2018-19 Campus Credential and Training and Placement Cell had provided all phases of aptitude and soft training for students. Students of all branches were attended these training sessions.



Prof. Sanket Patil

Training and Placement cell



Prof. Prafulla Patil

Training and Placement cell

**Competitive Exams and Aptitude Training for TE
BY CAMPUS CREDENTIAL**

Year 2018-19

SCHEDULE

Training and Placement cell had organized aptitude and soft skill training to VCET students through Campus Credential at college premises. Selection of Campus Credential as training partner is based on students' feedback on demo lecture of Campus Credential.

Aptitude training was conducted in 3 phase's details of training contents as below

PHASE : I		
Content	Subject	Date
Verbal-Reading Comprehension	English	7/1/2019
Verbal-Ability		7/1/2019
Quant-Vedic math's	Mathematics	7/1/2019
Quant-Arithmetic		8/1/2019
Quant-Numbers		9/1/2019
Quant-Geometry		10/1/2019
Logical Reasoning 1	Logical Reasoning	11/1/2019
Verbal-Reasoning		12/1/2019
Logical Reasoning 2(Puzzles)		12/1/2019
Resume Building lecture /PI Preparation/GD brief	Soft Skills	12/1/2019
Essay writing		12/1/2019
PHASE: II		
Verbal-Reading Comprehension	English	13/1/2019
Verbal-Ability		13/1/2019

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

Quant-Vedic math's	Mathematics	13/1/2019
Quant-Arithmetic		13/1/2019
Quant-Numbers		13/1/2019
Quant-Geometry		13/1/2019
Logical Reasoning 1	Logical Reasoning	14/1/2019
Verbal-Reasoning		14/1/2019
Logical Reasoning 2(Puzzles)		14/1/2019
Essay Writing	Soft Skills	14/1/2019
Communication		14/1/2019
Group Discussion		15/1/2019
Resume /Personal Interview		15/1/2019
Personal Interview Individual (One to One by corporates)		15/1/2019



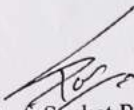
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PHASE: III MOCK INTERVIEW

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Training and Placement cell





Prof. Prafulla Patil

Training and Placement cell

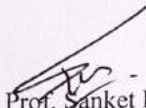
Soft Skills (GD and PI) Training for TE

BY CAMPUS CREDENTIAL

Year 2018-19

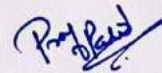
SCHEDULE

Soft Skills		
Content	Subject	Date
Essay Writing	Soft Skills	8/7/2019 & 9/7/2019
Communication		10/7/2019
Group Discussion		11/7/2019
Resume /Personal Interview		12/7/2019
Personal Interview Individual (One to One by corporates)		15/7/2019


Prof. Sanket Patil

Training and Placement cell





Prof. Prafulla Patil

Training and Placement cell



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Thank You.

Best Regards,

Prof. Prafulla Patil,

Placement Manager

VCET Vasai

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	6
Verbal-Reasoning		5
Logical Reasoning 2(Puzzles)		5
Resume Building lecture /PI Preparation/GD brief	Soft Skills	4
Essay writing		2
Total hours per batch		48-50 Hrs approx

PHASE: II

Verbal-Reading Comprehension	English	3
Verbal-Ability		3
Quant-Vedic math's	Mathematics	5
Quant-Arithmetic		5
Quant-Numbers		5
Quant-Geometry		5
Logical Reasoning 1	Logical Reasoning	3
Verbal-Reasoning		2
Logical Reasoning 2(Puzzles)		2
Essay Writing	Soft Skills	4
Communication		2
Group Discussion		6
Resume /Personal Interview		4
Personal Interview Individual (One to One by corporates)		20

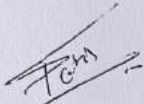
Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

PHASE: III MOCK INTERVIEW

A mock interview helps students to experience way to answer difficult questions, develop interview strategies, improve communication skills, and reduce stress before an actual placement drive. During a mock interview, the interviewer may use a semi-structured interview format rather than asking a formal list of questions.

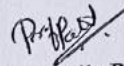
Campus Credential had arranged face to face interview of each students. It build confidence in students to face interview by company HR and higher study admission decision committee.

In Year 2018-19 Campus Credential and Training and Placement Cell had provided all phases of aptitude and soft training for students. Students of all branches were attended these training sessions.



Prof. Sanket Patil

Training and Placement cell



Prof. Prafulla Patil

Training and Placement cell

**Competitive Exams and Aptitude Training for TE
 BY CAMPUS CREDENTIAL**

Year 2018-19

SCHEDULE

Training and Placement cell had organized aptitude and soft skill training to VCET students through Campus Credential at college premises. Selection of Campus Credential as training partner is based on students' feedback on demo lecture of Campus Credential.

Aptitude training was conducted in 3 phase's details of training contents as below

PHASE : I		
Content	Subject	Date
Verbal-Reading Comprehension	English	7/1/2019
Verbal-Ability		7/1/2019
Quant-Vedic math's	Mathematics	7/1/2019
Quant-Arithmetic		8/1/2019
Quant-Numbers		9/1/2019
Quant-Geometry		10/1/2019
Logical Reasoning 1	Logical Reasoning	11/1/2019
Verbal-Reasoning		12/1/2019
Logical Reasoning 2(Puzzles)		12/1/2019
Resume Building lecture /PI Preparation/GD brief	Soft Skills	12/1/2019
Essay writing		12/1/2019
PHASE: II		
Verbal-Reading Comprehension	English	13/1/2019
Verbal-Ability		13/1/2019

Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

Quant-Vedic math's	Mathematics	13/1/2019
Quant-Arithmetic		13/1/2019
Quant-Numbers		13/1/2019
Quant-Geometry		13/1/2019
Logical Reasoning 1	Logical Reasoning	14/1/2019
Verbal-Reasoning		14/1/2019
Logical Reasoning 2(Puzzles)		14/1/2019
Essay Writing	Soft Skills	14/1/2019
Communication		14/1/2019
Group Discussion		15/1/2019
Resume /Personal Interview		15/1/2019
Personal Interview Individual (One to One by corporates)		15/1/2019



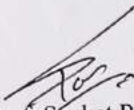
Vidyavardhini's College of Engineering & Technology, Vasai
Training & Placement Cell

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Prof. Sanket Patil

Training and Placement cell





Prof. Prafulla Patil

Training and Placement cell

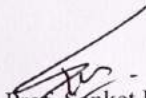
Soft Skills (GD and PI) Training for TE

BY CAMPUS CREDENTIAL

Year 2018-19

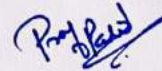
SCHEDULE

Soft Skills		
Content	Subject	Date
Essay Writing	Soft Skills	8/7/2019 & 9/7/2019
Communication		10/7/2019
Group Discussion		11/7/2019
Resume /Personal Interview		12/7/2019
Personal Interview Individual (One to One by corporates)		15/7/2019


Prof. Sanket Patil

Training and Placement cell





Prof. Prafulla Patil

Training and Placement cell



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Courses (<https://swayam.gov.in/explorer>) >

Programming In Java

By Prof. Debasis Samanta | IIT Kharagpur

Learners enrolled: 45444

With the growth of Information and Communication Technology, there is a need to develop large and complex software. Further those software should be platform independent, Internet enabled, easy to modify, secure, and robust. To meet this requirement object-oriented paradigm has been developed and based on this paradigm the Java programming language emerges as the best programming environment. Now, Java programming language is being used for mobile programming, Internet programming, and many other applications compatible to distributed systems. This course aims to cover the essential topics of Java programming so that the participants can improve their skills to cope with the current demand of IT industries and solve many problems in their own field of studies.

INTENDED AUDIENCE: Undergraduate students from the engineering disciplines namely CSE, IT, EE, ECE, etc. might be interested for this course (<https://swayam.gov.in/>) (https://swayam.gov.in/nc_details/NPTEL)

PREREQUISITES: This course requires that the students are familiar with programming language such as C/C++ and data structures, algorithms.

INDUSTRY SUPPORT: All IT companies.



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



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Summary

Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks
Category :	<ul style="list-style-type: none"> Computer Science and Engineering Programming
Credit Points :	3
Level :	Undergraduate
Start Date :	24 Jan 2022
End Date :	15 Apr 2022
Enrollment Ends :	07 Feb 2022
Exam Date :	24 Apr 2022 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_cs47%2Fpreview&title=Programming%20In%20Java%20-%20Course)

Course layout

Week 1 : Overview of Object-Oriented Programming and Java

Week 2 : Java Programming Elements

Week 3 : Input-Output Handling in Java

Week 4 : Encapsulation

Week 5 : Inheritance

Week 6 : Excepti

Week 7 : Multith  (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)

Week 8 : Java Applets and Services

Week 9 : Java Swing and Abstract Windowing Toolkit (AWT) [About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | All Courses | ()

Week 10 : Networking with Java

Week 11 : Java Object Database Connectivity (ODBC)

Week 12 : Interface and Packages for Software Development

Books and references

1. Java: The Complete Reference Hebert Schildt, Mc Graw Hill
2. Object-Oriented Programming with C++ and Java Debasis Samanta, Prentice Hall India.

Instructor bio



Prof. Debasis Samanta

IIT Kharagpur

Debasis Samanta holds a Ph.D. in Computer Science and Engineering from Indian Institute of Technology Kharagpur. His research interests and work experience spans the areas of Computational Intelligence, Data Analytics, Human Computer Interaction, Brain Computing and Biometric Systems. Dr. Samanta currently works as a faculty member at the Department of Computer Science & Engineering at IIT Kharagpur.



Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

This course will have an unproctored programming exam also apart from the Proctored exam, please check announcement section for date and time. The programming exam will have a weightage of 25% towards the Final score.



Final score = Assignment score (https://swayam.gov.in/) + Proctored Exam score (https://swayam.gov.in/nc_details/NPTEL)

- Assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.
- (All assignments in a particular week will be counted towards final scoring - quizzes and programming assignments).
- Unproctored programming exam score = 25% of the average scores obtained as part of Unproctored programming exam - out of 100
- Proctored Exam score = 50% of the proctored certification exam score out of 100

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF ASSIGNMENT SCORE $\geq 10/25$ AND UNPROCTORED PROGRAMMING EXAM SCORE $\geq 10/25$ AND PROCTORED EXAM SCORE $\geq 20/50$.

If any one of the 3 criteria is not met, you will not be eligible for the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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Initiative by : Ministry of Education (Govt of India)

Vidyavardhini's College Of Engineering and Technology

Date: 11/01/2019

To
The Principal
VCET, Vasai (W)

Subject: Permission for starting new batch of German Language Course

Respected Sir,

Since last 3 years we have started German language course in our college.

We would like to start new batch from the beginning of this semester. The course consists of A1 German language syllabus.

The registration process will get start after getting permission from you.

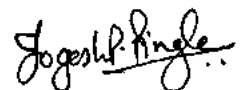
The course will be conducted only on Monday 5.00 to 7.00 pm.(Only 1 day in a week) It will get adjusted according to holidays on Monday. The course will take approximately 52 hours.

The registration fees for this course is Rs.2500/- only.

Kindly do the needful.

Thanking You.

Yours faithfully,



Prof. Yogesh P. Pingle
German language Teacher

Expected Students	30 Students	40 Students	50 Students
Total Income	30*2500 = 75000/-	40*2500=100000/-	50*2500=125000/-
Remuneration@500Rs. Per Lecture * 52	26000/-	26000/-	26000/-
Book Cost @780Rs. Per Student	30*780=23400/-	40*780=31200/-	50*780=39000/-
Profit To College	25600/-	42800/-	60000/-

Surplus remitted to

* Last year Permission Letter and permission letter from management are enclosed.

Kindly permit as it is part of soft skills development

[Signature]
11/01/2019
HOD IT

As Varshali

Permitted



Registration Account.
Approved
The remuneration to be
paid as per resolution year.
[Signature]
14/01/19



Syllabus

Subject Code	Subject Name	Examination Scheme					
		Theory Marks		Term Work	Practical	Oral	Total
		Internal assessment	End Sem. Exam				
		Test I					
A1	German Language	20	40	20	--	20	100

Module – 1

(12Hr) CO1

1. Alphabets, Compound letters and their pronunciations
2. Practice pronunciations
3. Chapter 1 (Conversation)
4. Cases and Personal Pronoun, The Verb: Present Tense (Regular Verbs)
5. The Verb (Special Verbs) sein and haben
6. Chapter 2 (Conversation)
7. Possessive Pronoun, Demonstrative Pronoun and Reflexive pronoun
8. Numbers
9. Chapter 3 (Conversation)
10. Frage (Questions) pronouns: Wer (who) and Was (what)
11. Days, Months, Years
12. Myself, Our Family

Module – 2

(12Hr) CO2

1. Types of Verbs
 - a. Regular Verbs & Irregular Verbs
 - b. Transitive & Intransitive Verbs
 - c. Strong & Separable Verbs
 - d. Modal Verbs
2. Conjugation of Verbs
3. Chapter 4 (A Journey)
4. Nouns - Declination
5. Word Order – Sentence formation
6. Chapter 5 (A friend Comes)
7. Chapter 6 (2 Hours in Munchen)
8. Prepositions with Dative (Local and Temporal)



9. Prepositions with Accusative (Local and Temporal)
10. Timings

Module - 3

(14Hr)

CO3

1. Meals and Timings
2. Chapter 7 (Conversation)
3. Modal Verbs in detail
4. Chapter 8 (My House)
5. Prepositions with Dative or Accusative
6. Articles depending on action and / or position (wohin and wo)
7. Describe the picture
8. Chapter 9 (A journey)
9. Genitive Case
10. Past Tense (Imperfect)
11. Perfect Tense
12. Verb Conjugation Schemes (Present – Past – Perfect)

Module - 4

(14Hr)

CO4

1. Daily Routine (Morning till evening)
2. Letter writing
3. Adjective Declination
4. Ja-nein-doch (Different answers – yes, no)
5. Neben sentences (Composite sentences) – because, that
6. Relative Sentences
7. Colours, Vegetables, fruits
8. Internet / Computer Vocabulary
9. Email Writing
10. Writing Resume (Bio Data)

Text Books:

1. "Deutsche Sprachlehre für Ausländer", by Dora Schulz, Heinz Griesbach, Max Hueber Verlag
2. "Netzwerk Deutsch als Fremdsprache A1", by Helen Schmitz Stefanie Dengler, Paul Rusch, Langenscheidt; First Indian Edition 2015 edition (2015)

Online References:

1. https://www.youtube.com/channel/UCPK3Vd_cdMZ35q6DWE1KFSA
2. https://onlinecourses.nptel.ac.in/noc21_hs30/preview
3. https://onlinecourses.nptel.ac.in/noc19_hs50/preview



Vidyavardhini's College of Engineering & Technology

German Club (Established in 2016)

Assessment:

Internal Assessment for 20 marks:

Consisting of One Compulsory Class Test Approximately 40% to 50% of syllabus content must be covered in the test.

End Semester Examination:

End Semester Test consists of full syllabus.

Theory exam is of 40 M.

Term Work = 20 M which consists of at least 4 assignments, 4 quizzes.

Oral Exam = 20 M which consists of Dictation – 5 M, Listening Comprehension – 5 M, Reading Ability – 5 M, Oral – 5 M

Jogesh P. Pingle
Jogesh P. Pingle



Vidyavardhini's College of Engineering and Technology, Vasai

विद्यावर्धिनीचे अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालय, वसई

Affiliated to the University of Mumbai.

Department of Information Technology

132_Student Development
Programme On Full Stack
Development

Date: 23/10/2018

To

The Principal,

VCET, Vasai (W)

Subject: Permission for organizing Two week "Full Stack Development" workshop.

Respected Sir,

We, the department of Information Technology would like to organize two week "Full Stack Development" for Third Year students.

Course contents will be as follows:

- 1 Node.js
- 2 AngularJS
- 3 React Native
- 4 MongoDB

Budget Proposal is as follows.

YEAR	Course Name	No. of Week	Amount
Third Year (TE)	Full Stack Development	2 week(10 days)	20000/-
Total Amount			Rs. 20,000/-

We wish to charge Rs. 500 to each student as fee deposit which will be refunded in full on completion of course.

Yours faithfully,

mlw

Prof. Madhavi Waghmare

HOD, Dept. of IT

Approval

AG Varshok

CHAIRMAN

SECRETARY


[Signature]
PRINCIPAL

**SDP for T.E.
Full Stack Development
25th December 2018 - 3rd January 2019**

Students will be divided into groups of 4. They will be given data intensive projects. They will have to use a few things learned during the course. They will have to justify the use of tools/packages/databases used.

Morning Session: 9.30 am - 12.30 pm
Afternoon session: 2 pm - 5 pm

Day	Date	Morning Session	Name of the speaker	Afternoon session	Name of the speaker
1	25-12-18	Web Protocols	Chandan Kolvankar	HTML/CSS/Bootstrap	Michelle Dcruz
2	26-12-18	TypeScript	Nilesh More	Angular Basics	Nilesh More
3	27-12-18	Angular Components, SPAs	Nilesh More	Angular as front end	Nilesh More
4	28-12-18	NodeJS basics	Sidharth Chaudhary	NodeJS Packages	Siddharth Chaudhary
5	29-12-18	NodeJS REST service	Sidharth Chaudhary	Nodejs databases	Siddharth Chaudhary
6	30-12-18	MongoDB	Chandan Kolvankar	MongoDB CRUD	Chandan kolvankar
7	31-12-18	Express	Chandan Kolvankar	Express Router, REST API	Chandan kolvankar
8	1-1-19	Marklogic	Hitesh Parikh		
9	2-1-19	Project Development	Raw Engineering team	Project Development	Raw engineering team
10	3-1-19	Project Development	Raw Engineering team	Project Development	Raw engineering team


HEAD
 Dept. of Information Technology
 Vidyayarghni's College of
 Engineering and Technology,
 Vasai Road 401 202.





Department of Information Technology

Student Development Programme on "Full Stack Development"

Speaker(s):

Mr. Hitesh Parikh

Mr. Nilesh More

Mr. Siddharth Chaudhari

Facilitator(s):

Dr. Madhavi Waghmare

This workshop was to discuss cryptography techniques and network security issues

Workshop Title	Full stack development
Description	<p>A full stack web developer is a person who can develop both client and server software.</p> <p>In addition to mastering HTML and CSS, he/she also knows how to:</p> <ul style="list-style-type: none">• Program a browser (like using JavaScript, jQuery, Angular, or Vue)• Program a server (like using PHP, ASP, Python, or Node)• Program a database (like using SQL, SQLite, or MongoDB)
Objective of this workshop	<p>Students will be able to understand</p> <ol style="list-style-type: none">1 Client side scripting2 Single page applications using Angularjs3 Server side scripting using nodejs4 Project development using full stack
Participants	Third year students of IT and computer department
Maximum enrolment	42
Learning outcomes	<p>Students will be able to</p> <ol style="list-style-type: none">1 write client side scripts using javascript2 will be able to develop frontend using angularjs3 will be able to develop applications using nodejs4 will be able to use mongodb as database



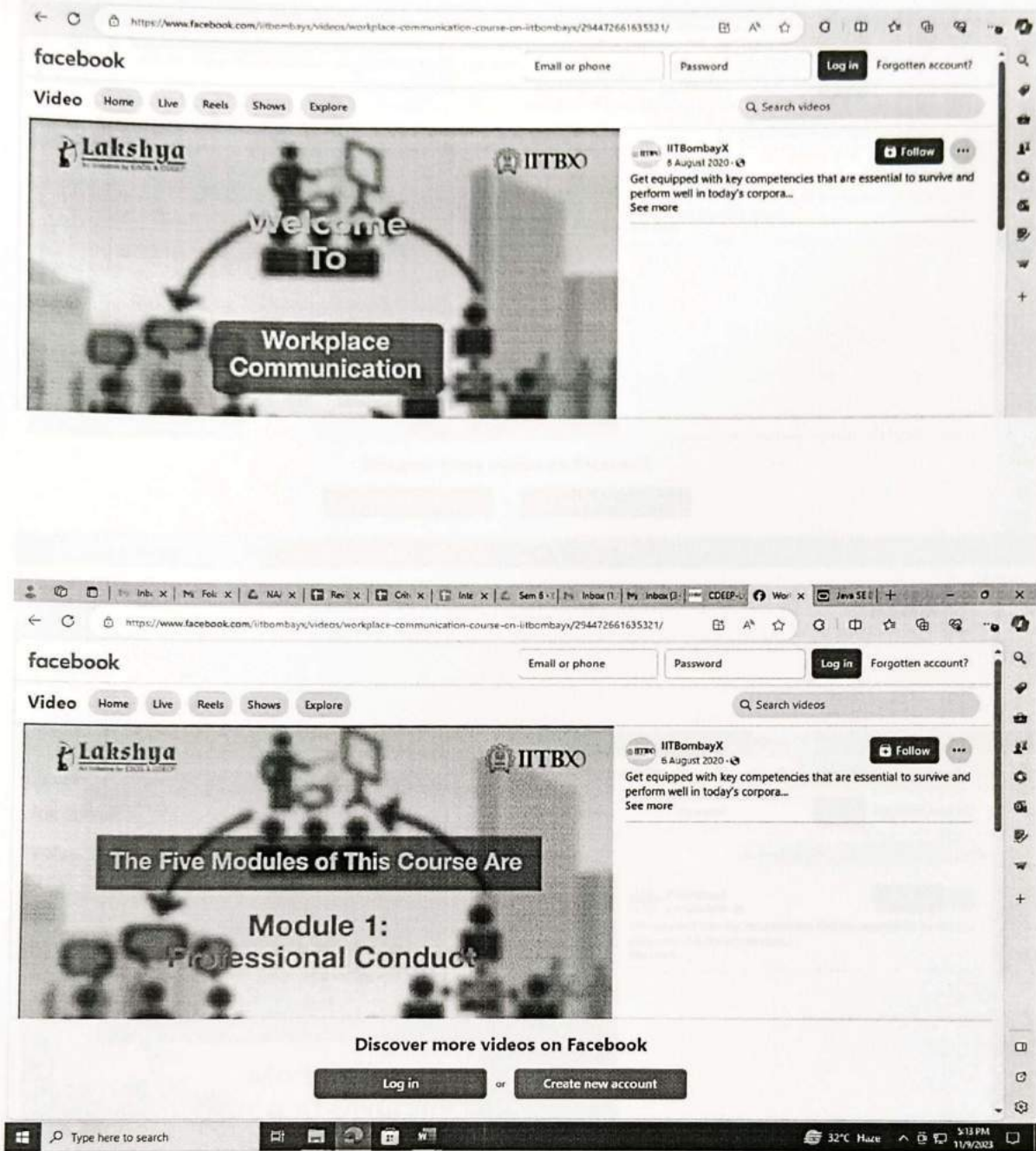
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Facilitator profile	IT engineers with experience in application development
Working date	25.12.18 to 20.01.2019
Duration	4 weeks
Workshop time	-----
Venue	Computer Center
Workshop material to be provided to students	
Registration fee	-----
Requirements/Resource's	Projector


HEAD

Dept. of Information Technology
Vidyavardhini's College of
Engineering and Technology.
Vasai Road 401 202.

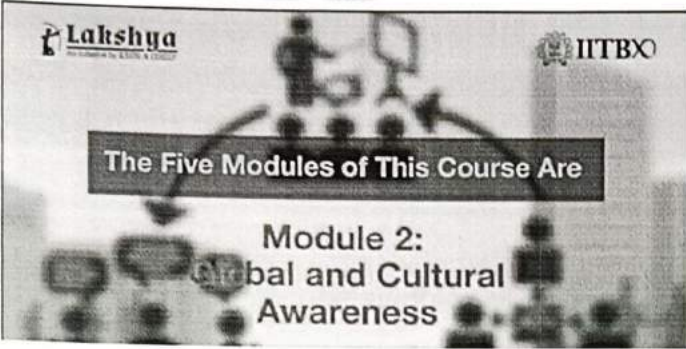




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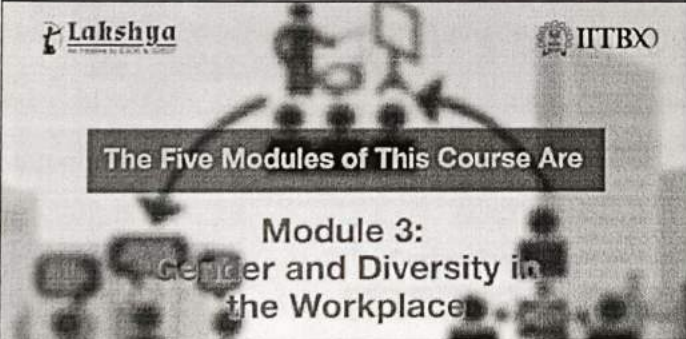
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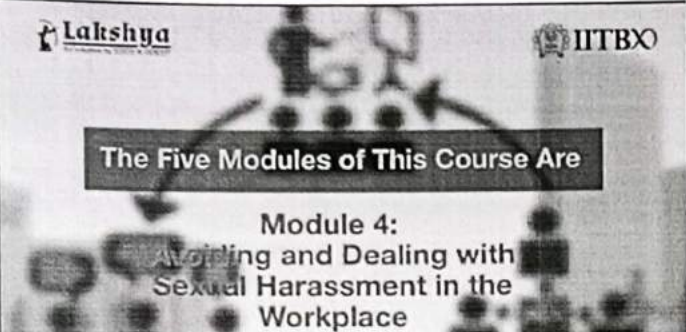
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- ✓ Learn more than 18 professional disciplines
- ✓ Plan, design and code robust and fully custom, responsive websites and applications
- ✓ Code at an expert level of proficiency with HTML & CSS
- ✓ Code basic games & animations with CSS3 and jQuery

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134_Ultimate web designer and developer course (Udemy)

https://education.oracle.com/oracle-certified-associate-java-se-8-programmer/tracks_333

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- OCP

Oracle Certified Associate, Java SE 8 Programmer Certification Overview

This CHS certification is available to be taken online for Taiwan.

The Java SE 8 Oracle Certified Associate (OCA) certification helps you build a foundational understanding of Java, and gaining this certification credential is the first of two steps in demonstrating you have the high-level skills needed to become a professional Java developer.

Steps to Become an Oracle Certified Associate (OCA) Java SE 8 Programmer

Step 1: Prepare to take the required OCA exam by taking beginner and intermediate Java SE 8 training and gaining practical, hands-on experience.

Step 2: Take and pass the Java SE Programmer I exam (1Z0-808).

In order to be a Professional Java Developer, candidates need the skills covered in both exams Java SE 8 Programmer I and Java SE 8 Programmer II. Learn more about how to progress to the next level, the requirements to earn the OCP credential, and the benefits to getting Oracle Java certified.

Looking to Get Ahead in Your Career by Getting Certified in Java SE 11?

Gain the knowledge and skills to leverage the new features of Java SE 11 and prove your expertise to get ahead of the competitive job market by preparing for and earning your OCP Java SE 11 Programmer credential. Learn more about the Java SE 11 certifications available and available training to prepare.

Oracle Certified Professional, Java SE 11 Developer certification path