Criteria Number: 1 **Criteria Name:** Curricular Aspects

Sub criteria Number: 1.3.1 **Sub-criteria Name:** Curriculum Enrichment

The Institute addresses cross-cutting problems such as Gender, Environmental Sustainability, Human Values, and Professional Ethics through its curriculum and the activities of various committees.

Supporting Documents

Sr. No.	Cross Cutting Problems	Particulars	Details	Link
1.	Gender	Activities	National Girl Child Day	Supporting Documents
			Extempore	Supporting Documents
			Leadership Event	Supporting Documents
			Mixed Gender Groups in Major/Mini Project	Supporting Documents
			Raise the voice	Supporting Documents
			Women Empowerment Cell Activities	Supporting Documents
2.	Environment & Sustainability	Courses	T.E. (Artificial Intelligence and Data Science)-Internet of Things T.E. (Computer Science Engineering and Data Science)-Internet of Things	Supporting Documents
			B.E. (All Branches)-Environmental Management	Supporting Documents
			B.E. (All Branches)-Energy Audit and Management	Supporting Documents

			B.E. (All Branches)-Disaster Management and Mitigation Measure	Supporting Documents
			B.E. (Mechanical Engineering)-Renewable Energy Systems	Supporting Documents
			B.E. (Civil Engineering)-Solid Waste Management	Supporting Documents
			B.E. (Civil Engineering)-Industrial Waste Treatment	Supporting Documents
		Activities	Beach Cleaning	Supporting Documents
			Say No to Plastic- Beyond Campus Activity	Supporting Documents
			Dam Building Activity	Supporting Documents
			Energy Conservation Week	Supporting Documents
			Environment Awareness	Supporting Documents
			Rainwater Harvesting	Supporting Documents
			Tree Plantation	Supporting Documents
3.	Human Values	Courses	T.E. (All Branches)-Project Management	Supporting Documents
		Activities	NSS Camp Activities	Supporting Documents
4.	Professional Ethics	Courses	T.E. (All Branches)-Business Communication and Ethics	Supporting Documents

			T.E. (Computer Engineering)-Cryptography And System Security TE(Artificial Intelligence and Data Science)-Cryptography And System Security TE(Computer Science Engineering and Data Science)-Cryptography And System Security	Supporting Documents
			B.E. (All Branches)-Professional Ethics and Corporate Social Responsibility	Supporting Documents
			B.E. (All Branches)-Cyber Security and Laws	Supporting Documents
			B.E.(Computer Engineering)-Digital Forensics	Supporting Documents
			B.E. (Civil Engineering)-Entrepreneurship Development and Management	Supporting Documents
		Activities	Professional Body Activities	Supporting Documents
			Plagiarism Software	Supporting Documents

Vidyavardhini's College of Engineering & Technology

K. T. Marg, Near Railway Station, Vasai Road(W), Dist. Palghar, Pin. 401202

National Girl Child Day

Activity Report

Academic Year	2021 - 22
Title of the activity	National Girl Child Day
Date of the activity	24 - 01 - 22
Description of the activity	A campaign was conducted on the occassion of National Girl Child Day.
Venue of the event	VCET
Organizing committee	NSS VCET
Number of participants	34

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology
K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2021-22)

Date:- 24th January, 2022

To,
The Principal
VCET.

Subject: Report on National Girl Child Day, 24th January 2022

A world without girls is as impossible as a world without water. The world could come to a standstill without the existence of girl child. So for that a campaign was conducted by NSS Committee of Vidyavardhini's College of Engineering and Technology, Vasai(w) on 24th of January on the occasion of National Girl Child Day. The main objective of this initiative was to motivate society to feel proud to be parents of a girl child, which will eventually help in dealing with the problems arising out of gender imbalance.

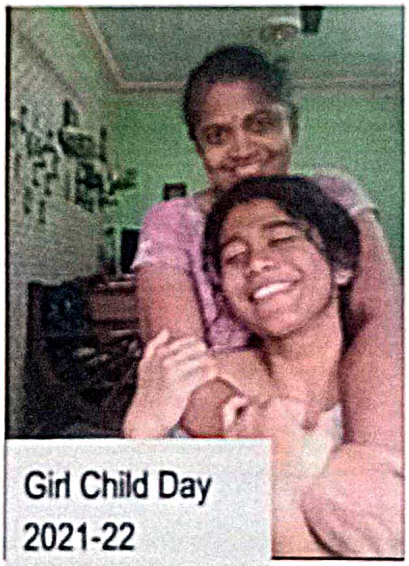
As to promote the feeling of pride for being a parent of a girl child, participants were asked to share their selfies or short videos with their daughters. The "Selfie With Daughter" campaign is closely linked with the "Beti Bachao, Beti Padhao" programme, which aspires to raise public and political awareness for the rights and needs of girls. Certificates were also provided to the participants.

In this campaign not only students but faculty and other staff members also enthusiastically participated by sharing pictures with their daughters. Students along with faculty members participated in this campaign.

Thank You,

Dr.Pradip Gulbhile
Programme Officer
NSS

Girl Child Day
2021-22



Girl Child Day
2021-22

P.O. NSS

NSS

Vidyavardhini's College of Engineering &Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

Sr. No.	Name	Year
1	Deepali Kothari	SE
2	Siddhi Jangam	SE
3	Onkar Suryavanshi	SE
4	Jay Prajapati	SE
5	Om Tiwari	SE
6	Shikhar Mehta	SE
7	Janvi Chavan	SE
8	Kshitij Patil	SE
9	Sneh Dave	SE
10	Vrushti Sanghavi	SE
11	Urvashi Patel	SE
12	Rohit Redekar	SE
13	Omkar Jadhav	SE
14	Sanskruti Kokare	SE
15	Prajakta Borse	SE
16	Sanika Patil	SE
17	Radha Vishwakarma	SE
18	Jidnyasa Patil	SE
19	Vaishnavi Deokar	SE
20	Aayush Jha	SE
21	Pallavi Thakur	SE
22	Niharika Das	SE
23	Samarth Mane	SE
24	Hrushikesh Shetty	SE
25	Deeksha Shetty	SE
26	Khanjan Joshi	SE
27	Pratham Ingawale	SE
28	Siddhi Kolwankar	SE
29	Naman Annadate	SE
30	Aditi Bhat	SE
31	Riya Raut	TE
32	Ragini Nair	TE
33	Urmiksha Tawade	TE
34	Sushant Shetty	TE

Click here for summary page

Literati - The Literary Club

Vidyavardhini's College of Engineering and Technology, K.T.Marg,
Vasai(W) – 401202

Report on Extempore

EXTEMPORE REPORT

The Literati Club organised a virtual event named "Unscripted- Extempore competition" A platform for students to showcase their creativity and oratory skills. Extempore is an event where the participants are given a topic on the spot and they are expected to deliver a speech on the same. Participants are judged on their oratory and knowledge regarding to the topic. Apart from this, participants were also judged on their preparedness for a topic they heard only a few seconds before. The event was held on 22nd March 2021 being the first event of the Literature Fest. It was held on Google meet and streamed live on YouTube 3.00pm onwards. The hosts for the event were Riya Raut from SE INSTRU and Shivani Kamble from SE EXTC. There were in all 18 participants from every department who participated in this competitive event. The judges for the event were Mr. Dinesh Goswami, English professor and Mr. Vijay Pawar, Vice principal, LJNJ College. The runner up of the event was Omkar Chaudhari from BE EXTC and the Winner of the event was Sweety Singh from TE IT.

Ms. Swati Varma

(Staff In-Charge)

Literati - The Literary Club

Vidyavardhini's College of Engineering and Technology, K.T.Marg,
Vasai(W) – 401202

Extempore Participants

1) Manthan Sarfare (SE-IT)
2) Insha Mulla (SE-IT)
3) Sakshi Sankhe (FE-IT)
4) Vaibhav Mishra (FE-EXTC)
5) Diksha Mulik (FE-AI)
6) Omkar Chaudhari (BE-EXTC)
7) Aditya Joshi (FE-DS/CSE)
8) Kirtika S Iyer (FE-DS/CSE)
9) Siddhi Kolwankar (FE-IT)
10) Pinanshu Surve (FE-EXTC)
11) Muazzam Attar (TE-MECH)
12) Heemali Save (BE-IT)
13) Aayush Jha (FE-DS/CSE)
14) Hardik Yewale (TE-IT)
15) Riddhi Garudkar (FE-EXTC)
16) Nishmi Amin (TE-IT)
17) Brijesh Shukla (BE-EXTC)
18) Sweety Singh (TE-IT)

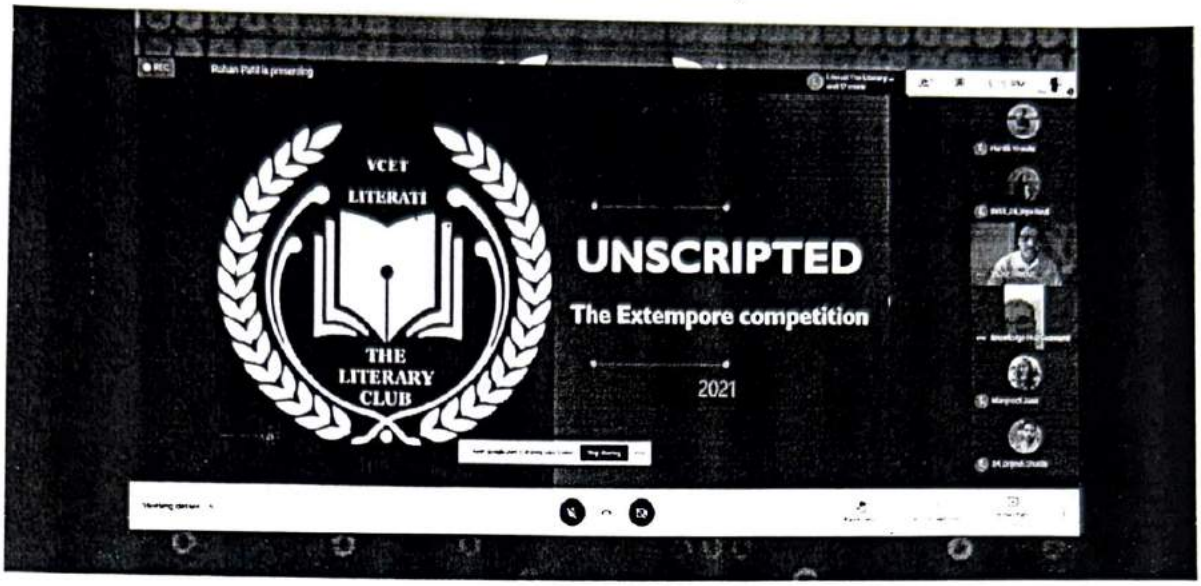
Ms. Swati Varma

(Staff In-Charge)

Literati - The Literary Club

Vidyavardhini's College of Engineering and Technology, K.T.Marg,
Vasai(W) – 401202

Event Name: Extempore



Literati - The Literary Club

Vidyavardhini's College of Engineering and Technology, K.T.Marg,
Vasai(W) – 401202

Event Name: Extempore

Click here for summary page

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

Report on Leadership Event

08/03/2023

To,
Dr. Dipti Joshi
Founder, MD - Institute of Educational Leadership (IEL),
Founder MD - Finezt Finance Consultancy Pvt Ltd.
Mumbai.

Subject: Invitation as a Guest Speaker

Dear Madam,

It is an honour & privilege to invite you as an esteemed speaker for guiding our students and faculty through the session 'Leadership, Innovation and Gender Constraint' on 10th March 2023 at 4.30 pm

We believe that your rich experience as an entrepreneur, researcher, educationist and, philanthropist will be of greatly benefit us.

thanks and regards

Dr. Megha Trivedi
Presiding Officer, ICC

Dr. Madhavi Waghmare
Convenor, IIC

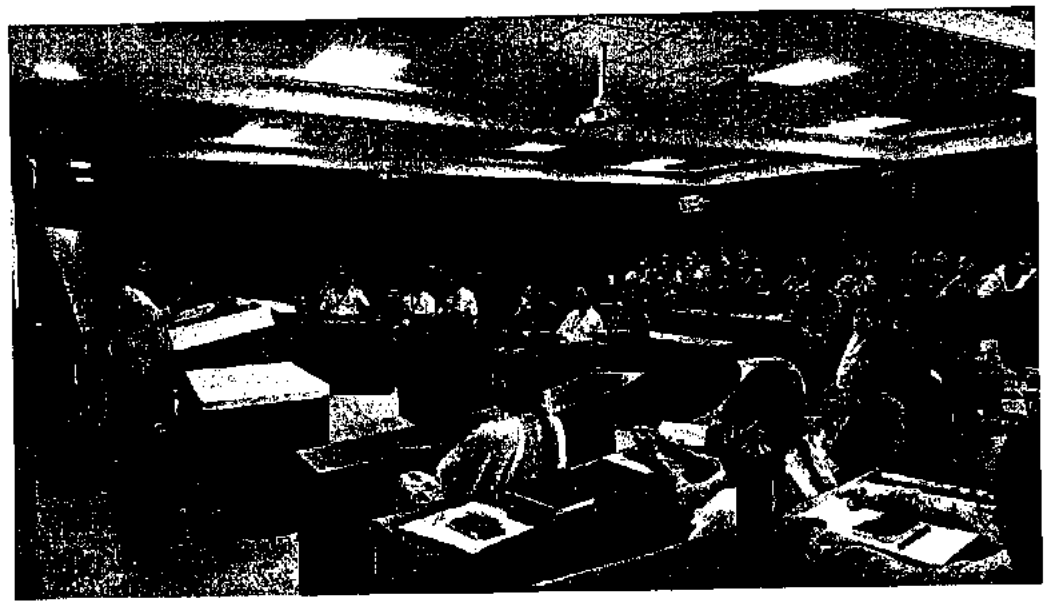
Dr. Harish Vankudre
Principal

Vidyavardhini's College of Engineering & Technology

K. T. Marg, Near Railway Station, Vasai Road(W), Dist. Palghar, Pin. 401202

Internal Complaint Committee

Photographs:



Vidyavardhini's College of Engineering & Technology

K. T. Marg, Near Railway Station, Vasai Road(W), Dist. Palghar, Pin. 401202

Internal Complaint Committee

Program	Awareness Program
Title	Leadership, Innovation and Gender Constraint'
Duration	10th March 2023. 4.30 pm -5.30 pm
Organized by	Internal Complaint Committee
Resource Person	Dr. Deepti Joshi, Founder, MD - Institute of Educational Leadership (IEL), Founder MD - Finezt Finance Consultancy Pvt Ltd.
Description	The session started with an welcome address by ICC Preceding Officer, Dr. Megha Trivedi The key points discussed during the session were: • Position of women in ancient India • Strengths of women • Gender biasedness prevailing in society • Increasing role of women in policy making • Women leadership in global scenario • Role of women in crisis management
No. of participants	59
Report prepared by	Dr. Megha Trivedi Presiding Officer, ICC, VCET
Sign. with Date	17/03/2023

Sr No	Name	Dept
34	[illegible]	MECH
35	[illegible]	Instru
36	[illegible]	"
37	[illegible]	"
38	Janisa P	CSEDS
39	Sneha M. Yadav	AI & DS
40	Priti S Vairagi	MECH
41	Carmelita Dabre	CSEDS
42	Ms. Bhakti Jadhav	AI DS
43	Mrs. Komal Champanerkar	CSEDS
44	Ms Kshitija Gharat	AI & DS
45	Sainath Patil	IT
46	Dr. Suraj Vishwakarma	FE (Physics)
47	Ambuj Tiwari	FE (Physics)
48	Dipak Choudhari	Mech
49	Dr. Ashish Chaudhari	Mech
50	Dr. Ashutosh Wadekar	Civil
51	Dr. Madhukar Waghmare	INFT
52	Viren B. Chandanshive	Civil
53	Mr. Jaydeep B. Chongale	Civil
54	Sanjay Lokal	Mech
55.	Vinay D. Patel -	Mech
56.	Rahul Krishna	Mech
57	Mane U. M.	Mech.
58	Avantika P.	Mech
59	Mamta Mate	Mech

10/03/2023 Leadership, Innovation & Gender Constraint

By Dr. Deepti Joshi. Organised by IIC & ICC.

Sr.	Name	Branch	Sign.
1	Dr. Megha Trivedi	Comp.	
2	Ms. Sonarkar L.V.	FE	
3	Shah Pracheé	FE	
4	Aishwarya Patil	Civil	
5	Payal Kadam	Civil	
6	Ekta Naik	EXTC	
7	Sandhya Supalkar	EXTC	
8	Ishwini Katkar	—	
9	Dr. Sunayana Jadhav	EXTC	
10	[illegible]	EXTC	
11	Aarti Puthran	Comp	
12	Sneha Mhatre	Comp	
13	Smita Jawale	Comp	
14	Donil Almeida	FE	
15	Shobhana S Shirsat	FE.	
16	Kamini More	FE	
17	Pandey Sushma	FE	
18	Dr. Swapna Borse	Comp	
19	Shreya Sankhe	FE	
20	Neha N. Raut	AIDS	
21	VIKRANT KOTHARI	CIVIL	
22	Asbaz Kazi	CIVIL	
23	Dr. Dinesh Patil	Comp	
24	Ganesh Wakir	Mech	
25	Tushar Kumar D. Raut	Mech	
26	Gaurav Bhande	Mech	
27	Mukund kavekar	Mech	
28	Kamlesh Bachka.	Mech	
29	Dr. Tatwadarshi P.N.	Comp	
30	Mr. Vikram [illegible]	[illegible]	
31	Mr. Swapnil. R. Mane	Mech	
32	Ms. Ankita Mane	FE	
33	Ms. Praiza Gonsalves	FE	
	Ms. Beauty Ahuja	FE	

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

Mix Gender Groups in Major/Mini Projects

Academic Year 2022-23

Date: 21/04/2022

Class: BE

Major Project List

Sr. No.	Student Name	Project Title	Supervisor Name
1	Sharvin Dedhia Pritish Mair Soham Waghmare	Tax Tracker using Block chain	Dr. Tatwadarshi N.
2	Harshil Patel Omkar Ghanekar Omkar More	Game development using Virtual Reality	Mr. Vikrant Agaskar
3	Prachi Patil Sakshi Raul Dhanisha Raut	Hate Speech Detection using ML & Text Analysis	Dr. Tatwadarshi N
4	Yash Patil Nidhi Karulkar, Ruchali Mhatre	Audio-in Audio Steganography	Anil Hingmire
5	Sanyukta Patil Lavina Rathod Nitheesh Nulal	Electronic Harmonium Player	Mr. Vikrant Agaskar
6	Atul Mishra Kritika Khandelwal Shreyash Seth	Breast Cancer Detection using ML	Dr. Swapna Borde
7	Anmol Prajapat Varun Surti Jugal Salaria	Drug Control System using Blockchain	Mr. Vikrant Agaskar
8	Ayushi Butani Nidhi Mehta	Crop Disease prediction using Machine Learning	Mr. Anil Hingmire

	Dinesh Lakshman		
9	Maruti More Manish Nayak Sanidhya Raut	Fake product detection using block chain	Mr. Anil Hingmire
10	Reetu S. Awasthi Shriya S. Chitre, Subin P. Santhosh	Software Piracy Protection System	Mrs. Swati Varma
11	Nagesh Virkar Chinmay Kargutkar Pillai Venkatesh	Securing IOT Data using Video Steganography	Dr. Dinesh Patil
12	Samiksha Rawool Yuga Vasaikar Neha Vijaykumar	Shopping Spree	Mrs. Swati Varma
14	Altaj A. Virani Rakesh R. Yadav Prachi V. Sonawane	Automatic Question Answer Generation	Mrs. Smita Jawale
15	Adarsh Dubey Suyash Shingte Muhammed Shahid Siddiqui	Crowd funding using Block Chain for startups and investors	Mr. Sanket Patil
16	Riya R. Shetye Mrunmai S. Gawde Amisha G. Prabhu	Forensic face sketch construction and recognition	Dr. Megha Trivedi
17	Mohit Singh Sarvesh Kale Avdhoot Jadhav	ML and Block chain based SCM	Dr. Megha Trivedi
18	Prashant Karande Rutvik Kulkarni Ruchika Kumbhar	Virtual memory application for Dementia patients	Mrs. Smita Jawale
19	Vidit Sheth	Customized Analytical Dash Board	

	Omkar Naik Kaustubh Pandit		Mr. Sanket Patil
20	Vaishnav Kanhirathingal, Adil Khan, Vaibhav Kharat	GAME – STREAM	Dr. Megha Trivedi
21	Chinmay Sonawane Mankrit Singh Chandan Patil	Object Detection using ML in game IOT	Dr. Swapna Borde
22	Shantanu Gonaka Shradha Sankhe Suyash Satam	Augmented Reality in Shopping	Mr. Sunil Katkar
23	Sharad Billava Manas Mhatre Nitish Tiwari	2D to 3D image	Mrs. Sneha Mhatre
24	Shivam Sawant Darsh Thakor Dhruv Khandelwal	Bike Rider Curvature/angle/Speed System	Mr. Sunil Katkar
25	Khushi H. Shah Neha R. Rasal	Demand Forecasting in Retail Industry for Medicines	Mrs. Sneha Mhatre
26	Ankit Nakhale, Bhavin Pandya Mayank Rokade	Liver Patient Analysis using ML	Dr. Swapna Borde

HEAD
Dept. of Computer Engg.,
Vidyavardhini's College of
Engineering and Technology,
Vasai Road 401 202

COMP Engg.

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Vidyavardhini's College of Engineering & Technology

K. T. Marg, Near Railway Station, Vasai Road(W), Dist. Palghar, Pin. 401202

Raise Your Voice

Activity Report

Academic Year	2022-23
Title of the activity	RAISE YOUR VOICE
Date of the activity	23/02/2023
Description of the activity	NSS COMMITTEE HOSTED ANNUAL ELOCUTION COMPETITION UNDER THE THEME OF "G20 SUMMIT"
Venue of the event	VCET
Organizing committee	NSS
Number of participants	48

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Date – 23th February, 2023

To,
The Principal,
VCET

Subject: Raise Your Voice

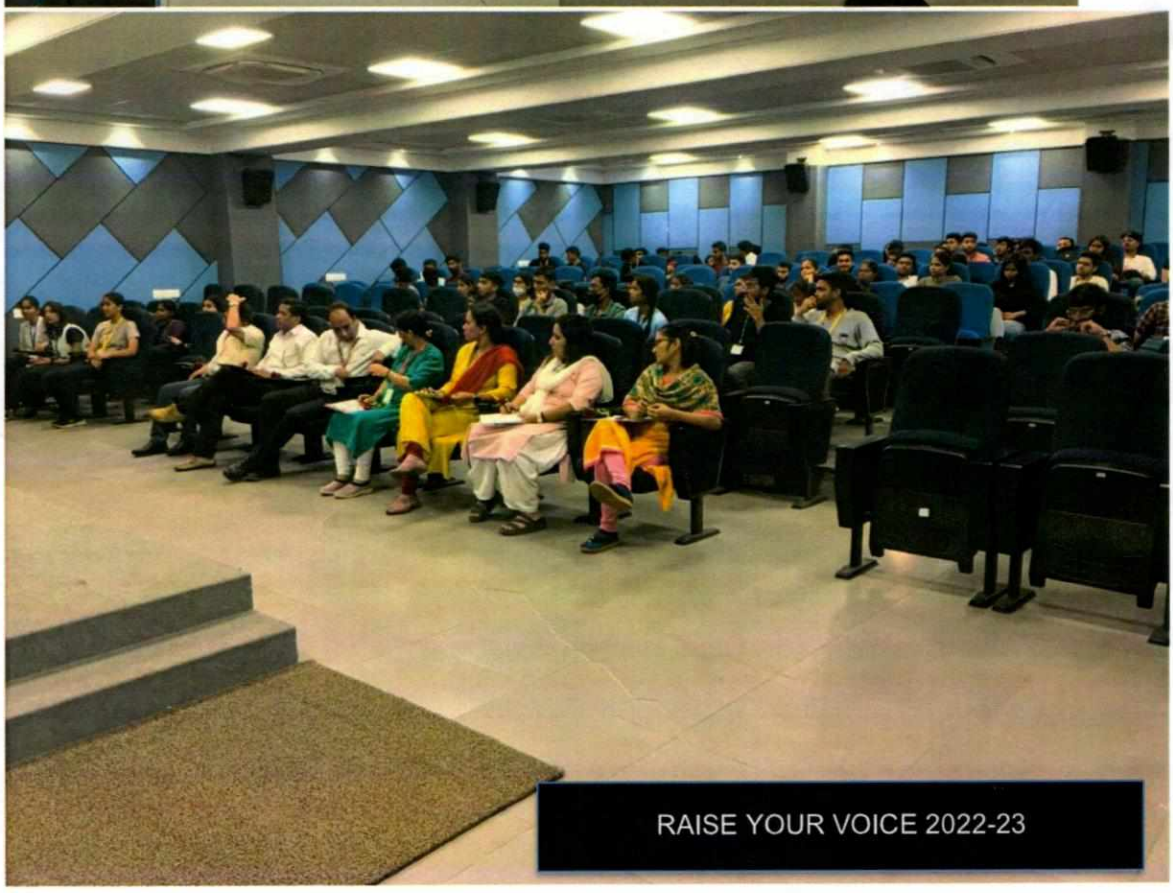
The VCET NSS Committee successfully hosted its annual Elocution Competition on February 23rd, 2023, under the theme of "G20 Summit." The event aimed to provide a platform for students to showcase their public speaking skills and engage in thoughtful discussions on Vasudhaiva Kutumbakam.

This year's theme for the competition is the "G20 Summit," a topic of global significance. Participants had a maximum of 7 minutes to eloquently present their thoughts on Vasudhaiva Kutumbakam in English representing their department. It was an excellent opportunity for our students to showcase their public speaking skills and engage in meaningful discussions.

The winner of the competition was Mitali Rawat and runner up was Harsh Solanki Shimpi and were awarded with exciting cash prizes. To ensure fair representation, one participant from each department will be selected by their respective Heads of Department. We anticipate active participation from our students, making this event a great success.

Thank you.

Dr.Pradip Gulbhile
Program Officer
NSS



RAISE YOUR VOICE 2022-23

Vidyavardhini's College of Engineering & Technology
K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

RAISE YOUR VOICE

SR NO	NAME	YEAR
1	Krish Vaity	TE
2	Harsh Sharma	TE
3	Deekha Shetty	TE
4	Chetan Jawale	BE
5	Janvi Chavan	TE
6	Siddhi Jangam	TE
7	Prinshi Jha	TE
8	Urvashi Patel	TE
9	Vrushti Sanghvi	TE
10	Riya Dutta	TE
11	Vedant Chaskar	TE
12	Prerna Gawali	TE
13	Pratham Ingawle	TE
14	Archa Jadhav	TE
15	Prerna Kanekar	TE
16	Nikita Mundaye	TE
17	Shubham Nakashe	TE
18	Kshitij Patil	TE
19	Bhupeksha Patil	TE
20	Sanika Patil	TE
21	Jay Prajapti	TE
22	Rohit Redekar	TE
23	Suyash Shelar	TE
24	Durvesh Karjekar	SE
25	Vinayak Deore	SE
26	Harshal Bhamre	SE
27	Prachi Shah	SE
28	Shruti Pawar	SE
29	Gauravi Patankar	SE
30	Raghvendra Devadiga	SE
31	Soham Dahanukar	SE
32	Suryanarayan Choudhury	SE
33	jagruti Borse	SE
34	Isha Kshatriya	SE
35	Tejal Mendhe	SE
36	Prathamesh Mayekar	SE
37	Rutuja Mestry	SE
38	Sahil Kulabkar	SE
39	Sayali Gupta	SE
40	Vaishnavi Gaikwad	SE
41	Amey Chaudari	SE
42	Vipul Bhoir	SE
43	Nishant Bhandigare	SE
44	Parth Baradia	SE
45	Ankita Bhosle	SE
46	Ragini Nair	BE.
47	Prathamesh More	BE
48	Ankur Saha	BE

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NSS P.O.

HRUSHIKESH SHETTY
NSS LEADER

DEEKSHA SHETTY
UDAAN PRESIDENT

Vasavardhini's College of Engineering & Technology Women Empowerment Committee (WEC)

Date: 05-03-2021

Report on Women Empowerment Cell Activities

To

The Principal

VCET, Vasai(w)

Subject: - Permission to organize an Interactive Session on 'Manifestation of Women'

Respected Sir,

On the occasion of Women's Day, the Women Empowerment Committee of VCET wishes to organize an Interactive Session on **'Manifestation of Women'** for faculties and students (girls) of all departments on 08/03/2021, Monday at 12:00 p.m. The session will be addressed by Squadron Leader (Retd) Supriya Chitre, Director of Udaan Foundation. The audience will be highly benefited by this session.

We, therefore, request you to grant us the permission for the same

Thanking you,

Yours Sincerely,

Mrs. Neha Gharat
(Chairperson, WEC)

Dr. Amrita Ruperee
(Dean, Student Affairs)

Permitted
5/3/2021.

Seminar on "Manifestation of Women"

INTRODUCTION:

The "**Women Empowerment Committee**" of VCET has been a proud host of numerous informative seminars and workshops over the past few years. It has always been praised by professors, students, principal sir, guest speakers and many others. This year on the occasion of **International Women's Day (08 March, 2021)**, the WEC organised its second virtual session on "**Manifestation of Women**" via YouTube live stream in order to make women realize the power in feminine energy.

The seminar was addressed by our honourable guest **Ms. Supriya Chitre** (A Retired Squadron Leader and the Founder and Director of Udaan Foundation, Nashik). She was commissioned in the education branch of the Indian Airforce in 2007. She has pursued her post graduate degree in Clinical psychology from S.P. college Pune and has studied Business Management from IIM Indore. She has also been an NCC cadet of 1Mah (Airwing). Being an educationist and psychologist by profession she has had a fruitful tenure of 10 years in the Indian Air force and has served in the National Defence Academy as a psychologist, counsellor, and instructor.

OBJECTIVE:

The target audience were women who aim to make life-determining decisions owing to different problems they face in the society. A significant number of women face pressure to choose between work and family life, rather than being encouraged to pursue their passion and lead life independently.

The objective of this seminar was to empower women who seek access to opportunities without any limitations or restrictions such as in education, profession and in their way of life. Perhaps feeling entitled to make your own decisions creates a sense of empowerment.

EXECUTION:

The session commenced at 12pm IST with a brief introduction and acknowledgement of our guest speaker followed by a one-on-one QnA session with an attempt to make the webinar interesting and interactive, thereby guiding the aspiring minds with some exemplary thoughts. The session focused on feminine traits namely vision, creation and intuition that allow us to create the blue print for building the self-fulfilled life we want to lead. The speaker motivated

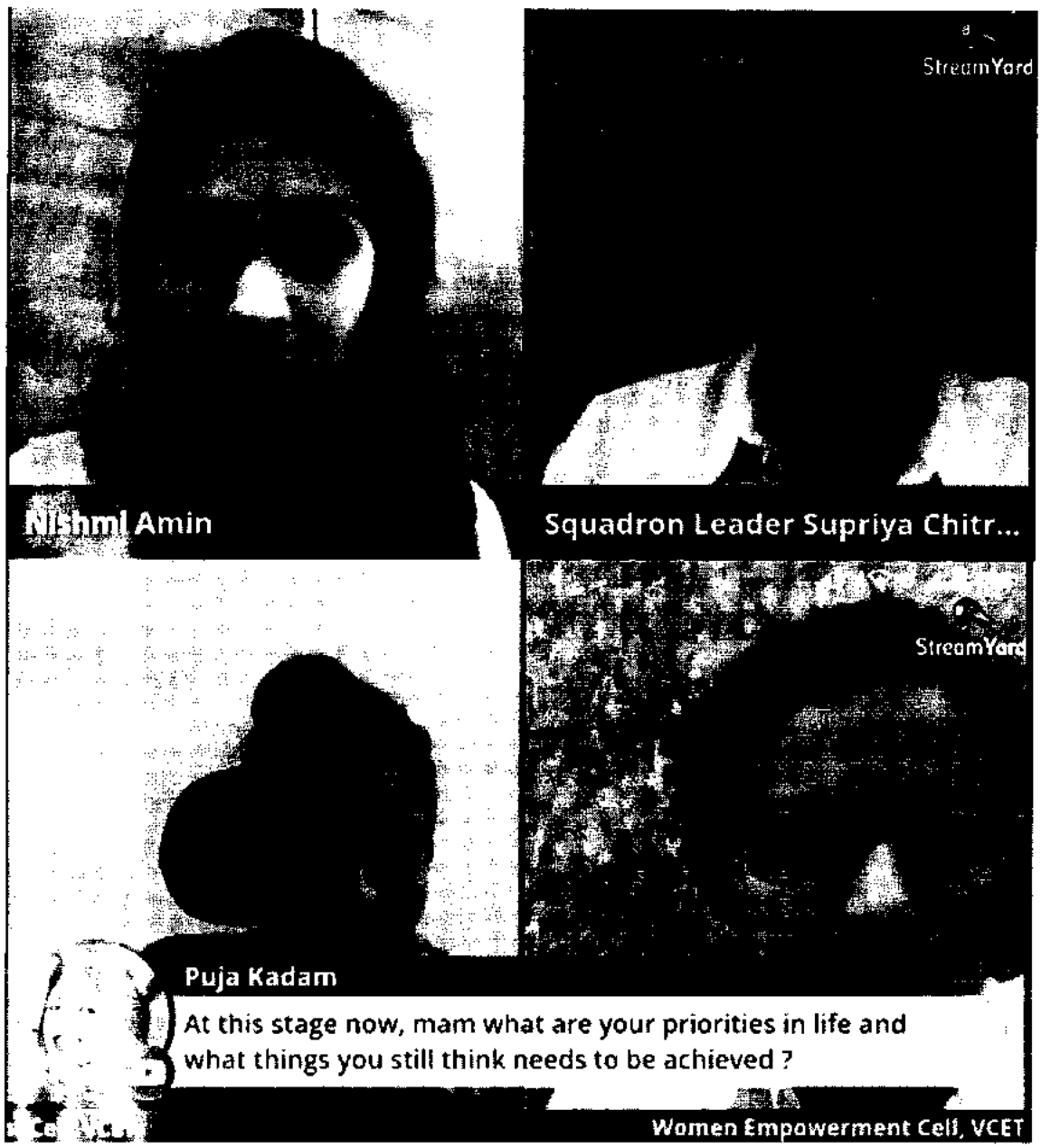
women by reassuring that women are a pool of talented, trained resources that should be utilized to advance every organization. In fact, utilizing women to the fullest of their abilities is not a cost but an investment. The speaker also suggested that women need to be aware not only of their own growth, but that of those around them and also educated the audience on various career opportunities as a woman in the field of armed forces.

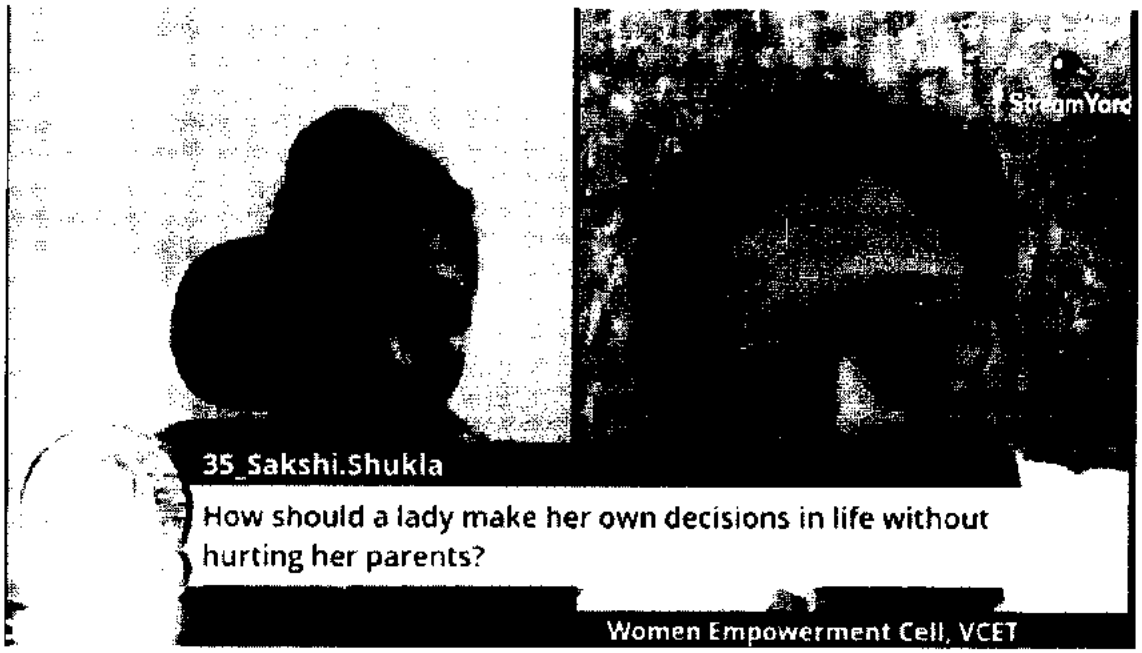
The following questionnaire was addressed by our speaker in the session:

1. Who inspired you to take up this career and why?
2. How old were you when you decided to join IAF and were there any objections from your family, peers for a woman to take such a bold decision?
3. The recent debate about the entry of women officers in the armed forces has been highly ill- informed and subjective in nature. So how does the recruitment and selection process take place now?
4. What is the preparation required to join defence forces? Also, what is the minimum qualification required?
5. Are there any misconceptions or myths that you would want to clear regarding the scope of women in this field?
6. You were an education officer in IAF. So, what was your work profile and what are the different portfolios in defence?
7. Well, as we all know how important one's mental health is, so are there any measures taken for the well-being of our officers?
8. How would you like to describe your experience in the National Defence Academy? And, as a female leader, what has been the most significant barrier in your career?
9. Can you tell us more about your very own organisation UDAAN and the other initiatives taken for empowering girls?
10. What are some of the advices you would like to share with young women entering a male-dominated profession?

The webinar received an exceptional response of 500+ viewers who were extremely co-operative and attentive. The real-life experiences shared by the speaker instilled in all an empowering drive to succeed without any fear or limitation.

SNAPSHOTS OF THE EVENT:


StreamYard
Nishmi Amin
Squadron Leader Supriya Chitr...
StreamYard
Puja Kadam
At this stage now, mam what are your priorities in life and what things you still think needs to be achieved ?
Women Empowerment Cell, VCET


StreamYard
35_Sakshi.Shukla
How should a lady make her own decisions in life without hurting her parents?
Women Empowerment Cell, VCET

WEC Report 2020-21

MANTRA: "Empowered Women Empower Women."

The **Women Empowerment Committee** was formed in V.C.E.T. to create a gender friendly environment and address the issues faced by the women staff and students. The WEC committee has had a blooming year as there were a good deal of events taken place.

The **"Women Empowerment Committee"** of VCET has been a proud host of numerous informative seminars and workshops over the past few years. It has always been praised by professors, students, principal sir, guest speakers and many others.

This year as well, amidst the pandemic, The WEC decided to virtually organise an interactive session on **"Women leadership and Work Life Balance"** via live streaming on YouTube for motivating women and guiding them.

The seminar was addressed by our honourable guest Dr. Dipti Joshi. (BE, PGDFM, MA Eco, MA Edu, PhD). She is a Researcher, Educationalist, Entrepreneur, Investor, Groomer, Philanthropist and has been appreciated with several awards throughout her journey.

Seminar aimed to give insight into each woman's frame of reference regarding identity, types of relationships, personal drive and motivation and adaptive style. The seminar focused to explore and discover coping strategies, advice for preparing for the dual roles, and practical strategies for balance to see if any themes and or new discoveries emerge.

A valuable **MANTRA** to advice the youth today was shared by our guest speaker in order mark it memorable and noteworthy.

"The most effective and efficient individuals are often those who are confident in managing responsibilities in all spheres of their lives."

This year on the occasion of **International Women's Day** (08 March, 2021), the WEC organised its second virtual session on **"Manifestation of Women"** via YouTube live stream in order to make women realize the power in feminine energy.

The seminar was addressed by our honourable guest Ms. Supriya Chitre (A Retired Squadron Leader and the Founder and Director of Udaan Foundation, Nashik). She was commissioned in the education branch of the Indian Airforce in 2007

The objective of this seminar was to empower women who seek access to opportunities without any limitations or restrictions such as in education, profession and in their way of life. Perhaps feeling entitled to make your own decisions creates a sense of empowerment.

The speaker motivated women by reassuring that woman are a pool of talented, trained resources that should be utilized to advance every organization. The speaker also suggested that women need to be aware not only of their own growth, but that of those around them and also educated the audience on various career opportunities as a woman in the field of armed forces.

A success MANTRA to motivate the female youth and to instil a sense of accomplishment was shared by our guest speaker.

"Take your dreams seriously and allow yourself to radiate your feminine light."

The profound efforts of the WEC committee finally bore the sweet fruits of success and set another benchmark to work towards.

Mrs Neha Gharat
(WCE, In charge)

Vidyavardhini's College of Engineering & Technology
Women Empowerment Cell
Academic Year 2019-20

Date: 25th July 2019.

To,

The Principal

VCET, Vasai (w)

Subject: Annual Budget for WEC activities

Respected Sir,

We, the WEC committee (2019-20) have planned to organize following program in the academic year.

- A seminar for all female staff
- A seminar for all staff
- A program for all female staff(On occasion of makarsankrant)
- A seminar for students

Tentative Annual Budget for the activities to be organized by the WEC committee for the academic year 2019-20 is as under. Kindly sanction the same

Details	**Expenditure expected in Rs**	
Remuneration for the Guest Speakers	4000*4	12000/-
Refreshment Total staff refreshment cost Female staff refreshment cost Female staff refreshment cost	 120*80 85*80 85*80	 9600/- 6800/- 6800/-
Bouquets	1500	1500/-
Miscellaneous	3500	3500/-
Total		40200/-

Mrs. Neha Gharat
(Chairperson, WEC)

Mrs. Pooja Kadam
(Secretary, WEC)

Mrs. Komal Shringarpure
(Treasurer, WEC)

PROGRAM STRUCTURE FOR THIRD YEAR

UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

DEPARTMENT OPTIONAL COURSES

Department Optional Courses	**Semester**	**Code & Subject**
Department Optional Course -1	V	CSDLO5011 : Statistics for Artificial Intelligence & Data Science CSDLO5012: Advanced Algorithms CSDLO5013: Internet of Things
Department Optional Course -2	VI	CSDLO6011 :High Performance Computing CSDLO6012: Distributed Computing CSDLO6013: Image & Video processing

Course Code	Course Name	Credit
CSDLO5013	**Internet of Things**	03

Course Objectives: To understand Internet of Things (IoT) Characteristics and Conceptual Framework

1. To comprehend Characteristics and Conceptual Framework of IoT
2. To understand levels of the IoT architectures
3. To correlate the connection of smart objects and IoT access technologies
4. To Interpret edge to cloud protocols
5. To explore data analytics and data visualization on IoT Data
6. To explore IoT applications

Course Outcomes: Learner will be able to

1. Describe the Characteristics and Conceptual Framework of IoT
2. Differentiate between the levels of the IoT architectures
3. Analyze the IoT access technologies
4. Illustrate various edge to cloud protocol for IoT
5. Apply IoT analytics and data visualization
6. Analyze and evaluate IoT applications

Prerequisite:

1. Python programming
2. C programing language
3. Computer Networks

DETAILED SYLLABUS:

Sr. No.	Module	Detailed Content	Hours
1	**Introduction toIoT**	Introduction to IoT- Defining IoT, Characteristics of IoT, Conceptual Framework of IoT, Physical design of IoT, Logical design of IoT, Functional blocks of IoT, Brief review of applications of IoT. Smart Object – Definition, Characteristics and Trends **Self-learning Topics:** Hardware and software development tools for - Arduino, NodeMCU, ESP32, Raspberry Pi, for implementing internet of things, Simulators- Circuit.io,Eagle,Tinkercad	4

2	**IoT Architecture**	**Drivers Behind New Network Architectures** : Scale,Security,Constrained Devices and Networks ,Data,Legacy Device Support **Architecture :** The IoT World Forum (IoTWF) Standardized Architecture :Layer 1-7, IT and OT Responsibilities in the IoT Reference Model,Additional IoT Reference Models A Simplified IoT Architecture The Core IoT Functional Stack ::Layer 1-3 , Analytics Versus Control Applications , Data Versus Network Analytics Data Analytics Versus Business Benefits , Smart Services, **IoT Data Management and Compute Stack** :Fog Computing , Edge Computing ,The Hierarchy of Edge, Fog, and Cloud **Self-learning Topics:** Brief review of applications of IoT: Connected Roadways , Connected Factory, Smart Connected Buildings , Smart Creatures etc,	7
3	**Principles of Connected Devices and Protocols in IoT**	RFID and NFC (Near-Field Communication), Bluetooth Low Energy (BLE) roles, LiFi , WPAN std : 802.15 standards: Bluetooth, IEEE 802.15.4, Zigbee, Z-wave, Narrow Band IoT, Internet Protocol and Transmission Control Protocol, 6LoWPAN, WLAN and WAN , IEEE 802.11, Long-range Communication Systems and Protocols: Cellular Connectivity-LTE, LTE-A, LoRa and LoRaWAN.	8
4	**Edge to Cloud Protocol**	HTTP, WebSocket, Platforms. HTTP - MQTT -.Complex Flows: IoT Patterns: Real-time Clients, MQTT, MQTT-SN, Constrained Application Protocol (CoAP), Streaming Text Oriented Message Protocol (STOMP), Advanced Message Queuing Protocol (AMQP), Comparison of Protocols.	8
5	**IoT and Data Analytics**	Defining IoT Analytics, IoT Analytics challenges, IoT analytics for the cloud, Strategies to organize Data for IoT Analytics, Linked Analytics Data Sets, Managing Data lakes, The data retention strategy, visualization and Dashboarding-Designing visual analysis for IoT data, creating a dashboard ,creating and visualizing alerts. **Self-learning Topics:** AWS and Hadoop Technology	7
6	**IoT Application Design**	Prototyping for IoT and M2M, Case study related to : Home Automation (Smart lighting, Home intrusion detection), Cities (Smart Parking), Environment (Weather monitoring, weather reporting Bot, Air pollution monitoring, Forest fire detection, Agriculture (Smart irrigation), Smart Library. Introduction to I-IoT, Use cases of the I-IoT,IoT and I-IoT – similarities and differences, Introduction to Internet of Behavior (IoB) **Self-learning Topics:** Internet of Behaviors (IoB) and its role in customerservices	5

Text Book

1. Arsheep Bahga (Author), Vijay Madisetti, Internet Of Things: A Hands-On Approach Paperback, Universities Press, Reprint 2020
2. David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerome Henry, IoT Fundamentals Networking Technologies, Protocols, and Use Cases for the Internet of Things CISCO.
3. Analytics for the Internet of Things (IoT) Intelligent Analytics for Your Intelligent Devices.AndrewMinteer,Packet
4. Giacomo Veneri , Antonio Capasso," Hands-On Industrial Internet of Things: Create a powerful Industrial IoT infrastructure using Industry 4.0", Packt

References:

1. Pethuru Raj, Anupama C. Raman, The Internet of Things: Enabling Technologies, Platforms, and Use Cases by , CRC press,
2. Raj Kamal, Internet of Things, Architecture and Design Principles, McGraw Hill Education, Reprint 2018.
3. Perry Lea, Internet of Things for Architects: Architecting IoT solutions by implementing sensors, communicationinfrastructure, edge computing, analytics, and security, Packt Publications, Reprint 2018.
4. Amita Kapoor, "Hands on Artificial intelligence for IoT", 1st Edition, Packt Publishing, 2019.
5. Sheng-Lung Peng, Souvik Pal, Lianfen Huang Editors: Principles of Internet of Things (IoT)Ecosystem:Insight Paradigm, Springer

Online References:

1. https://owasp.org/www-project-internet-of-things/
2. NPTEL: Sudip Misra, IIT Khargpur, Introduction to IoT: Part-1, https://nptel.ac.in/courses/106/105/106105166/
3. NPTEL: Prof. Prabhakar, IISc Bangalore, Design for Internet of Things, https://onlinecourses.nptel.ac.in/noc21_ee85/preview
4. Mohd Javaid, Abid Haleem, Ravi Pratap Singh, Shanay Rab, Rajiv Suman,Internet of Behaviors (IoB) and its role in customer services,Sensors International,Volume 2,2021,100122,ISSN 2666-3511,https://doi.org/10.1016/j.sintl.2021.100122

*** Suggestion: Laboratory work based on the above syllabus can be incorporated as amini project in CSM501: Mini-Project.**

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Program Structure for Fourth Year CSE (AIML), CSE (DS) AI&DS, DE, AI&ML

UNIVERSITY OF MUMBAI (With Effect from 2023-2024)

Department and Institute Optional Courses and Labs

Semester	**Department/ Institute Optional Courses and Labs**	**Subject and Labs**
VIII	Department Optional Course -5	CSDO8011: AI for financial & Banking application CSDO8012: Quantum Computing CSDO8013: Reinforcement Learning
	Department Optional Lab -5	CSDOL8011: AI for financial & Banking application Lab CSDOL8012: Quantum Computing Lab CSDOL8013: Reinforcement Learning Lab
	Department Optional Course -6	CSDO8021: Graph Data Science CSDO8022: Recommendation Systems CSDO8023: social media Analytic
	Department Optional Lab -6	CSDOL8021: Graph Data Science Lab CSDOL8022: Recommendation Systems Lab CSDOL8023: social media Analytic Lab
	Institute level Optional Courses-II	ILO8021: Project Management ILO8022: Finance Management ILO8023: Entrepreneurship Development and Management ILO8024: Human Resource Management ILO8025: Professional Ethics and CSR ILO8026: Research Methodology ILO8027: IPR and Patenting ILO8028: Digital Business Management ILO8029: Environmental Management

Course Code	Course Name	Credits
ILO8029	Environmental Management	03

Objectives:

1. Understand and identify environmental issues relevant to India and global concerns
2. Learn concepts of ecology
3. Familiarise environment related legislations

Outcomes: Learner will be able to…

1. Understand the concept of environmental management
2. Understand ecosystem and interdependence, food chain etc.
3. Understand and interpret environment related legislations

Module	Detailed Contents	Hrs
01	Introduction and Definition of Environment: Significance of Environment Management for contemporary managers, Career opportunities. Environmental issues relevant to India, Sustainable Development, The Energy scenario.	10
02	Global Environmental concerns : Global Warming, Acid Rain, Ozone Depletion, Hazardous Wastes, Endangered life-species, Loss of Biodiversity, Industrial/Man-made disasters, Atomic/Biomedical hazards, etc.	06
03	Concepts of Ecology: Ecosystems and interdependence between living organisms, habitats, limiting factors, carrying capacity, food chain, etc.	05
04	Scope of Environment Management, Role & functions of Government as a planning and regulating agency. Environment Quality Management and Corporate Environmental Responsibility	10
05	Total Quality Environmental Management, ISO-14000, EMS certification.	05
06	General overview of major legislations like Environment Protection Act, Air (P & CP) Act, Water (P & CP) Act, Wildlife Protection Act, Forest Act, Factories Act, etc.	03

REFERENCES:

1. Environmental Management: Principles and Practice, C J Barrow, Routledge Publishers London, 1999
2. A Handbook of Environmental Management Edited by Jon C. Lovett and David G. Ockwell, Edward Elgar Publishing
3. Environmental Management,**T V Ramachandra and Vijay Kulkarni, TERI Press**
4. Indian Standard Environmental Management Systems — Requirements With Guidance For Use, Bureau Of Indian Standards, February 2005
5. Environmental Management: An Indian Perspective, S N Chary and Vinod Vyasulu, Maclillan India, 2000

6. Introduction to Environmental Management, Mary K Theodore and Louise Theodore, CRC Press
7. Environment and Ecology, Majid Hussain, 3rd Ed. Access Publishing.2015

Assessment:

Internal:
Assessment consists of two tests out of which; one should be compulsory class test and the other is either a class test or assignment on live problems or course project.

End Semester Theory Examination:
Some guidelines for setting up the question paper. Minimum 80% syllabus should be covered in question papers of end semester examination. **In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.**

1. Question paper will comprise of total six question
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

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Course Code	Course Name	Credits
ILO7018	Energy Audit and Management	03

Objectives:

1. To understand the importance energy security for sustainable development and the fundamentals of energy conservation.
2. To introduce performance evaluation criteria of various electrical and thermal installations to facilitate the energy management
3. To relate the data collected during performance evaluation of systems for identification of energy saving opportunities.

Outcomes: Learner will be able to…

1. To identify and describe present state of energy security and its importance.
2. To identify and describe the basic principles and methodologies adopted in energy audit of an utility.
3. To describe the energy performance evaluation ofsome common electrical installations and identify the energy saving opportunities.
4. To describe the energy performance evaluation ofsome common thermal installations and identify the energy saving opportunities
5. To analyze the data collected during performance evaluation and recommend energy saving measures

Module	Detailed Contents	Hrs
01	**Energy Scenario:** Present Energy Scenario, Energy Pricing, Energy Sector Reforms, Energy Security, Energy Conservation and its Importance, Energy Conservation Act- 2001 and its Features. Basics of Energy and its various forms, Material and Energy balance	04
02	**Energy Audit Principles:** Definition, Energy audit- need, Types of energy audit, Energy management (audit) approach-understanding energy costs, Bench marking, Energy performance, Matching energy use to requirement, Maximizing system efficiencies, Optimizing the input energy requirements, Fuel and energy substitution. Elements of monitoring& targeting; Energy audit Instruments; Data and information-analysis. Financial analysis techniques: Simple payback period, NPV, Return on investment (ROI), Internal rate of return (IRR)	08
03	**Energy Management and Energy Conservation in Electrical System:** Electricity billing, Electrical load management and maximum demand Control; Power factor improvement, Energy efficient equipments and appliances, star ratings. **Energy efficiency measures in lighting system, Lighting control:** Occupancy sensors, daylight integration, and use of intelligent controllers. Energy conservation opportunities in: water pumps, industrial drives, induction motors, motor retrofitting, soft starters, variable speed drives.	10

04	**Energy Management and Energy Conservation in Thermal Systems:** Review of different thermal loads; Energy conservation opportunities in: Steam distribution system, Assessment of steam distribution losses, Steam leakages, Steam trapping, Condensate and flash steam recovery system. General fuel economy measures in Boilers and furnaces, Waste heat recovery, use of insulation- types and application. HVAC system: Coefficient of performance, Capacity, factors affecting Refrigeration and Air Conditioning system performance and savings opportunities.	10
05	**Energy Performance Assessment:** On site Performance evaluation techniques, Case studies based on: Motors and variable speed drive, pumps, HVAC system calculations; Lighting System: Installed Load Efficacy Ratio (ILER) method, Financial Analysis.	04
06	**Energy conservation in Buildings:** Energy Conservation Building Codes (ECBC): Green Building, LEED rating, Application of Non-Conventional and Renewable Energy Sources	03

Assessment:

Internal:
Assessment consists of two tests out of which; one should be compulsory class test and the other is either a class test or assignment on live problems or course project.

End Semester Theory Examination:
Some guidelines for setting up the question paper. Minimum 80% syllabus should be covered in question papers of end semester examination. **In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.**

1. Question paper will comprise of total six question
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

REFERENCES:

1. Handbook of Electrical Installation Practice, Geofry Stokes, Blackwell Science
2. Designing with light: Lighting Handbook, By Anil Valia, Lighting System
3. Energy Management Handbook, By W.C. Turner, John Wiley and Sons
4. Handbook on Energy Audits and Management, edited by A. K. Tyagi, Tata Energy Research Institute (TERI).
5. Energy Management Principles, C.B.Smith, Pergamon Press
6. Energy Conservation Guidebook, Dale R. Patrick, S. Fardo, Ray E. Richardson, Fairmont Press
7. Handbook of Energy Audits, Albert Thumann, W. J. Younger, T. Niehus, CRC Press
8. www.energymanagertraining.com
9. www.bee-india.nic.in

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Course Code	Course Name	Credits
ILO7017	Disaster Management and Mitigation Measures	03

Objectives:

1. To understand physics and various types of disaster occurring around the world
2. To identify extent and damaging capacity of a disaster
3. To study and understand the means of losses and methods to overcome /minimize it.
4. To understand role of individual and various organization during and after disaster
5. To understand application of GIS in the field of disaster management
6. To understand the emergency government response structures before, during and after disaster

Outcomes: Learner will be able to…

1. Get to know natural as well as manmade disaster and their extent and possible effects on the economy.
2. Plan of national importance structures based upon the previous history.
3. Get acquainted with government policies, acts and various organizational structure associated with an emergency.
4. Get to know the simple do's and don'ts in such extreme events and act accordingly.

Module	Detailed Contents	Hrs
01	Introduction 1.1 Definition of Disaster, hazard, global and Indian scenario, general perspective, importance of study in human life, Direct and indirect effects of disasters, long term effects of disasters. Introduction to global warming and climate change.	03
02	Natural Disaster and Manmade disasters: Natural Disaster: Meaning and nature of natural disaster, Flood, Flash flood, drought, cloud burst, Earthquake, Landslides, Avalanches, Volcanic eruptions, Mudflow, Cyclone, Storm, Storm Surge, climate change, global warming, sea level rise, ozone depletion Manmade Disasters: Chemical, Industrial, Nuclear and Fire Hazards. Role of growing population and subsequent industrialization, urbanization and changing lifestyle of human beings in frequent occurrences of manmade disasters.	09
03	Disaster Management, Policy and Administration Disaster management: meaning, concept, importance, objective of disaster management policy, disaster risks in India, Paradigm shift in disaster management. Policy and administration: Importance and principles of disaster management policies, command and co-ordination of in disaster management, rescue operations-how to start with and how to proceed in due course of time, study of flowchart showing the entire process.	06
04	Institutional Framework for Disaster Management in India: 4.1 Importance of public awareness, Preparation and execution of emergencymanagement programme.Scope and responsibilities of National Institute of Disaster Management (NIDM) and National disaster management authority (NDMA) in India.Methods and measures to avoid disasters, Management of	06

	casualties, set up of emergency facilities, importance of effective communication amongst different agencies in such situations. 4.2 Use of Internet and softwares for effective disaster management. Applications of GIS, Remote sensing and GPS in this regard.	
05	Financing Relief Measures: Ways to raise finance for relief expenditure, role of government agencies and NGO's in this process, Legal aspects related to finance raising as well as overall management of disasters. Various NGO's and the works they have carried out in the past on the occurrence of various disasters, Ways to approach these teams. International relief aid agencies and their role in extreme events.	09
06	Preventive and Mitigation Measures: Pre-disaster, during disaster and post-disaster measures in some events in general Structural mapping: Risk mapping, assessment and analysis, sea walls and embankments, Bio shield, shelters, early warning and communication Non Structural Mitigation: Community based disaster preparedness, risk transfer and risk financing, capacity development and training, awareness and education, contingency plans. Do's and don'ts in case of disasters and effective implementation of relief aids.	06

Assessment:

Internal:
Assessment consists of two tests out of which; one should be compulsory class test and the other is either a class test or assignment on live problems or course project.

End Semester Theory Examination:
Some guidelines for setting up the question paper. Minimum 80% syllabus should be covered in question papers of end semester examination. **In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.**

1. Question paper will comprise of total six question
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

REFERENCES:

1. 'Disaster Management' by Harsh K.Gupta, Universities Press Publications.
2. 'Disaster Management: An Appraisal of Institutional Mechanisms in India' by O.S.Dagur, published by Centre for land warfare studies, New Delhi, 2011.
3. 'Introduction to International Disaster Management' by Damon Copolla, Butterworth Heinemann Elseveir Publications.
4. 'Disaster Management Handbook' by Jack Pinkowski, CRC Press Taylor and Francis group.
5. 'Disaster management & rehabilitation' by Rajdeep Dasgupta, Mittal Publications, New Delhi.
6. 'Natural Hazards and Disaster Management, Vulnerability and Mitigation – R B Singh, Rawat Publications
7. Concepts and Techniques of GIS –C.P.Lo Albert, K.W. Yonng – Prentice Hall (India) Publications. (Learners are expected to refer reports published at national and International level and updated information available on authentic web sites)

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Course Code	Course Name	Credits
MEDLO8043	Renewable Energy Sources	4

Objectives:

1. To study working principles of various renewable energy sources and their utilities.
2. To study economics of harnessing energy from renewable energy sources

Outcomes: Learner will be able to…

1. Demonstrate need of different renewable energy sources
2. Discuss importance of renewable energy sources
3. Discuss various renewable energy sourses in Indian context
4. Calculate and analyse utilization of solar and wind energy
5. Illustrate design of biogas plant
6. Demonstrate basics of hydrogen energy

Module	Detailed Contents	Hrs.
01	**Introduction to Energy Sources**: Renewable and non-renewable energy sources, Need for Renewable Energy Sources, Energy Consumption as a measure of Nation's development; Strategy for meeting the future energy requirements, Global and National scenarios, Prospects of renewable energy sources, Present status and current installations, Introduction to Hybrid Energy Systems.	07
02	**Solar Energy**: Merits and demerits, Solar radiation - beam and diffuse radiation, solar constant, earth sun angles, attenuation and measurement of solar radiation, local solar time, derived solar angles, sunrise, sunset and day length, Methods of Solar Radiation estimation. **Solar Energy collection devices and Classification:** Flat plate collectors, concentrating collectors, Solar air heaters-types, solar driers, storage of solar energy-thermal storage, solar pond , solar water heaters, solar distillation, solar still, solar cooker, solar heating & cooling of buildings, Solar Photovoltaic systems & applications.	12
03	**Wind Energy**: Principle of wind energy conversion; Basic components of wind energy conversion systems; wind mill components, various types and their constructional features; design considerations of horizontal and vertical axis wind machines: analysis of Aerodynamic forces acting on wind mill blades and estimation of power output; wind data and site selection considerations.	10
04	**Energy from Biomass**: Biomass conversion technologies, Biogas generation plants, classification, advantages and disadvantages, constructional details, site selection, digester design consideration, filling a digester for starting, maintaining biogas production, Fuel properties of bio gas, utilization of biogas.	06
05	**Geothermal Energy**: Estimation and nature of geothermal energy, geothermal sources and resources like hydrothermal, geo-pressured hot dry rock, magma. Advantages, disadvantages and application of geothermal energy, prospects of geothermal energy in India. **Energy from the ocean**: Ocean Thermal Electric Conversion (OTEC) systems like open cycle, closed cycle, Hybrid cycle, prospects of OTEC in India. Energy from tides, basic principle of tidal power, single basin and double basin tidal power plants, advantages, limitation and scope of tidal energy. Wave energy and power from wave, wave energy conversion devices, advantages and disadvantages of wave energy	08
06	**Hydrogen Energy:** Methods of Hydrogen production, Hydrogen Storage, Fuel Cells and Types of Fuel Cells.	05

Assessment:

Internal Assessment for 20 marks:

Consisting **Two Compulsory Class Tests**

First test based on approximately 40% of contents and second test based on remaining contents (approximately 40% but excluding contents covered in Test I)

End Semester Examination:

Weightage of each module in end semester examination will be proportional to number of respective lecture hours mentioned in the curriculum.

1. Question paper will comprise of total **six questions**, **each carrying 20 marks**
2. **Question 1** will be **compulsory** and should **cover maximum contents of the curriculum**
3. **Remaining questions will be mixed in nature** (for example if Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only **Four questions need to be solved**

Reference Books:

1. Non-conventional energy sources by G.D. Rai, Khanna Publishers
2. Renewable Energy:Power for a Sustainable Future, Edited by Godfrey Boyle, 3rd Edition, Oxford University Press
3. Solar Energy: Principles of Thermal Collection and Storage by SP Sukhatme and J K Nayak, TMH
4. Solar Energy: Fundamentals and Applications by H.P. Garg& Jai Prakash, Tata McGraw Hill.
5. Wind Power Technology, Joshua Earnest, PHI Learning, 2014
6. Renewable Energy Sources, J W Twidell& Anthony D. Weir. ELBS Pub.
7. Energy Conversion Systems, R D Begamudre, New Age International (P) Ltd., Publishers, New Delhi ,2000.
8. Solar Photovoltaics: Fundamentals, Technologies and Applications, C S Solanki, 2ndEdition, PHI Learning
9. Biomass Regenerable Energy, D. D. Hall and R. P. Grover, John Wiley, New York
10. Wind and Solar Power Systems, Mukund R Patel, CRC Press
11. Wind Energy Explained: Theory, Design and Application, J F Manwell, J.C.McGowan, A.L.Rogers, John Wiley and Sons
12. Magneto Hydrodynamics by Kuliovsky and Lyubimov, Addison

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Semester VII

Course Code	Course Name	Credits
CEDLO7022	Department Optional Course-4 Solid and Hazardous Waste Management	03

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorial	Total
03	--	--	03	--	--	03

Theory					Term Work/Practical/Oral			Total
Internal Assessment			End Sem Exam	Duration of End Sem Exam	Term Work	Pract.	Oral	
Test-I	Test-II	Average						
20	20	20	80	03 Hrs.	--	--	--	100

Rationale

Management of solid and Hazardous waste is a challenge for all developed and developing nations. Measures like proper collection, segregation, treatment, and solid waste disposal needs more attention in today's world. To achieve sustainable development proper solid waste management should be subjected to various types of waste treatments for obtaining value added products. Robust implementation of planned facilities for reuse, recycling, maximum resource recovery from various waste facilities, combined with safe residual waste disposal through sanitary landfills, incineration and novel methods of composting is initiated.

Objectives

1. To describe functional elements of solid waste management and its need.
2. To explain the segregation and transportation of municipal solid waste.
3. To recognize waste disposal methods and energy recovery techniques.
4. To comprehend the necessary knowledge and concepts of landfill for disposal.
5. To demonstrate hazardous waste management through its safe handling and disposal.
6. To identify assorted types of solid waste.

Detailed Syllabus

Module	Course Module / Contents		Periods
I	**Municipal Solid Waste Management**		06
	1.1	Sources, Types, Quantities, Composition, sampling of wastes, Properties of wastes, Numericals related to moisture content, density and Energy content, Problems and issues of solid waste management - Need for solid waste management- Awareness programme, Legal issues related to solid waste disposal	
	1.2	Functional Elements of SWM- waste generation (factors affecting), storage, collection, transfer and transport, processing, recovery and disposal in the management of solid waste.7R concept	
II	**Waste Segregation, Storage, Collection and Transport**		06
	2.1	Segregation - wet and dry method, Volume reduction at source, Recycling and Reuse of waste, Methods of collection - House to House collection, On site storage of municipal solid waste, Hauled container and stationary container system, Collection routes; Optimization of transportation routes, Numericals on container and collection systems.	
	2.2	Transfer station -Significance, Site selection, Types, Material Recovery facility	
III	**Waste processing techniques and Energy Recovery**		06
	3.1	Waste transformation- Biological and Thermal Biological Conversion Technologies – Composting, Factors affecting for composting, Various Composting Methods as Indore and Bangalore, Vermi, Mechanical and In vessel composting, Numericals on aerobic and anaerobic composting	
	3.2	Thermal conversion technologies – Incineration, Pyrolysis, Gasification, Refuse derived fuel	
IV	**Landfills for Disposal of Waste**		07
	4.1	Landfill Classification-Sanitary, Secure and Bioreactor, Design criteria for landfill site selection, operation and maintenance, Landfill methods -Trench, Area, Slope	
	4.2	Leachate generation, Characteristics and it's control methods. Landfill gas management and landfill closure	
	4.3	IoT in solid waste management	
V	**Hazardous Waste Management**		07
	5.1	Sources, Characteristics and classification of hazardous wastes, Storage, Handling, Collection, Transportation and Minimization, Need for Hazardous Waste Management	
	5.2	Treatment and Disposal	

		Hazardous Site remediation – onsite and offsite Techniques. Hazardous waste management using secure landfill, Disposal practices in Indian Industries, Hazardous Waste Management Rules 2016.	
VI	**Assorted Solid Wastes**		
	6.1	**Biomedical waste** Need for Biomedical Waste Management, Sources, Classification, Storage and Segregation- Color coding, Collection and Transportation, Treatment and Disposal. Latest Biomedical waste management rules. **Electronic Waste** Types, Component separation, Collection, Recycling and Recovery, E-waste management techniques and Latest E- waste management rules	07
	6.2	**Plastic Waste** Problems related to plastic wastes, Plastic waste management- Recycling & recovery, Energy production, Plastic waste management- Rules and Regulation **Construction and Demolition waste** Composition, Recycling and reduction, Proper Management	

Contribution to Outcome

After the completion of the course the learner should be able to:

1. Acquire the knowledge of functional elements of solid waste management.
2. Illustrate solid waste collection system, route optimization techniques, transfer station and processing of solid waste.
3. Develop the ability to plan waste minimization and processing of solid waste.
4. Explain approaches to treat the solid waste in the most effective manner for sustainable development.
5. Discuss safe methods of handling, management and disposal of hazardous waste.
6. Summarize waste management techniques used for assorted solid waste

Internal Assessment **20 Marks**

Consisting Two Compulsory Class Tests - First test based on approximately 40% of contents and second test based on remaining contents (approximately 40% but excluding contents covered in Test I). Average of marks will be considered for IA.

End Semester Examination **80 Marks**

Weightage of each module in end semester examination will be proportional to number of respective lecture hours mentioned in the curriculum.

1 Question paper will comprise of total six questions, each carrying 20 marks.

2 Question 1 will be compulsory and should cover maximum contents of the curriculum.

3 Remaining questions will be mixed in nature (for example if Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3).

4 Only Four questions need to be solved.

Recommended Books:

1. Integrated Solid Waste Management: Techobanglous, Thisen and Vigil, McGraw Hill International.
2. Hazardous Waste Management: Lagrega, Buckingham and Evans, McGraw Hill International.
3. Solid Waste Management in Developing Countries: A.D. Bhide, Nagpur publications.
4. Environmental Pollution Control Engineering: C.S. Rao, Wiley Eastern, Manual of solid waste of management, CPHEEO.
5. E-Waste: Implications, Regulations, and Management in India and Current Global Best Practices, Rakesh Johri, The Energy and Resources Institute.
6. Biomedical Waste Management in India: Jugal Kishore and G. K. Ingle, Century Publications
7. Advances in Construction and Demolition Waste Recycling Management, Processing and Environmental Assessment, Fernando Pacheco-Torgal, Yining Ding, Francesco Colangelo, Rabin Tuladhar, Alexander Koutamanis.
8. Plastics Waste Management, Disposal Recycling and reuse, Marcel Dekker, Inc. New York, 1993- Nabil Mustafa.
9. CPHEEO, “Manual on Municipal Solid Waste Management” Central Public Health and Environmental Engineering Organization, Government of India, New Delhi , 2000.
10. MSW Rules 2016,” Swachh Bharat Mission and Smart Cities Program of India.
11. Hazardous and other Wastes Management Rules,2016

Click here for summary page

Semester VIII

Course Code	Course Name	Credits
CEDLO8015	Department Optional Course 5: Industrial Waste Treatment	03

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorial	Total
03	--	--	03	--	--	03

Theory					Term Work/Practical/Oral			Total
Internal Assessment			End Sem Exam	Duration of End Sem Exam	Term Work	Pract.	Oral	
Test-I	Test-II	Average						
20	20	20	80	3 Hrs.	--	--	--	100

Rationale

Industrial wastewater is much more polluted than the domestic wastewater and hence has to be treated with the efficient choice of treatment units by preventing pollution of natural streams and rivers. Wastewater treatments may not suffice only with primary treatments until they are modified and supplemented by additional techniques because of toxic chemicals. Industries are therefore generally prevented by legal aspects, from discharging their untreated effluents. It becomes mandatory for industries to treat their wastewater in their individual treatment plant or common effluent treatment plant before discharging their waste on land, lake, river, municipal sewer, streams as the case may be.

Objectives

1. To enable the students to understand quality, characteristics, toxicity of industrial wastewater and its effects on streams.
2. To enable the students to understand the impact of industrial wastewater on natural streams.
3. To enable the students to understand waste minimization techniques for industrial wastewater.
4. To enable the students to understand the necessary knowledge and concepts of biological treatment and advanced/emerging techniques.
5. To enable the students to understand various industrial manufacturing process, effluents and treatments.
6. To enable the students to understand legislative framework for the remediation of industrial wastewater through environmental audit, environmental impact assessment and common effluent treatment plant.

Detailed Syllabus

Module	Course Module / Contents		Periods
I	**Introduction to industrial waste and treatments:** Sources and types of industrial waste-water, Effects of industrial waste-water on streams and waste-water treatment plants. Population equivalence, generation rates, characterization, important contaminants of concern from industries. Toxicity and Bioassay tests. Regulation for protection of streams. BOD Numericals.		06
II	**Stream Protection Measures:** Stream and effluent standards, stream sampling, stream sanitation, Procedures for improving stream water quality, zones of pollution, oxygen sag curve, Streeter Phelps Equation and numerical.		06
III	**Waste minimization:**		06
	3.1	Minimizing effects of industrial waste water: Volume reduction and Strength reduction	
	3.2	Equalization, Neutralization, Proportioning, Precipitation, Coagulation and flocculation. Flotation - Oil separation and Emulsion breaking.	
IV	**Waste-water treatments for industries**		06
	4.1	**Biological treatments:** Aerobic and Anaerobic biological treatment methods (Ponds, lagoons, UASB, RBC). Sludge dewatering techniques- Filter Press, Vacuum Filtration, Sludge thickening, Membrane filtration and Centrifuge.	
	4.2	**Advanced treatments:** Need for advance technologies, Automated Chemostat Treatment (ACT) Soil Biotechnology (SBT) Reed Bed Technology (RBT) Ozonation	
V	**Industries and waste-water management:** Raw material, Manufacturing process and flow-sheets, sources of effluents, characteristics, ETP, byproduct recovery for following industries: ● Sugar ● Distillery ● Tannery		10

	● Dairy ● Paper and Pulp ● Metal Processing Industry (Electroplating)		
VI	**Legal Aspects, Environment Management Tools and Common Treatment Facility for industries**		05
	6.1	Environmental Impact Assessment, Case Study.	
	6.2	Environmental Audit for industries.	
	6.3	Common Effluent Treatment Plants (CETPs): Flow chart, Location, Need, Operation & Maintenance Problems and Economical aspects. Case study.	

Contribution to Outcome

Having completed this course, the students shall acquire the knowledge of biological treatment and will be able to decide and select precise treatment for particular waste. The students shall be able to determine and design the treatment facilities and assess the guidelines for disposing of waste. They shall be able to formulate approaches to treat waste water in the most effective manner for contamination removal.

After the completion of the course the learner should be able to:

1. Explain the impact of industrial wastewater characteristics on natural streams.
2. Analyze various stream protections measures to protect the natural streams.
3. Summarize waste minimization techniques for industrial wastewater.
4. Relate biological treatment concept and summarize various treatments along with advance technologies.
5. Describe waste water generated during manufacturing process and decide the suitable treatment for effluents.
6. Evaluate legislative framework for the remediation of industrial wastewater through environmental audit, environmental impact assessment and common effluent treatment plant.

Internal Assessment: **20 Marks**

Consisting Two Compulsory Class Tests - First test based on approximately 40% of contents and second test based on remaining contents (approximately 40% but excluding contents covered in Test I) Average marks scored in the above two tests will be considered for final assignment of marks which will be out of 20.

End Semester Examination: **80 Marks**

Weightage of each module in the end semester examination will be proportional to the number of respective lecture hours mentioned in the curriculum.

1 Question paper will comprise of a total six questions, each carrying 20 marks.

2 Question 1 will be compulsory and should cover maximum contents of the curriculum.

3 Remaining questions will be mixed in nature

4 Only Four questions need to be solved.

Recommended Books:

1. Industrial Pollution Control by Eckenfedlar W.W, 2017
2. Wastewater Engineering Treatment, Disposal, Refuse: Metcalf and Eddy, T.M.H. Edition, New Delhi, 1995.
3. Environmental Engineering Vol II- Sewage Disposal and Air Pollution Engineering: S. K. Garg, Khanna Publishers New Delhi.
4. Water supply and sanitary Engineering: Hussain S. K., Oxford and IBH Publication, New Delhi.
5. Wastewater Treatment for Pollution Control and Reuse Hardcover – 1 July 2017, Soli. J Arceivala , Shyam. R Asolekar.
6. Environmental Engineering: B. C. Punmia, Laxmi Publications, New Delhi.
7. Water Supply and Sewerage: E.W. Steel.
8. Introduction to Environmental Engineering, Vesilind, PWS Publishing Company 2000.
9. Introduction to Environmental Engineering: P. Aarne Vesilind, Susan M. Morgan, Thompson.
10. Wastewater Treatment- Concepts and Design Approach: G. L. Karia and R. A. Christian.
11. Basic Principles of Wastewater Treatment Book ,Marcos Von Sperling
12. Industrial Waste Water Treatment Book, A. D. Patwardhan
13. Waste Water Treatment , M.N. Rao and Dutta

Reference Books:

1) Manual on Wastewater Treatment 3rd Ed. Pub: CPH and Env. Engg. Organization, Ministry of Urban Development, Govt. of India, New Delhi, 1991.
2) CPHEEO Manual on Sewage and Treatment.
3) Relevant Indian standard specifications and BIS publications.
4) Handbook of Water and Wastewater Treatment Plant Operations Book,y Frank R. Spellman

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Vidyavardhini's College of Engineering & Technology

K. T. Marg, Near Railway Station, Vasai Road(W), Dist. Palghar, Pin. 401202

Beach Cleaning Activity

Activity Report

Academic Year	2019-20
Title of the activity	RAJODI BEACH CLEANING
Date of the activity	29/08/2019
Description of the activity	Beach cleaning in association with "GREEN LIFE FOUNDATION" at Rajodi Beach to Promote nature conservation.
Venue of the event	RAJODI. BEACH
Organizing committee	NSS-VCET
Number of participants	27

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2019-20)

Date - 29th August, 2019

To,

Principal

VCET

Subject: Report on Beach Cleaning on 29th August 2019.

Respected Sir,

This is the era where purity of Oceans is degrading due to enormous pollutants which are being dumped in it by citizens. On 29th August 2019,the NSS Wing of Vidyavardhini's College of Engineering and Technology,Vasai associated with Green Life Foundation and carried out an event named "BEACH CLEANING" under the guidance of Prof. Chandan Kolvankar,, Prof. Vishal Pande and myself.

The event was held at Rajodi Beach, Nalasopara. It was successfully carried out by the students. Total area cleaned was 400mtrs. The before and after picture is awestruck!

The feeling of cleaning the beach made everyone to pledge not to litter around and not let others do either! Leading an initiative to a clean and beautiful city around.

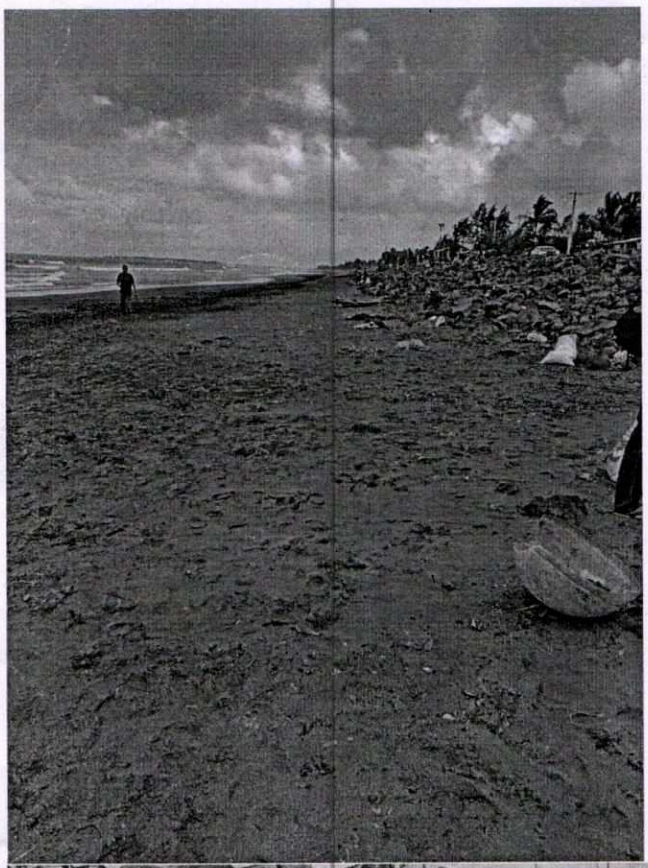
Dr. Pradip Gulbhile,

Programme Officer,

NSS.

BEACH CLEANING

BEACH CLEANING



BEACH CLEANING

Vidyavardhini's College of Engineering & Technology
K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2019-20)

Sr. No	Name	Year
1	Aryan Patil	BE
2	Manoj Prabhu	BE
3	Devesh	BE
4	Roma Dhake	BE
5	Juneeth Panjri	BE
6	Ninad patil	BE
7	Swapna Khade	BE
8	Naman Annadate	BE
9	Omkar Suresh Suryavanshi	BE
10	Vinayak Deore	BE
11	Aniket Agavane	BE
12	Janhavi Mhatre	BE
13	Jayesh Nakashe	BE
14	Jessica Lobo	BE
15	Tanishka Wani	BE
16	Tanzil Irfan Shaikh	BE
17	Jay Kore	BE
18	Siddhi jangam	BE
19	Sundar Chaudhary	BE
20	Ajit Singh	BE
21	Omkar Chaudhari	TE
22	Chitresh Kheur	TE
23	Vinay Gawai	TE
24	Piyusha Rane	TE
25	Bhakti Shetty	TE
26	Gauravi Patankar	TE
27	Haripriya Ramisetty	TE

P.O. NSS

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Vidyavardhini's College of Engineering & Technology

K. T. Marg, Near Railway Station, Vasai Road(W), Dist. Palghar, Pin. 401202

Use of Plastic Survey

Activity Report

Academic Year	2021 - 22
Title of the activity	use of Plastic Survey
Date of the activity	09-12-21
Description of the activity	To reduce the use of plastic containers, NSS VCET with Dhyas foundation at Vasai station area.
Venue of the event	VCET + Dhyas foundation Vasai
Organizing committee	NSS VCET
Number of participants	20

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2021-22)

Date:- 9 December 2021

To,
The Principal
VCET.

Subject: Report on Plastic Survey, 9 December 2021

To reduce the use of plastic containers, NSS Committee of Vidyavardhini's College of Engineering and Technology, had collaborated with Dhyaas Foundation, an organisation that provides degradable containers to hotels and restaurants on 9th of December, 2021 from 10am onwards.

The event started with the members of Dhyaas foundation, introducing the motive and objective of their organisation and explaining the NSS members their tasks. NSS members were divided into groups of three and given a target of at least ten hotels, restaurants and fast food joints. The members travelled the neighbouring areas and communicated with the managers of restaurants about Dhyaas organisation and their objective to reduce the use of plastic containers. All the members came back after taking surveys from almost 30 nearby restaurants and fast food joints which consisted of information about the types of containers they use. Students were actively volunteering during this surveillance.

Lastly, the volunteers ended the event by giving a vote of thanks to all the dignitaries and other committee members.

Thank You,

Dr.Pradip Gulbhile
Programme Officer
NSS


Plastic Survey, 2021-22


Plastic Survey, 2021-22

Plastic Survey.

NSS

Vidyavardhini's College of Engineering &Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

Members	Year
Aditi Rathod	TE
Sundar Chaudhary	TE
Shravan Tawade	TE
Sushant Shetty	TE
Anagha Francis	TE
Hrushikesh Shetty	SE
Kshitij Patil	SE
Onkar Suryavanshi	SE
Pratham Ingawale	SE
Prerna Gawali	SE
Sairaaj Gurav	BE
Dhrumil Bhatt	BE
Omkar Salunkhe	BE
Suresh Borana	BE
Manoj Prabhu	BE
Rahul Chormare	BE
Rohit Salunkhe	BE
Swapna Khade	BE
Shreelakshmi Balachandran	BE
Samruddhi Gamre	BE

20

P.O. NSS

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Vidyavardhini's College of Engineering & Technology

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Dam Building Activity

Activity Report

Academic Year	2022-23
Title of the activity	BUND DAM CONSTRUCTION ACTIVITY
Date of the activity	28/01/2023
Description of the activity	THE DAM WAS BUILD TO REDUCE FLOW OF WATER DURING RAINS
Venue of the event	SAPHALE VILLAGE
Organizing committee	NSS
Number of participants	58

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology
K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Date - 28th January, 2023

To,

The Principal

VCET

Subject: Bund Dam Construction Activity

On the second day of Residential Camp, All the students got up early in the morning, exercised, had breakfast.

Later groups were formed to start the first task of the nss camp . Everyone formed a group to build a dam. All the students reached the location where the work was to be done i.e. Karasunda.

The dam was to be built to reduce the flow of water during rains. Everyone made a pit where they wanted to make a dam and filled cement bags with soil and built them. Then by placing them one on top of each other, approximately 15 feet long, 3 feet wide and 6 feet high was made. About 250 bags filled with mud were used in this.

Everyone completed this work in two and a half hours. It's truly said that, "Unity is strength...when there is teamwork and collaboration, wonderful things can be achieved". Even the villagers praised the students and were joyful.

Later , all the students returned to the residential camp and a meeting was taken by students to discuss the workflow for the next day.

Thank you

Dr.Pradip Gulbhile

Program Officer

NSS

Bund Dam Constrcution, 2022-23

Bund Dam Constrcution, 2022-23

P.O. NSS

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Event Name: Day 2 Date: 28/01/2023

Program Officer Sign: Leader's Sign:

Sr. No	NAME	BRANCH	SIGN
1.	Deeksha Shetty	CIVIL	
2.	Drishti Patil	CSE(DS)	
3	Radha Vishwakarma.	comps	
4.	ARCHA JADHAV	Comps	
5	Prerna Kanekar	comps	
6	Prerna Gawali	COMPS	
7.	Tejal Mendhe	IT	
8.	Gauravi Patankar	AI & DS	
9	Suryanarayan Chaudhury	AI/DS	
10.	Harshal S Bhamare	CSE (DS)	
11.	Sachin . P. Rai	MECH	
12.	Jay Prajapati	comp	
13.	chetan Jagdale	AI/DS	
14	Hrushikesh Shetty	COMPS	
15.	Rohit Redekar	Comps	
16.	Sugash Shelar	COMPS	
17.	Sarvadhan Salve	mech	
18.	Ankur sha saha	mech	
19	Vedant Chaskar	COMPS	
20.	Aayush Jha	CSE(DS)	
21	Tejas Puchadiya	Mech	
22	Kshitij Patil	Comp	
23	Onkar Suryavanshi	COMPS	
24	Pratham Ingawale	COMPS	
25	Sushant Shetty	INST	
26	Shubham Nakashe	Comps	
27	Nikita Mundaye	comps	
28	Amrita Bhosle	INST	
29	Prajakta Borse	Civil	
30	Bhupeksha Patil	COMPS	
31	Aashlesha Rajput	IT	
32	Vrushti Sanghavi	CSE(DS)	
33	Siddhi Jangam	CSE(DS)	
34	Janvi Bhanap	CSE(DS)	
35	Prinshi Jha	CSE(DS)	
36	Chaitanya Patil	COMPS	
37	Prathamesh G. More	MECH	
38	AYUSH S. SINGH.	MECH.	
39	Soham Mujumdar	Mech	
40	Shravan Tamb	EXTC	
41	Abhishek Gharat	MECH	

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Event Name: _____ Date: 28/1/23

Program Officer Sign: _____ Leader's Sign: _____

Sr. No	NAME	BRANCH	SIGN
42	Vaishnavi Deokar	IT	
43	Tallavi Thakur	IT	
44	Ujwal Upadhyay	MECH	
45	Ragini Nair	INST	
46	Sirajuddin Syed Qadri	MECH	
47	Aditi Rathod	MECH	
48	Dhruv P. Pubby	Civil	
49	Anagha Francis	MECH	
50	Abhishek Mahri	IT	
51	Rishitij Shetty	COMPS	
52	Nihesika K. Deo	MECH	
53	Dhrupad Patil		
54	Dr. Pradip Gulbhile (24 hours)	FE.	
55	Ms. Hamita Santosh Raut	IT	
56	Ms. Pragati A. Patil	IT	
57	Sushil N. Patil	Staff	
58	Prabhakar B. Patil	—	

Updated
30/01/23
Deepak Dalvi

30/01/23
P.O. N.S.S.

Report on Energy Conservation Week

Vidyavardhini's College of Engineering & Technology

Academic Year 2022-23

Report on Energy Conservation Day 2022

Program	Energy Conservation Day 2022
Date	14/12/2022
Venue	1. Vidyavardhini`s College of Engineering 2. Municipal outskirts of Vasai West region for Bicycle Rally 3. Podar School, Vasai West 4. New English School, Nirmal, Vasai 5. St. Annes High School, Vasai West 6. Shree Taramai Vartak Memorial Academy, Virar
Description	Every year, Department of Mechanical Engineering, Vidyavardhini`s College of Engineering and Technology (VCET), Vasai (west), organizes "Energy Conservation Week". The event is organised on "World Energy Conservation Day" i.e 14th December to highlight the importance of energy consumption and its use in our day-today life. The contents covered in this program are:

Sr No	Name of Activity	Date	Duration
01	Inauguration of Energy Conservation Week 2021 by Mrs. Rashmi Joshi,	14/12/2022	3 pm to 5 pm
02	Expert Talk on the Roadmap for Electric Vehicles – Earth EV	15/12/2022	3pm to 5 pm
03	**Bicycle rally to create awareness about Energy conservation and energy Efficiency**	16/12/2022	10 am to 12 pm
04	Renewable Energy Startup talk by Mr. Ratnesh Shingrupe, Quasar Innovative Solutions.	19/12/2022	10 am to 12 pm
05	Outreach Activity by the Faculty of Mechanical Engineering Department at various schools in the VVCMC Region	20/12/2022	9 am to 5 pm

Organized By	Coordinators: Mr Swapnil R Mane, Assistant Professor, Mechanical Engineering Chief Guest: Mrs. Rashmi Joshi, Environment Consultant, Mumbai

S.R. Mane

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Dept. of Mechanical Engg.
Vidyavardhini's College of
Engineering & Technology
Vasai Road-4

Vidyavardhini's College of Engineering & Technology

Academic Year 2022-23

Guest Lecture by Mrs. Rashmi Joshi on Energy and Environment
14th December 2022
Venue: Ground Floor Seminar Hall (3pm to 5pm)

About the Guest:
Name: Ms. Rashmi Joshi
Designation: Environment Consultant
No. of Participants: 21
Phone no. 9819599851
Mail id rashmijoshi72@rediffmail.com
Currently working as Environment Consultant for last 10 years with a special focus on Composting,
E-waste Collection Drives, Seed ball making and Kitchen Gardening

Educational Qualifications
M.A. (Greek Philosophy), NET Exam Qualified

Experience
- Lecturer at Ruparel Junior College, Khalsa Degree college, Government Law College and Mumbai University
- Public awareness related to environment issues-
- Creating awareness among students in particular and society in general by delivering lectures, guidance, training and implementation of composting projects at around 50 plus schools, colleges and 100 plus housing societies.
- E-waste collection, plastic waste collection and sending it for recycling – from approximately 50 colleges of Mumbai, Navi Mumbai, Thane, Pen (Raigad) & Ratnagiri; 200 plus housing societies and 25 Schools and other institutions including the corporates.
- Organisation of E-waste collection drives in 40 colleges, 25 schools and 50 residential colonies of Mumbai, Dombivali, Thane & Navi Mumbai and collected around & 20 ton of E-waste and its disposal for scientific recycling to Government approved recycler. This way the E-waste reached the recycling facility instead of reaching the dumping ground.
- Similarly, composting projects were completed at several locations and few hundred tons of wet waste in the form of kitchen waste and garden waste was prevented from reaching the dumping ground.
- Conducted around 2000 plus awareness lectures on Solid Waste Management in various Educational Institutions, Housing Societies & other Institutions.
- I was also involved in organization of Plastic Waste Collection Drives in various educational and other institutions.
- Conducted webinars in around 100 institutions during lockdown till date. Awareness interviews on All India Radio as well as Media Coverage in various Newspapers.

Awards and Achievement
- Felicitated by Thane Municipal Corporation
- Felicitation by F/North Ward of MCGM.
- Naari Swashakti Puraskaar.
- Guru Nanak College Award
- Prasar Bharati Award for work in Swachh Bharat Abhiyan
- Kartrutvavaan Naariratna Gaurav Puraskar 2020
- Corona Warrior Awards (from 4 Organizations)
- Rajyastariy Covid Yodhha Samaj Rakshak Mahasanman 2021
- Adarsh Corona Warrior Award received on 1st May 2021.
- Served a critical cancer patient continuously for two years.

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Vidyavardhini's College of Engineering & Technology
Vasai Road-401202.

Mrs. Rashmi Joshi addressed about the scientific findings that a global energy transformation is needed to address the growing risks associated with accelerated global environmental change. Anthropogenic pressures on the planet have reached a level where large-scale deleterious impacts, or even catastrophic ones, can no longer be excluded. She also mentioned that such impacts have the potential to undermine human development.

This new global social environmental predicament is closely associated with energy. Atmospheric emissions from energy use contribute to multiple environmental impacts. In addition to climate change, atmospheric pollutants may limit net primary productivity of ecosystems, and lead to the acidification and eutrophication of land and seascapes. Energy and Environment

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Vasai Road-401202.

interact, reinforcing impacts on social and environmental systems, in complex ways that are not always well understood. She talked about Climate change and GHG emissions.

Students asked about how they can contribute to reducing the impact of Global Climate change to which she replied to follow the SDG`s which can cause a greater impact on the sustainability index of the country.

The session ended with a vote of thanks by Mr. Vishwas Palve, Assistant Professor at the Department of the Mechanical Engineering.

Prepared By
Swapnil Mane
Coordinator, ECW 2022
Assistant Professor, MECH Dept.

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Vasai Road-401202.

Vidyavardhini's College of Engineering & Technology

Academic Year 2022-23

Outreach Activity at various schools for awareness about Energy Conservation

16th December 2022

Venue: St. Annes High School, Podar International School, Issac Newton High School, New English School and Taramai Vartak Memorial School

Aim: To create awareness among the citizens towards Energy Conservation and Efficiency

With an aim to create awareness among the citizen of Vasai Virar Municipal region, Department of Mechanical Engineering on the National Energy Conservation Day proposed an outreach activity under the name "Urja Vistaar".

Objectives Of Urja Vistaar

The objective of **URJA VISTAAR** is to create awareness among the public and equip them for efficient management of all forms of energy, to promote energy efficiency and energy conservation and to develop new sources of energy as well as novel energy technologies with a view to increasing the production and facilitating the use of energy on a sustainable basis. It aims at seeking the school children of Class 9th and 10th to convene, catalyze and facilitate works in the energy conservation related activities in a participatory mode by utilising the natural sources of Energy. Therefore, schools that have been involved in community participation, environment, and energy conservation work were approached for promoting the sustainable usage of Energy for Cooking, Transportation and Lighting.

Activities

This program, in general, focuses on enhancing environmental awareness and fostering critical thinking and problem- solving approaches among participants, by helping them to become actively involved in the exploration of their immediate environment through understanding certain concepts and undertaking some selected activities related to Energy conservation and energy efficiency. The intention is to encourage an approach which takes some of these basic ideas and adapts them to suit local needs. Thus, the activities of the Urja Vistaar program consist of demonstration of Solar Cooker so that the basic needs of cooking can be established by the participants. Also the program involves to demonstrate and distribute solar Lamps to students living in tribal areas who are deprived of uninterrupted power supply which hinders there need for studying during the off sunlight periods.

Action:

The faculties of the Department of Mechanical Engineering visited the schools in the Vasai-Virar Municipal Corporation region to sensitize the students and inculcate mitigation from conventional methods of energy usage. The snaps of the visit are as follows:

S.R.Mane

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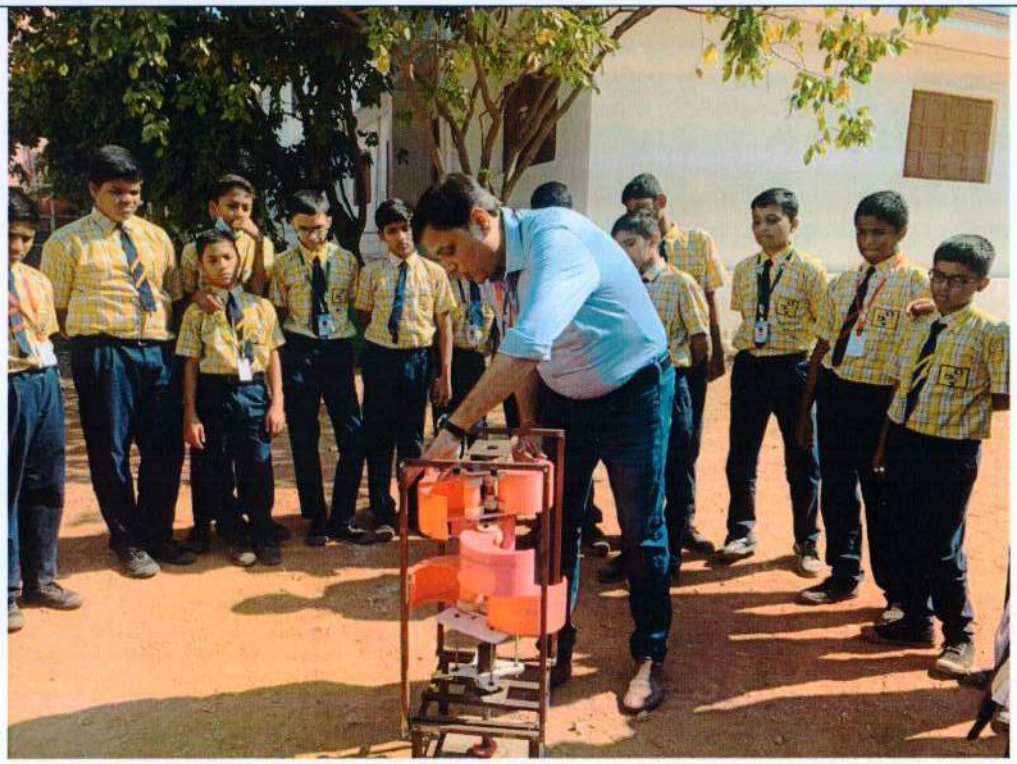
Vidyavardhini's College of Engineering & Technology

Academic Year 2022-23



S.R. Mane

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(Ministry of Education Initiative)
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Website: www.vcet.edu.in

Report of
Expert Talk on Process of Innovation Development Technology Readiness Level(TRL),Commercialization of Lab Technologies and Tech-Transfer
19th Dec 2022

Objective: The process of Innovation Development in Solar Energy Conservation and Start up Strategy

About the Speaker: The guest speaker for the session

1. Speaker:- Mr.Ratnesh Shingrupe

   Founder- and CEO of Quasar Innovative Solutions – India (Qinso),Thane Maharashtra

Brief introduction

Quasar Innovative Solutions – India have received four national awards in System Designing in Renewable Technology. Years of R & D in Industry has gained confidence to attempt for extremely difficult levels of Projects Implementation. Challenges inspires Quasar Innovative Solutions – India to work & resolve them with best possible solutions. Environment & Innovative research are the fields which inspires them to work passionately for betterment of the society. We wish for the better business relations in coming time.

Mr.Ratnesh graduated in Computer Science from Mumbai University established his own start up by this venture. Mr.Ratnesh is a motivational speaker for the students since long time and today he is presenting about the innovation development technologies ,TRL and ways of commercialization

Brief discussion of the event

Mr.Ratnesh is very close to solar energy work and established his own Quasar Innovative Solutions – India (Qinso) for manufacturing of solar panels. Mr.Ratnesh is actively involved in the solar photovoltaic plant installation and commissioning.

Brief Description of the event

Mr. Ratnesh elaborate about the clear goals and vision. In view of Mr.Ratnesh, the vision should be created keeping long term goals. This vision only powers the enterprise to travel on the path of growth. This vison set by the founder of entrepreneur should be the vison of all employee working in the enterprise. Its not only to earn higher salary or higher position in the company.

The broad vision may have small small goals in order to fulfill the vision. Time to time after reaching to set targets, the vision of the company could be improvised.

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Mr.Ratnesh highlight of getting inspired by the vision. All employees together will prepare the action plan the vision. If all focused on vision then the small goals are automatically fulfilled.

Mr. Ratnesh emphasis that see the dreams when you are awake not when you are sleeping. Those you can follow and put forward steps towards fulfillment of them.

Mr.Ratnesh established his own competence keep consistency in the technology readiness level with respect to market. Mr.Ratnesh explained about the TRLs for establishing an enterprise rather who could mae his/her way towards entreprises based on TRL, MRL. The review of market should be very important and one should keep the plan in hand to execute the technology on time.

Be diligent and and inspired for technology transfer with industries ,research labs for progess of the product in term consumer market gain.

Overall the session was excellent and may videos shared by Mr.Ratnesh during installation of the solar plants by their venture. The mathematics of calculating the project cost and quoting also discussed in details. Students were actively participated in the Q and A session. Total 52 students and 4 faculty members were participated in the event.

Thank you

Dr. Ashish Chaudhari

Dr.Ashish Chaudhari

President IIC

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Report of
Expert Talk on Process of Innovation Development Technology Readiness Level(TRL),Commercialization of Lab Technologies and Tech-Transfer
19th Dec 2022

Glimpses of the Event

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Report of
Expert Talk on Energy Conservation Strategy in Electric Vehicles
14th Dec 2022

Objective: To create awareness for innovations in energy conservation strategies needed in electric vehicles

About the Speaker: The guest speaker for the session

1. Speaker:- Mr.Kavan Raval

   Chief Strategic Sales and Partnership Officer, Earth Energy EV,Vasai

Brief introduction

Mr. Kavan is A Techno-Commercial expert in the field of EV Automobiles with a proven record in sales, operations, and corporate relations. Been part of an electrified journey where Mr. Raval saw a company & product in making from scratch and contributed to solidifying the roots of the same. Always ready to take up the driving seat of prototypes, push the machine to its limits, present the inputs to R and D team. Mr.Raval undertook vehicle development & logistical operations, event management, company representation activities at seminars and conferences.

Beyond vehicle technology, a significant boost in EV adoption could be awareness programs for users and technicians. Mr.Raval and team create a pool of EV promoters by organizing seminars/workshops for potential users and mechanics. There are many misconceptions about EVs that need to be addressed, which can be clarified by continuous interactions as a community. EV charging infra-availability is also an important game changer.

Brief Summary of the talk

Mr. Raval started his session with the introduction of his company Earth Energy EV and the startup growth and present status in field of electric vehicles. Mr.Raval highlights upon the key factors during design and development of the electric vehicle is the weight of the vehicle and the battery usage for maximum milage.

To understand this , the weight of the electric vehicle could be kept low using the innovative materials without compromise of the safety and anti-collision test. Various materials are under research and utilized in the making of electric vehicles. The weight of vehicle could be substantially reduced using the composite materials maintaining the same strength.

The lower the weight higher will be the performance of the vehicle. Further the battery system of the electric vehicle is another important part for the best efficiency of the vehicle. The battery system is such

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that it should be light in weight. Different orientations of the cell and frame design is crucial in the development of battery system of the electric vehicle.

The cooling system of the battery affects the performance in electric vehicle. In two-wheel vehicles, air cooling or natural draft cooling only possible, however in four wheel vehicle the cooling system need to be designed which could keep the cell temperature below designed limit of 40-45 degree centigrade. For this liquid coolant flow around cell is important. The maximum heat generated in the cell in axial direction which need to be dissipated to the surrounding, for this Mr.Kaval demonstrated different designs which are in exist and also under research. Mr. Kaval emphasis scope for innovation and research in this field of battery management system.

Optimum design of Battery system will automatically improve the performance of the vehicle. Battery swapping method which is a new technology initiated by the different start ups in India. Government of India is promoting the young engineers to establish their start up in this sector. Mr.Kaval gives the detailed explanation of the Battery Swapping technology.

Further Mr. Kaval put forward a question whether the electric vehicle causes pollution/emission. Mr. Kaval explains the clean environment or zero carbon footprint policy of Government of India. Electric vehicles consume electricity for charging. This electricity if generated from renewable sources such as solar photovoltaic or wind turbine farm could make a difference.

Overall the program was full of research and innovation. Students interacted with Mr.Raval with lots of question for this very new and silent technology of Electric Vehicles,

Around 50 students and 4 faculty members attended the event.

Thank you sir,

Dr. Ashish Chaudhari

Dr.Ashish Chaudhari

President IIC

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Report of
Expert Talk on Energy Conservation Strategy in Electric Vehicles
14th Dec 2022

Glimpses of the Event

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ATTENDANCE SHEET

Seminar on "Energy Conservation Strategy in Electric Vehicle"

Expert Speaker

Mr. Kavan Raval

Lead Corporate Alliance at Jindal Mobilitric | Chief Strategic Sales and Partnership Officer at Earth Energy EV

Sr. No.	Name of Student	Year	Branch	Sign
1	Rush. U Manjrekar	FE	Comp	
2	Rohit Mali	FE	COMP	
3	Akhilesh MANE	FE	COMP	
4	Mahadiya Vatsal J.	FE	Comp	
5	Sayash S. Palkar	F.E	Comp	
6	Smit mhatre	F.E	Comp	
7	Siddhesh. S. More	F.E	COMP	
8	Ashirwad kathwate	F.E	COMP	
9	Tanmay Narayankar	F.E.	COMP	
10	Mihirkumar V Lad	F.E	COMP	
11	Sambit Mazumder	F.E	COMP	
12	Wajiha Kulsum	FE	comp.	
13)	Vedant U. Kale	FE	comp	
14)	Jilla Saivamshi . R	FE	COMP	
15]	Jenil Rajesh Kotadia	F.E	comp	
16]	SAURABHSING VIPANSING PARDESHI	F.E	AI&DS	
17]	Apurv Sanjay Kini	F.E	AI&DS	
18]	Saurabh mane	F.E	AI&DS	
19)	SAKSHI KAKTE	D.S.E	Civil	
20]	Aniruddha Rane	D.S.E	Civil	
21)	Prathamesh A Sonki	D.S.E	Civil	
22)	Prasham K. Gandhi	D.S.E	Civil	
23)	Tejas .T. Shevale.	D.S.E	Civil	
24	Shubham Gonwale	D.S.E	Civil	
25)	Jay. patil	F.E	AI/DS	
26)	Vedika . Pawar	F.E	AI/DS	
27)	Yash . Patil	FE	AI/DS	
28)	Rohan Ganpat Mangaonkar	FE	AI/DS	
29)	Sakshi Anant shelar	EE D.S.E	Civil	
30)	Sai S. Gosavi	D.S.E.	civil	
31	Kaustubh K Chavan	D.S.E	Civil	
32	Apurva Umakant Jagtap	D.S.E	Civil	
33)	Ajay.s.Lachake.	D.S.E	CIVIL	
34)	Yajurved V. VAIDYA	D.S.E.	CIVIL	
35)	JATIN. VATARE	D.S.E	CIVIL	

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Dr. Ashish Chaudhary

Sr.No.	Name of Students	Year	Branch	Sign.
36]	Jay Panchal	D.S.E	mech	
37]	DHRUV HANAMIA	DSE	CIVIL	DHRUV
38]	Aniket Falka	DSE	mech	
39)	Rohit kache	DSE	CIVIL	
40)	Krutesh AAsekar	DSE	CIVL	
41)	Niketan. P. Lawdekar	DSE	Mech	
42)	Bansal Simaria	DSE	MECH	
43)	Aniket Jha	FE	COMP	
44)	Sandesh Pathidde	F.E.	AI/DS	Sandesh.
45)	Shubham. S. Mohanty	F.E	AI/DS	
46)	Sainath. S. Khot	FE	AI/DS	
47)	Yash. Mayakar	FE	AI/AS	
48)	Ayush. Mayekar	FE	AI (DS)	
49)	AFNAN PATHAN	FE	AI(DS)	
50)	Dnyanesh Panchal	FE	AI(DS)	
51)	Lavanya Murudkar	FE	AI(DS)	
52	Krithik Pandey	FE	AI, DS	
53	Ketan. N. Mahadik	F.E	AI/DS	
54	Tarun P Pathak	F.E	AI/DS	
55.	Mitanksh R. Gosavi	F.E.	AI DS	
56	Chaitanya. R. pimple	D.S.E	CIVIL	
57	Prathmesh Pandey	F.E	Comps	
58	Kashyap Jemuja	FE	comps	
59)	Piyush Kushe	F.E	Comps	
60	Krish Vaity	TE	MECH	
61	Naman Annadate	TE	Mech	
62	Aditya A. Lawate	SE	COMPS	
63	Shrushti Rane	TE	EXTC	
62	Heramb Shinde	D.S.E	MECH	
63	Reuben Noronha	DSE	MECH	Reuben
64	Shrutej. Nirgun	DSE	MECH	
65	Imran Khan Vyas	TE	A.I	

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Report of
National Energy Conservation Week
16th Dec.2022

Objective: To inculcate the importance of energy and its consumption among society

About the Speaker: The guest speaker for the session

1. Dr. Megha Trivedi
   Associate Professor, Computer Engineering Department
2. Mr. Swapnil Mane,
   Energy Auditor, Mechanical Engineering Department
3. Mr. Vishwas Palve
   Energy Manager, Mechanical Engineering Department

Brief introduction of Event

Institute Innovation Council in association with IQAC Vidyavardhini's College of Engineering and Technology organizes a Bicycle Rally with banners for awareness about energy saving and methods to generate energy from renewable sources for Ingrid power generation.

Dr.Trivedi and Mr. Swapnil Mane along with students were designed the banners for energy conservation and manufacture the hoardings that could be fixed to the bicycle. The banners of size 60 cm by 30 cm and wooden frame with handle for fixing it to the handle bar of the bicycle.

All participants arranged bicycles from thir own or from friends or relatives and participated in the event. The bicycle rally was started from institute campus at 10.30 am. Dr.Megha Trivedi shows the flag for starting the rally.

Starting from institute the participant follows the track to Ganapati mandir- panchavati- 100 feet road- suncity-grass road- bhuigaon. Return along the same track. Total travel of the bicycle rally is 15 kms.

The banners are

a. National Energy Conservation Week
b. Clean Energy renewable fuels
c. Energy is Life save it
d. BIS standards for energy saving
e. Solar panel grid power generation
f. Saving Energy methods

Dr. Ashish Chaudhary

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The students and faculty members were seen enthusiastic and communicated to the peoples on the road and tried to create awareness among them.

The Bicycle rally was successfully completed, and 13 students and 5 faculty members were involved in the rally.

Thank you,

Dr. Ashish Chaudhari

Dr.Ashish Chaudhari

President, IIC

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Report of
National Energy Conservation Week
16th Dec.2022

Glimpses of the Event

Dr. Ashish Chaudhari

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Environment Day

Activity Report

Academic Year	2022-23
Title of the activity	ENVIRONMENT DAY
Date of the activity	02/06/2022 - 05/06/2022
Description of the activity	NSS COMMITEE ORGANISED AN INSTITUTE WIDE HANDMADE POSTER MAKING COMPETITION
Venue of the event	VCET
Organizing committee	NSS
Number of participants	84

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Date - 6th June, 2022

To,

The Principal

VCET.

Subject: Environment Day

The NSS unit of Vidyavardhini's College Of Engineering and Technology, Vasai, celebrated World Environment Day to promote awareness and encourage the protection of our Mother Earth. The unit organized an institution-wide Handmade Poster Making Competition from June 2nd to June 5th, 2022, successfully conducted on an online platform. The theme for the competition was 'Only One Earth'.

VCET's NSS Committee wholeheartedly participated in the event. NSS student leaders Ragini Nair, Syed Sirajuddin, Aditi Rathod, Shravan Tawde, along with committee members, promoted the theme with various creative and inspirational designs.

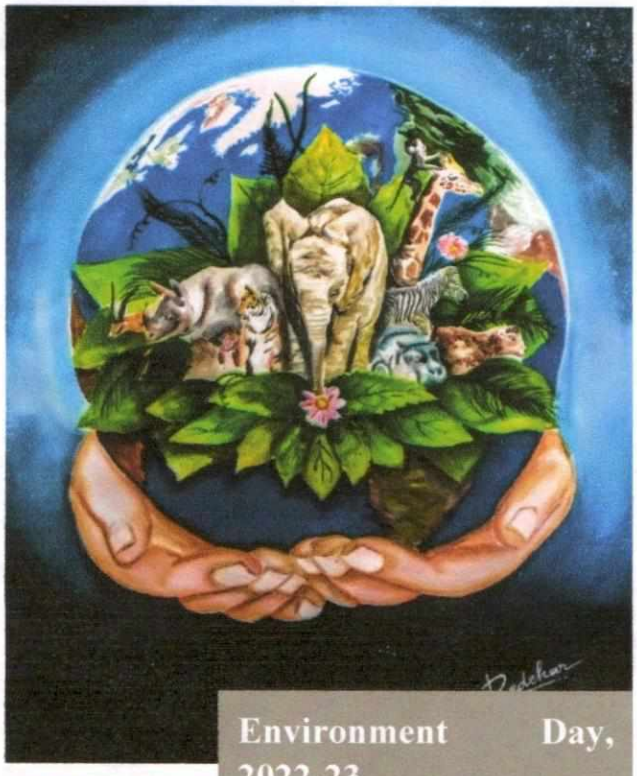
Following this, participants with the most praiseworthy submissions were awarded cash prizes. Upon concluding the event, all participants were bestowed with participation certificates.

Thank you

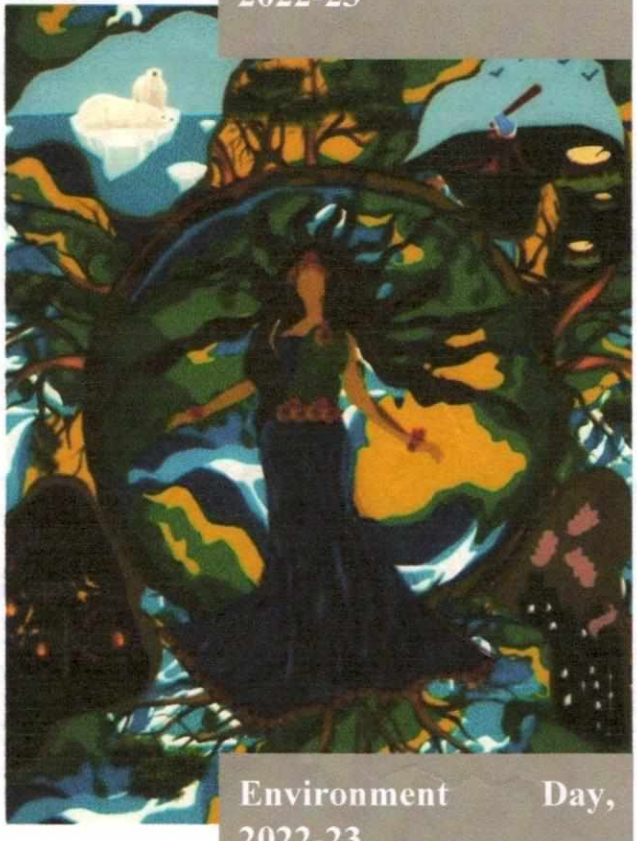
Dr.Pradip Gulbhile

Program Officer

NSS



Environment Day, 2022-23



Environment Day, 2022-23

Vidyavardhini's College of Engineering & Technology
K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

ENVIRONMENT DAY

SR NO	NAME	YEAR
1	Riya Dutta	TE
2	Riddhi Chavda	TE
3	Soham Murudkar	TE
4	Niharika Das	TE
5	Nilesh Birje	TE
6	Pallavi Thakur	TE
7	Rishabh Nahar	TE
8	Omkar Jadhav	TE
9	Siddhi Kolawankar	TE
10	Sanskruti Kokare	TE
11	Aditi Khambe	TE
12	Abhishek Hatui	TE
13	Vaishnavi Deokar	TE
14	Rishabh Tripathi	TE
15	Onkar Suryavanshi	TE
16	Hrushikesh Shetty	TE
17	Sachin Rai	TE
18	Jay Prajapati	TE
19	Sanika Patil	TE
20	Bhupeksha Patil	TE
21	Kshitij Patil	TE
22	Pratham Ingawale	TE
23	Prerna Gawali	TE
24	Vedant Chaskar	TE
25	Sachin Rai	TE
26	Krish Vaity	TE
27	Prajakta Borse	TE
28	Sneh Dave	TE
29	Manas Raut	TE
30	Harsh Sharma	TE
31	Deekha Shetty	TE
32	Chetan Jawale	TE
33	Janvi Chavan	TE
34	Sahil Gujral	TE
35	Siddhi Jangam	TE
36	Aayush Jha	TE
37	Prinshi Jha	TE
38	Urvashi Patel	TE
39	Jidnyasa Patil	TE
40	Vrushti Sanghvi	TE
41	Durvesh Karjekar	SE
42	Vinayak Deore	SE
43	Harshal Bhamre	SE
44	Prachi Shah	SE
45	Shruti Pawar	SE
46	Gauravi Patankar	SE
47	Raghvendra Devadiga	SE
48	Soham Dahanu	SE
49	Suryanarayan (	SE
50	jagruti Borse	SE
51	Isha Kshatriya	SE
52	Tejal Mendhe	SE
53	Prathamesh Ma	SE
54	Rutuja Mestry	SE
55	Sahil Kulabkar	SE
56	Sayali Gupta	SE
57	Vaishnavi Gaik	SE
58	Amey Chaudari	SE
59	Vipul Bhoir	SE
60	Nishant Bhandi	SE
61	Parth Baradia	SE
62	Aryan Darade	SE
63	Ujjwal Upadhay	SE
64	Anirudha Jadha	SE
65	Shranya Rudral	SE
66	Akash Mourya	SE
67	Kavisha Pachal	SE
68	Vaishnavi Dung	SE
69	Anushka Supe	SE
70	Aditya Bhandar	SE
71	Ankita Bhosle	BE
72	Mayuresh Kada	BE
73	Ragini Nair	BE
74	Riya Raut	BE
75	Sushant Shetty	BE
76	Urmiksha Tawd	BE
77	Chaitanya Patil	BE
78	Sundar Chaudh	BE
79	Prathamesh Mc	BE
80	Syed Qadri Sira	BE
81	Aditi Rathod	BE
82	Ankur Saha	BE
83	Anagha Francis	BE
84	Shravan Tawde	BE

P.O. NSS

HRUSHIKESH SHETTY
NSS LEADER

DEEKSHA SHETTY
UDAAN PRESIDENT

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Vidyavardhini's College of Engineering & Technology

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Rain Water Harvesting

Activity Report

Academic Year	2022-23
Title of the activity	RAIN WATER HARVESTING - GUEST LECTURE
Date of the activity	29/1/23
Description of the activity	MR. PRAKASH PANDA SPOKE ABOUT DIFFERENT TOPICS ON IMPORTANCE OF RAIN WATER HARVESTING
Venue of the event	SAPHALE VILLAGE
Organizing committee	NSS
Number of participants	59 Volunteers + 11 Villagers

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Date – 29th January, 2023

To,

The Principal

VCET

Subject: Rain Water Harvesting - Guest Lecture

During the Residential Camp, held from January 27th, 2023, to February 2nd, 2023, at Saphale village, on the third day of the camp, everyone gathered at the Sri Dutt Mandir Auditorium as the students of Vidyavardhini College of Engineering and Technology and staff eagerly awaited the program to begin. The chief guest, Mr. Mhatre, and teachers of Vidyavardhini College of Engineering and Technology, namely Swapnil Mane, Vishwas Palve, and Prakash Panda, were welcomed with much enthusiasm and admiration. Speaker Mr. Prakash Panda spoke about various topics to enlighten the students on the importance of rainwater harvesting.

Mr. Prakash Panda explained the importance of rain water harvesting, citing various examples. He then went to elaborate how to Implement rainwater harvesting systems and effective and sustainable way to manage water resources, especially in areas with irregular or insufficient rainfall.

The program ended with an impressive felicitation ceremony conducted by the National Service Scheme students for the chief guest. It was certainly an enriching experience for all who attended this memorable program.

Thank you.

Dr.Pradip Gulbhile

Program Officer
NSS

Rainwater Harvesting, 2022-23

Rainwater Harvesting, 2022-23

PO. NSS

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Event Name: _____ Date: 29/1/23

Program Officer Sign: _____ Leader's Sign: _____

Sr. No	NAME	BRANCH	SIGN
1	Shravan Tawade	EXTC	
2.	Prerna Gawali	COMPS	
3	Prajakta P. Borse	CIVIL	
4	Tejal Mendhe	IT	
5	Aayush . Jha	CSE(DS)	
6	Nikita Mundaye	COMPS	
7.	Jay Prajapati	COMP	
8	Vijwal Upadhyay	Mech	
9	Soham Mowadkar	Mech	
10	KSHITIJ PATIL	COMPS	
11	Chaitanya Patil	COMPS	
12.	Dhruv. P. PURAV	Civil	
13.	Abhishek Mahi	IT	
14.	Sachin . P. Rai	MECH	
15	Pratham Ingawale	Comps	
16	Siddhi Jangam	CSE (DS)	
17	Gauravi Patankar	AI & DS	
18	Hrushikesh Shetty	COMPS	
19	Tejas Puchadia	MECH	
20	Samadhan Salve	MECH	
21	Prathamesh More	Mech	
22	Janvi Chavan	CSE	
23	Prinshi Jha	CSE	
24	Shubham Nakashe	Comps	
25	Rohit Sachin Redekar	COMPS	
26	Onkar Suryavanshi	COMPS	
27	Abhishek Gharat	Mech	
28.	Devisha Shetty	CIVIL	
29	Sirajuddin Syed	Mech	
30	Bhupeksha Patil	Comps	
31	Prerna Kanikar	Comps	
32	Vedant Chavan	COMPS	
33	Pallavi Thakur	IT	
34	Nihanika. R. Das	MECH	
35.	Anush Singh	Mech	
36	Ankur Saha J.	Mech	
37	Aditi Rathod	Mech	
38	Urvashi Patel	CSE (DS)	
39	Suryanarayan Choudhury	AI/DS	
40	Jakshij Shetty	COMPS	
41	Sushant Shetty		

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2022-23)

Event Name: _____ Date: 29/1/23

Program Officer Sign: _____ Leader's Sign: _____

Sr. No	NAME	BRANCH	SIGN
42	Radha Vishwakarma	Comps	Radha
43	Harshal Bhamare	CSE	
44	Nrushti Sanghavi	CSE	
45	Sujash P. Shelar	COMPS	
46	Ankita S. Bhosle	INST	
47	CHETAN JAWALE	AI & DS	
48	Ragini Nair	INST	
49	Archa Gadhav	Comps	
50	Aishlesha Rajput	IT	
51	Anagha Francis	Mech	
52	Vaibhav Deokar	IT	
53	Dr. Pradip Gulbhile 2 hours	FE	
54	Dr. Swapna Borde 2 PM left	Comp	
55	Shobhana S Shirsat 2 PM left	FE	
56	Ms. Harshada H. Tandel 2 PM left	Comp	
57	Malkar Pandla	Civil	
58	Deepak Patil	Mech	
59	Krish Vaity	Mech	

Yadav
P.O. NSS

Vidyavardhini's College of Engineering & Technology

K. T. Marg, Near Railway Station, Vasai Road(W), Dist. Palghar, Pin. 401202

Tree Plantation

Activity Report

Academic Year	2021-22
Title of the activity	TREE PLANTATION
Date of the activity	28-07-2021
Description of the activity	Tree plantation drive on the occassion of World Nature Conservation Day between 28th July to 15th August 2021
Venue of the event	VCET
Organizing committee	NSS VCET
Number of participants	53

Dr. Pradip Gulbhile
Programme Officer, NSS
VCET, Vasai

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2021-22)

Date:- 28 July 2021

To,
The Principal
VCET.

Subject: Report on Tree Plantation Drive, 28 July 2021

The NSS Committee of Vidyavardhini's College of Engineering and Technology, Vasai organised a Tree Plantation Drive on the occasion of World Nature Conservation Day between 28th July, 2021 and 15th August, 2021. Due to the pandemic situation, this campaign was implemented by the participants in the comfort of their home.

Since mass gatherings were not possible and were not allowed, the participants were asked to plant saplings in their respective locality and share their pictures while planting. The main objective of this campaign was to raise awareness and consciousness about the environment among the people. This is an important step of afforestation to maintain ecological balance of nature. Planting trees is especially important to protect our environment against air pollution and global warming.

This event was a huge success, empowering students with substantial knowledge of the environment and plants.

Thank You,

Dr.Pradip Gulbhile
Programme Officer
NSS

Tree Plantation, 2021-2022

Vidyavardhini's College of Engineering & Technology
K.T. Marg, Vasai Road (W), Palghar – 401202

N.S.S. Committee (2021-22)

Tree Plantation 2021-22		
Email	Name	Branch
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sahil.201012101@vcet.edu.in	Sahil Swapnil Patil	MECHANICAL

53

RAGINI NAIR
N.SS LEADER

URMIKSHA TAWADE
UDAAN PRESIDENT

Course Code	Course Name	Credits
ILO8021	Project Management	03

Objectives:

1. To familiarize the students with the use of a structured methodology/approach for each and every unique project undertaken, including utilizing project management concepts, tools and techniques.
2. To appraise the students with the project management life cycle and make them knowledgeable about the various phases from project initiation through closure.

Outcomes: Learner will be able to…

1. Apply selection criteria and select an appropriate project from different options.
2. Write work break down structure for a project and develop a schedule based on it.
3. Identify opportunities and threats to the project and decide an approach to deal with them strategically.
4. Use Earned value technique and determine & predict status of the project.
5. Capture lessons learned during project phases and document them for future reference

Module	Detailed Contents	Hrs
01	**Project Management Foundation:** Definition of a project, Project Vs Operations, Necessity of project management, Triple constraints, Project life cycles (typical & atypical) Project phases and stage gate process. Role of project manager. Negotiations and resolving conflicts. Project management in various organization structures. PM knowledge areas as per Project Management Institute (PMI).	5
02	**Initiating Projects:** How to get a project started, Selecting project strategically, Project selection models (Numeric /Scoring Models and Non-numeric models), Project portfolio process, Project sponsor and creating charter; Project proposal. Effective project team, Stages of team development & growth (forming, storming, norming & performing), team dynamics.	6
03	**Project Planning and Scheduling:** Work Breakdown structure (WBS) and linear responsibility chart, Interface Co-ordination and concurrent engineering, Project cost estimation and budgeting, Top down and bottoms up budgeting, Networking and Scheduling techniques. PERT, CPM, GANTT chart. Introduction to Project Management Information System (PMIS).	8
04	**Planning Projects:** Crashing project time, Resource loading and leveling, Goldratt's critical chain, Project Stakeholders and Communication plan. Risk Management in projects: Risk management planning, Risk identification and risk register. Qualitative and quantitative risk assessment, Probability and impact matrix. Risk response strategies for positive and negative risks	6
05	**5.1 Executing Projects:** Planning monitoring and controlling cycle. Information needs and reporting,	8

	engaging with all stakeholders of the projects. Team management, communication and project meetings. **Monitoring and Controlling Projects:** Earned Value Management techniques for measuring value of work completed; Using milestones for measurement; change requests and scope creep. Project audit. **Project Contracting** Project procurement management, contracting and outsourcing,	
06	**Project Leadership and Ethics:** Introduction to project leadership, ethics in projects. Multicultural and virtual projects. **Closing the Project:** Customer acceptance; Reasons of project termination, Various types of project terminations (Extinction, Addition, Integration, Starvation), Process of project termination, completing a final report; doing a lessons learned analysis; acknowledging successes and failures; Project management templates and other resources; Managing without authority; Areas of further study.	6

REFERENCES:

1. Jack Meredith & Samuel Mantel, Project Management: A managerial approach, Wiley India, 7thEd.
2. A Guide to the Project Management Body of Knowledge (PMBOK® Guide), 5th Ed,Project Management Institute PA, USA
3. Gido Clements, Project Management, Cengage Learning.
4. Gopalan, Project Management, , Wiley India
5. Dennis Lock, Project Management, Gower Publishing England, 9 th Ed.

Assessment:

Internal:
Assessment consists of two tests out of which; one should be compulsory class test and the other is either a class test or assignment on live problems or course project.

End Semester Theory Examination:
Some guidelines for setting up the question paper. Minimum 80% syllabus should be covered in question papers of end semester examination. **In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.**

1. Question paper will comprise of total six question
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

Click here for summary page

Vidyavardhini's College of Engineering & Technology

K.T. Marg, Near Railway Station, Vasai Road (W), Dist. Palghar, Pin. 401202

NSS Camp Activity

Activity Report

Academic Year	2018 – 19
Title of the activity	BLOOD DONATION CAMP
Date of the activity	02/04/2019
Description of the activity	ORGANISING TEAM ASSISTED THE DOCTOR AND DONORS WERE AWARDED BY CERTIFICATE FOR THEIR NOBLE DEED AT VCET
Venue of the event	SIR J. J. MAHANAGAR ORGANISED AT VCET
Organizing Committee	VCET NSS
Number of participants	276 (DONOR + VOLUNTEERS)

Dr. Pradip Gulbhile
Faculty Incharge, UDAAN
VCET, Vasai

SBTC SIR J.J.MAHANAGAR RAKTAPEDHI
MANAGED BY : STATE BLOOD TRANSFUSION COUNCIL
(Govt. of Maharashtra)

NABH
Accredited Blood Bank
Certificate No.- BB-2011-0027

DATE: 27/01/2020

TO,
The Principal
VERTAK ENGG COLLEGE ,
Vasai.
Mumbai .

Sub: Thank You for conducting a Blood Donation Camp!

Dear Sir,

We are grateful **to Mr.Pradip Gulbhile sir** for conducting a Blood Donation Drive at **Vartek Engg College,Vasai MUMBAI**.on 02^{sd} **APRIL.2019. (175)** volunteers donated blood to save precious lives.

We take this opportunity to thank all the blood donors for their noble gesture.

The arrangements during the drive were excellent, & your team member received our blood bank staff very courteously. Every member of your team deserves appreciation for the sincerity and commitment towards making the Blood Donation camp successful.

We consider it a privilege to have associated with You and respected you for being a true cooperate citizen. Kindly revert back for any quires or suggestions to improve the arrangements during the Blood donation drive.

Looking forward for next meeting

Thanking you,

Yours sincerely,

Dr.Hitesh Pagare
Medical Director

Ajay R.Bhise
(Public Relation Officer)
Sir J.J.Mahanagar Raktapedhi,
near Sir J.J.Marg Police station
Byculla, Mumbai 400008
MOB:-9869403777

Vidyavardhini's College of Engineering and Technology , vasai

8 th APRIL 2019

To

The Principal

Vcet

Subject : Report on Blood Donation Camp – A Contribution To Save Lives

Dear Sir ,

A Blood Donation Camp was organised by the Udaan Committee of Vidhyavardhini's College Of Engineering and Technology in association with Lions Club of Vasai Unique on 2nd April 2019in room no 501 of the college.

The camp was inaugurated by Mr.Ajay Bhise , (PRO) Sir J.J.Mhanagar Rakthpedhi, the faculty Incharge- Prof. Pradip Gulbhile and the President of Udaan – Mohammad Pirkhan along with the esteemed personalities of the Lions Club. The camp was started by 10:00 am. The joy and the will, to donate blood magnetically attracted tremendous students as well as the faculty members to give their contribution in expanding the horizons of helping the needy. The list of donors soon crossed the count of 100. The zeal and endeavours of all the volunteers was worth observing and acknowledging. The registration desk helped the donors to take their first step by helping them with the forms and precautions.

The organising team took similar great efforts to handle and assist the team of Doctors. The refreshment team took utmost care of providing the donors with healthy snacks and juices. The donors were awarded by certificate for their noble deed. All the volunteers and donors along with the members of UDAAN and LIONS CLUB transformed the camp into a successful, grand and memorable event.

The camp ended successfully with total **175** bottles of blood donated .The Blood bank Sir J.JMahanagar Rakthpedhi , government of Maharashtra , collected the blood units The camp clearly flourished the idea of humanity and spreading happiness. The moments were captured as memories to be remembered and cherished forever.

Thank you

DR.Pradip Gulbhile

Staff Incharge

UDAAN

UDAAN

A flight towards change...

V.C.E.T.

K.T. Marg, Vasai Road (W), Palghar – 401202

Date- 19/03/2019

Annual Donation Camp – A Chance To Illuminate Others Life With Happiness

To,

The Principal,

VCET.

Subject: Permission to conduct Blood Donation Camp.

Respected sir,

Moving forward with its noble cause of helping the needy, Udaan committee is willing to conduct Blood Donation Camp in our college on 2nd April, 2019. We will also be requiring a hall to conduct the following event.

Please do grant us the permission at the earliest.

Thanking you.

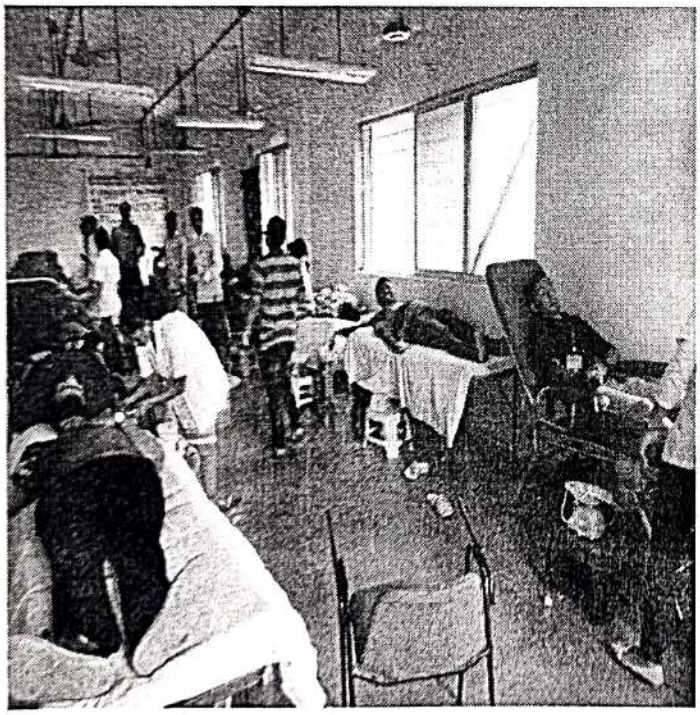
Yours sincerely,

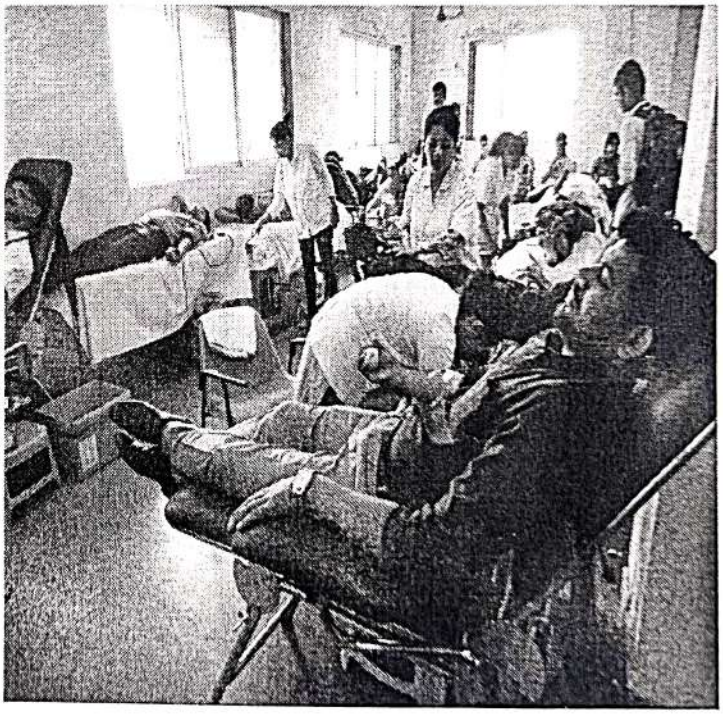
Dr. H.V. Vankudre
(Principal)

Prof.Pradip Gulbhile
(Faculty Incharge)

Anagha Pasalkar
(President)


BLOOD DONATION CAMP 2019





BLOOD DONATION ATTENDANCE

	NAME	Phone1.no	Branch	Sign	Certificate
1	Sarvarya Yash Jeisukh	7045365243	Mech		6458
2	Pankaj Prakash Gidwani	9073687550	EXTC		6455
3	Jangli kumar Chandrakant	8411869605	Mech		6457
4 5	Rathod Parth Ishubhai	9004491030	MECH		6454
6	Vasava Vishi Dipesh	8805062103	EXTC		6459
7	Chhawane Pratik Suvesh	8007985130	EXTC		6460
8	Iyer Shaunk Venkatramani	9274600452	EXTC		6461
9	Valaki Akshay	7030238697	comps.		6463
10	Sharma Dinesh Suresh	8108606801	comps.		6466
11	Rohit Shamrao Hulnwar.	9702435089	Mech.		6465
12	Jobalia Yash hitesh.	9769864884	I.T		6469
13	Akshay Deopurkar.	7276475430	Mech		6467
14	Vedant Devendra Patil.	7887509757	Comp.		6470
15	Dhaval Tejas Gaupat	7738205287	Mech		
16	Tejas Prasanth.	8554845286	INST		6464
17	Parekh Dhruv Shashikant	8446836232	IT		6479.
18	Jadhav Khushal madhav	8652587618	EXTC		6475
19	Megha V Trivedi	9764197184	INSTRU		6478
20	Rathani Dharmesh R -	9833847760	Civil		6476.
21	Bhalala Himanshu	9326367454	INFT		6483
22	Deorukhkar Jayesh Milind	9503088957	INFT		6480
ext. 23	Pansuriya Bhavik Mahesh	7715085218			6481.
24	Mayur Mahendra Pandhari	8879888641			6474.
25	Patel Pranav Ashok	7218999389	Mech		6473
26	Vaghani Ram Bhikalal	8080699912	INI		6477
27	Jadhav Akash Bhutesing	7507819545	IT		6580.
28	Vedpathak Rithwik Sanjiv	8983302961	COMP		6582
29	Thakur Sumit Nagin	9637861482	INSTRU		6583
30	Vasaikar Siddhant sunil	7045515158	COMP		6585
31	Patankar Parag Chandrakant	7758075860	IT		6584
32	Patel Takshil Hareshi	8655153556	Instru		6587
33	Geedh Pruthvi Omkar	9096251185	MECH		6589
34	Rathod Jay Dilip	7715960128	Instru		6586
35	Aniket Vijay Ganvir	9975433460	COMPS		6591
36	Rane Sarvesh Dayan	7152153024	INSTRU		6590
37	Vaidya Shivdas Bam	8614042	INSTRU		6588
38	Waghela Pratik	7977933817	EXTC		6593
39	Bhavik Mistry.	9833848 93	INSTRU		6595
40	Ratik Harish Prajapati	7029343317	Extc		6592
41	Prakash. H. Panda	7021276785	Civil		6594
42	Managaonkar Siddhesh.	9869078228	INST		6596
43	Dipak J. Chaudhari	9960453845			6598
44	Jitesh Agnihotri	9757233112	INST		6597
45	Jangam Abhishek Sadashiv	9765424193	INST		6601
46	Khour Chitresh Sanjay	9702122541	Mech		6599
47	Shaikh Mohd Mustafa Ali	8898835153	Mech		6603
48	Jadhav Sahil Ganpat	8108301909	Inst		6600
49	Sankhe Nitin Manoj	9869249312	COMP		6602
50	Raj Dighe	9137296036	MECH		6605
51	Shirsao Preetam Raju	7769067703	IT		6606
52	Yash Uday Pisat	8419545555	INST		6604
53	Rushikesh Deshmukh	9167878814	IT		6608
54	Aditya Vilas Dingre	9820045472			6609
	Isfahan Abdulhameed Mogral	9766218890	INST		6607

Certificates.

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153	Verma Anang Umesh		COMPS	Verma	6171
154	Trivedi Divang Amit	9028224555	INST	[illegible]	6174
155	Gaikwad Ganesh Manik	+02864338 9	EXTC	Ganesh	6173
156	Prabhu Manoj Narasimha	9156463867	INST	Prabhu	6175
157	Sambare Hash Rajendra	7875249937	Mech	[illegible]	6176
158	Gaikar Pratik Pralin	8097576476	INST	[illegible]	6177
159	Kamble Shashank Sanjay	9225133231	IT	[illegible]	6178
160.	Anik Abhishek Damodar	8652435091	INST	[illegible]	6179
161	Ghasal Sumit Sandip	8419957250	Civil	[illegible]	6180
162	Karale Prathamesh D.	8149230474	Civil	[illegible]	6181
163	Babar Shivaji Laxman	8898060716	INST	[illegible]	6182
164	Gadekar Tejas Rajendra	9766236068	Civil	[illegible]	6183
165	Patil Ashirwad Devendra	+02815202 1	Mech	[illegible]	6186
166	Ardalkar Omkar Subash	9594084090	INST	[illegible]	6185
167	Jannauj Vivek Patil	9096877095			6184
168	Chauhan Pritesh S	+7680853 57	Mech	[illegible]	6188
169	More Pramod Suresh	9028597 850	Mech	[illegible]	6187
170	Akshay Rathod	7507803731	Mech	[illegible]	6189
171	Gupta Nikhil Manojkumar	9920292874	Mech	[illegible]	6190
172	Ghone Ojas Vday	9757483340	INST	[illegible]	6192
173	Kudtarkar Kaustubh J	9619028661	INST	[illegible]	6191
174	Deshpande Atharva A	9757340526	COMP	[illegible]	6193
175	Anagha J. Patil	9004078402	IT	[illegible]	6196
176	Kundar Sachin Raghu	8454813187	IT	[illegible]	6194
177	Kharat Deepak Dilip	8097238181	IT	[illegible]	6195
178	Vishal Vilas Naik	+2088 13848	Comp	[illegible]	6197
179	Parth Bhalodia	9322040755		[illegible]	6198
180.	Patil Mayur Naresh	8983189303	INST	[illegible]	6199
181	Mauze Aditya Anant	8149639748	IT	[illegible]	6200
182	Naik Archit Mohan	+745 0299 77	COMPS	[illegible]	6272
183	Abhishek Pathe Bejlang	9869178386	CIVIL	[illegible]	6275
184	Umri Saleel Jayant	9969684556	Mech	[illegible]	6274
185	Pratyush Shetty	705738881 9	INST	[illegible]	6273
186	Solanki Ankit Govind	9870159123	INST	[illegible]	6276
187	Sachin Desai Shri Dinesh	9967129468	INST	[illegible]	6279
188	Baperkar Shreepad Bhau	+79847 9867	INST	[illegible]	6280
189	Aman Vasantrao Dabli	8 055240197	CIVIL	[illegible]	6281
190	Pravin Ramesh Jadhav	9420437410	CIVIL	Jadhav	6282
191	Niwant Salunke Sharad	8169601140	COMPS	[illegible]	6277
192	Chavan Karan Jaysing	+3784111456	MECH	[illegible]	6278
193	Wankhede Mayuresh	9967173653	Mech	[illegible]	6287
194	Bade Swapnil Ranjit	9552152633	Mech	[illegible]	6283
195	Salunke Omkar Sukas	1082 04 5710	E-X-T-C	[illegible]	6285
196	Shingade Ajay Babu	+4105054 08		[illegible]	6284
197	Kapse Saurabh Raman	8433936947	MECH	[illegible]	6286
198	Anuj Singh	9922700098	MECH	[illegible]	6288
199	Jansan Sudesh Rajendra	8828090972	INST	[illegible]	6289
200	Hitesh Chaudhary	+7679514 89	Civil	[illegible]	6295

Anagha P. (President)

Rasalkar

Certificates.

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202	Yadav Dhiraj Sureshchan	9156508359	Mech		6294
203	Sheth Dharmik Mitesh	9665769126	EXTC		6293
204	Cerejo Astel Ashley	7028257363	MECH		6291
205	Gondal Siddesh Rathish	9970565066	INST		6290
206	Sunil Digambar Japtap	7039953495			6298
207	Ashutosh Yadav	9820612528	CIVIL		6301
208	Deomukhkar Nikul Nitin	9029458966	INST		6299
209	Sudin Nair	7498138396	External		6302
210	Asukar Siddhant Dilip	8908794638	INST		6306
211	Dhanesh Anil Chavan	8097943415	CIVIL		6297
212	Manohar Dilip Mistry	8369153870	Mech		6304
213	Chadhaik Omkar Sandip	9619248916	Mech		6305
214	Khatdeo Shubham Sanjay	7738728283	Civil		6300
215	Bhosale Karan Muldhar	9757039561	Mech		6310
216	Akash Chandrakant Bhoir	9892645823	CIVIL		6296
217	Ashish V. Vannalf	9990120301	IT		6313
218	Saurabh Suriyang Rajkar	9757200044	CIVIL		6308
219	Kodial Anirudh Pranav	7744911424	Comps		6303
220	Kunjithesh Ramesh Kuttattu	7578630040	Civil		6311
221	Saurabh Ramprakash Yadav	7757921706	Civil		6309
222	Chougule Sahil Jagannath	9172982618	INST		6307
223	Ghalabi Jash Mayur	9820403998	Comps		6312
224	Swapnil Sampat Ratnate	9869648893	Civil	S.S. Ratnate	6314
225	Labh Sunny Nemidas	9970168661	INST		6316
226	Yadav Rohit Ramprasad	9870321701	Civil		6315
227	Singh Swaraj Ramprajas	7021735940	IT		6317
228	Hatwari Shabbir	8291430896	INST		6319
229	Lilan Ghanshyam Nagariya	9619388996	Comps		6318
230	Palve Vishwas	9870300102	Mech		6324
231	Anmol Chaudhari	7798493490	Mech		6322
232	Shah Rutvik Manoj	9137364952	EXTC		6320
233	Siddesh Nandkumar Salvi	8108443371	Comps		6323
234	Jenik Abhay Naresh	8697092575	IT		6329
235	Kunal. Chavan	9325690481	MECH		6331
236	Dangiya Hardik Govind	9137631744	IT		6321
237	Sodha Rajdeep Bharat	7208213422	IT		6330
238	Mokal Swapnil Shankar	7208624226	MECH		6327
239	Gurav Sairaj Sanjay	7506519905	EXTC		6328
240	Prabhu Shreya Devidasraya	9923052911	INST		6332
241	Satish Mane	8484057861	Mech		6325
242	Kunkesh Patel	9987110328	INST		6326
243	Prathamesh Karambe Anil	9860589750	IT		6333
244	Omkar Tejas Deepak	8459690742	INST		6335
245	Pol Samir Sabir	9720738904	IT		6337
246	Mistry Jushal Girish	7875973503	IT		6334
247	Agholi Rajesh Patel	9867375781	IT		6336
248	Singhvi Rishi Anurag	9649158208	Mech		6328
249	Wadwalkar Prathamesh [illegible]	[illegible]50362[illegible]	Mech		6339
250	Nimad Rajesh Kumar	[illegible]69965	INST		6456

SR.NO.	NAME	Mobile NO.	Branch	Sign	
251	Prajapati Dhru Narendra	9326225011	I.T	Dhruv	6468
252	Luharpanchal Karan Jitendra	8879580946	Mech	Amab	6472
253	Late Ameya Mangesh	9764350984	Comps		6471
254	Mistry Kautarth Ramesh	9619684011	CIVIL		6482
255	Upadhyay Atulkumar D	9867505780	IT		6581
256	Jain Sanit Rajeev	9987366709	ENST		6610
257	Yadav Akash Arjun	8355825004			6613
258	Vishal .V. Pande	9423786802	INST	V.Pande	6611
259	Abhishek Holani	8879567978	COMP	Abhishek	6612
260	Poojari Rahul Karunakar	9769646283	COMP		6614
261	Gavali Viraj Vijaykumar	7414901414	Civil		6615
262	Sanghvaijka Chintan Ketan	9167047214	EXTC	Chand	6620
263	Bhosale Neehal Deepak	7506560012	EXTC	NBhosale	6618
264	Chaubey Hemant Omprakash	9820341831	EXTC	Hemant	6619
265	Kumar Nihal Sunil	8451976248	EXTC	Nihal	6617
266	Sunil Patra	9860449360			6616
267	Viraj Ravindra ~~Jadhav~~ Jadhav	9004526020	EXTC		6621
268	Shirsat Buddhghosh R	9322440522	INFT		6622
269	Patil Yadnit Mohan	9561802276	COMPS		6623
270	Nadar Mukesh Selvan	7678083856	EXTC		6624
271	Walavalkar Vedant Sanjeev	9146590601	COMPS		6625
272	Manoj Kumar Pandey	9246590601	COMPS	Manoj	6626
273	Mendul Kumar	9246842184	COMPS		6627
274	Komal Chavhala	2948894220	IT	Komal	6628
275	Pradip Gavade	9654289432	COMPS	Pradip	6629
276	Ram Sinha	8865429346	COMPS.		6630

Anagha P. (President)

Basalkar

Course Code	Course Name	Credits
CSL504	Business Communication & Ethics	02
Course Rationale	This curriculum is designed to build up a professional and ethical approach, effective oral and written communication with enhanced soft skills. Through practical sessions, it augments student's interactive competence and confidence to respond appropriately and creatively to the implied challenges of the global Industrial and Corporate requirements. It further inculcates the social responsibility of engineers as technical citizens.	
Course Objectives		
1	To discern and develop an effective style of writing important technical/business documents.	
2	To investigate possible resources and plan a successful job campaign.	
3	To understand the dynamics of professional communication in the form of group discussions, meetings, etc. required for career enhancement.	
4	To develop creative and impactful presentation skills.	
5	To analyze personal traits, interests, values, aptitudes and skills.	
6	To understand the importance of integrity and develop a personal code of ethics.	
Course Outcomes: At the end of the course, the student will be able to		
1	plan and prepare effective business/ technical documents which will in turn provide solid foundation for their future managerial roles.	
2	strategize their personal and professional skills to build a professional image and meet the demands of the industry.	
3	emerge succe sfu in group di cussion , meetings and result-oriented gr eat e sol tions in group communicati n si ati s.	
4	deliver ersua ive a d profes nal present ions.	
5	de lop reat e thi king and in personal s ills equi d f r effect e professional communication.	
6	apply codes of ethical conduct, personal integrity and norms of organizational behaviour.	

Module	Contents	Hours
1	**ADVANCED TECHNICAL WRITING: PROJECT/PROBLEM BASED LEARNING (PBL)**	06
	Purpose and Classification of Reports: **Classification on the basis of:** Subject Matter (Technology, Accounting, Finance, Marketing, etc.), Time Interval (Periodic, One-time, Special), Function (Informational, Analytical, etc.), Physical Factors (Memorandum, Letter, Short & Long) **Parts of a Long Formal Report:** Prefatory Parts (Front Matter), Report Proper (Main Body), Appended Parts (Back Matter) **Language and Style of Reports:** Tense, Person & Voice of Reports, Numbering Style of Chapters, Sections, Figures, Tables and Equations, Referencing Styles in APA & MLA Format, Proofreading through Plagiarism Checkers **Definition, Purpose & Types of Proposals:** Solicited (in conformance with RFP) & Unsolicited Proposals, Types (Short and Long proposals) **Parts of a Proposal:** Elements, Scope and Limitations, Conclusion **Technical Paper Writing:** Parts of a Technical Paper (Abstract, Introduction, Research Methods, Findings and Analysis, Discussion, Limitations, Future	

	Scope and References), Language and Formatting, Referencing in IEEE Format	
2	**EMPLOYMENT SKILLS**	**06**
	Cover Letter & Resume: Parts and Content of a Cover Letter, Difference between Bio-data, Resume & CV, Essential Parts of a Resume, Types of Resume (Chronological, Functional & Combination) **Statement of Purpose:** Importance of SOP, Tips for Writing an Effective SOP **Verbal Aptitude Test:** Modelled on CAT, GRE, GMAT exams **Group Discussions:** Purpose of a GD, Parameters of Evaluating a GD, Types of GDs (Normal, Case-based & Role Plays), GD Etiquettes **Personal Interviews:** Planning and Preparation, Types of Questions, Types of Interviews (Structured, Stress, Behavioural, Problem Solving & Case-based), Modes of Interviews: Face-to-face (One-to one and Panel) Telephonic, Virtual	
3	**BUSINESS MEETINGS**	**02**
	Conducting Business Meetings: Types of Meetings, Roles and Responsibilities of Chairperson, Secretary and Members, Meeting Etiquette **Documentation:** Notice, Agenda, Minutes	
4	**TECHNICAL/ BUSINESS PRESENTATIONS**	**02**
	Effective Presentation Strategies: Defining Purpose, Analyzing Audience, Location and Event, Gathering, Selecting &Arranging Material, structuring a Presentation, Making Effective Slides, Types of Presentations Aids, Closing a Presentation, Platform skills **Group Presentations:** Sharing Responsibility in a Team, Building the contents and visuals together, Transition Phases	
5	**INTERPERSONAL SKILLS**	**08**
	Interpersonal Skills: Emotional Intelligence, Leadership & Motivation, Conflict Management & Negotiation, Time Management, Assertiveness, Decision Making **Start-up Skills:** Financial Literacy, Risk Assessment, Data Analysis (e.g. Consumer Behaviour, Market Trends, etc.)	
6	**CORPORATE ETHICS**	**02**
	Intellectual Property Rights: Copyrights, Trademarks, Patents, Industrial Designs, Geographical Indications, Integrated Circuits, Trade Secrets (Undisclosed Information) **Case Studies:** Cases related to Business/ Corporate Ethics	

List of assignments: (In the form of Short Notes, Questionnaire/ MCQ Test, Role Play, Case Study, Quiz, etc.)	
Sr. No.	**Title of Experiment**
1	Cover Letter and Resume
2	Short Proposal
3	Meeting Documentation
4	Writing a Technical Paper/ Analyzing a Published Technical Paper
5	Writing a SOP
6	IPR
7	Interpersonal Skills
Note:	

1	The Main Body of the project/book report should contain minimum 25 pages (excluding Front and Back matter).
2	The group size for the final report presentation should not be less than 5 students or exceed 7 students.
3	There will be an end–semester presentation based on the book report.
Assessment:	
Term Work:	
1	Term work shall consist of minimum 8 experiments.
2	The distribution of marks for term work shall be as follows: Assignment : 10 Marks Attendance : 5 Marks Presentation slides : 5 Marks Book Report (hard copy) : 5 Marks
3	The final certification and acceptance of term work ensures the satisfactory performance of laboratory work and minimum passing in the term work.
Internal oral: **Oral Examination will be based on a GD & the Project/Book Report presentation.**	
	Group Discussion : 10 marks Project Presentation : 10 Marks Group Dynamics : 5 Marks
Books Recommended: Textbooks and Reference books	
1	Arms, V. M. (2005). *Humanities for the engineering curriculum: With selected chapters from Olsen/Huckin Technical writing and professional communication,* ...econd edition. Bosto..., Ma... McGraw-Hill.
2	Bov...e, C. L., & Thill, ... V. ...2021). *Bu...ness commu...icatio... to...ay*. U...per ...ad...le Riv... NJ: ...ea...on.
3	Butterfield, J. (2017). *Verbal communication: Soft skills for a ...igital wo...place*. Boston, MA: Cengage Learning.
4	Masters, L. A., Wallace, H. R., & Harwood, L. (2011). *Personal development for life and work*. Mason: South-Western Cengage Learning.
5	Robbins, S. P., Judge, T. A., & Campbell, T. T. (2017). *Organizational behaviour*. Harlow, England: Pearson.
6	Meenakshi Raman, Sangeeta Sharma (2004) Technical Communication, Principles and Practice. Oxford University Press
7	Archana Ram (2018) Place Mentor, Tests of Aptitude for Placement Readiness. Oxford University Press
8	Sanjay Kumar &PushpLata (2018). Communication Skills a workbook, New Delhi: Oxford University Press.

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Course Code:	Course Title	Credit
CSC602	Cryptography & System Security	3

Prerequisite: Computer Networks	
Course Objectives:	
1	To introduce classical encryption techniques and concepts of modular arithmetic and number theory.
2	To explore the working principles and utilities of various cryptographic algorithms including secret key cryptography, hashes and message digests, and public key algorithms
3	To explore the design issues and working principles of various authentication protocols, PKI standards and various secure communication standards including Kerberos, IPsec, and SSL/TLS.
4	To develop the ability to use existing cryptographic utilities to build programs for secure communication
Course Outcomes:	
1	Understand system security goals and concepts, classical encryption techniques and acquire fundamental knowledge on the concepts of modular arithmetic and number theory
2	Understand, compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication
3	Apply different message digest and digital signature algorithms to verify integrity and achieve authentication and design secure applications
4	Understand network security basics, analyse different attacks on networks and evaluate the performance of firewalls and security protocols like SSL, IPSec, and PGP
5	Analyse and apply system security concept to recognize malicious code

Module		Content	Hrs
1		**Introduction - Number Theory and Basic Cryptography**	**8**
	1.1	Security Goals, Attacks, Services and Mechanisms, Techniques. Modular Arithmetic: Euclidean Algorithm, Fermat‘s and Euler‘s theorem	
	1.2	Classical Encryption techniques, Symmetric cipher model, mono-alphabetic and polyalphabetic substitution techniques: Vigenere cipher, playfair cipher, Hill cipher, transposition techniques: keyed and keyless transposition ciphers	
2		**Symmetric and Asymmetric key Cryptography and key Management**	**11**
	2.1	Block cipher principles, block cipher modes of operation, DES, Double DES, Triple DES, Advanced Encryption Standard (AES), Stream Ciphers: RC4 algorithm.	
	2.2	Public key cryptography: Principles of public key cryptosystems- The RSA Cryptosystem, The knapsack cryptosystem	
	2.3	Symmetric Key Distribution: KDC, Needham-schroeder protocol. Kerberos: Kerberos Authentication protocol, Symmetric key agreement: Diffie Hellman, Public key Distribution: Digital Certificate: X.509, PKI	
3		**Cryptographic Hash Functions**	**3**
	3.1	Cryptographic hash functions, Properties of secure hash function, MD5, SHA-1, MAC, HMAC, CMAC.	
4		**Authentication Protocols & Digital Signature Schemes**	**5**
	4.1	User Authentication, Entity Authentication: Password Base, Challenge Response Based	

	4.2	Digital Signature, Attacks on Digital Signature, Digital Signature Scheme: RSA	
5		**Network Security and Applications**	**9**
	5.1	Network security basics: TCP/IP vulnerabilities (Layer wise), Network Attacks: Packet Sniffing, ARP spoofing, port scanning, IP spoofing	
	5.2	Denial of Service: DOS attacks, ICMP flood, SYN flood, UDP flood, Distributed Denial of Service	
	5.3	Internet Security Protocols: PGP, SSL, IPSEC. Network security: IDS, Firewalls	
6		**System Security**	**3**
	6.1	Buffer Overflow, malicious Programs: Worms and Viruses, SQL injection	

Textbooks:	
1	William Stallings, ***"Cryptography and Network Security, Principles and Practice"***, 6th Edition, Pearson Education, March 2013
2	Behrouz A. Ferouzan, ***"Cryptography & Network Security"***, Tata McGraw Hill
3	Behrouz A. Forouzan & Debdeep Mukhopadhyay, ***"Cryptography and Network Security"*** 3rd Edition, McGraw Hill

Referecebooks:	
1	Bruce Schneier, ***"Applied Cryptography, Protocols Algorithms and Source Code in C",*** Second Edition, Wiley.
2	Atul Kahate, ***"Cryptography and Network Security",*** Tata McGraw-Hill Education, 2003.
3	Eric Cole, ***"Network Security Bible",*** Second Edition, Wiley, 2011.

Assessment:	
Internal Assessment:	
Assessment consists of two class tests of 20 marks each. The first class test is to be conducted when approx. 40% syllabus is completed and second class test when additional 40% syllabus is completed. Duration of each test shall be one hour.	
End Semester Theory Examination:	
1	Question paper will comprise of total six questions.
2	All question carries equal marks
3	Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4	Only Four question need to be solved.
5	In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.

Useful Links	
1	https://github.com/cmin764/cmiN/blob/master/FII/L3/SI/book/W.Stallings%20-%20Cryptography%20and%20Network%20Security%206th%20ed.pdf
2	https://docs.google.com/file/d/0B5F6yMKYDUbrYXE4X1ZCUHpLNnc/view

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Course Code	Course Name	Credits
ILO8025	Professional Ethics and Corporate Social Responsibility (CSR)	03

Objectives:

1. To understand professional ethics in business
2. To recognized corporate social responsibility

Outcomes: Learner will be able to…

1. Understand rights and duties of business
2. Distinguish different aspects of corporate social responsibility
3. Demonstrate professional ethics
4. Understand legal aspects of corporate social responsibility

Module	Detailed Contents	Hrs
01	**Professional Ethics and Business:** The Nature of Business Ethics; Ethical Issues in Business; Moral Responsibility and Blame; Utilitarianism: Weighing Social Costs and Benefits; Rights and Duties of Business	04
02	**Professional Ethics in the Marketplace:** Perfect Competition; Monopoly Competition; Oligopolistic Competition; Oligopolies and Public Policy **Professional Ethics and the Environment:** Dimensions of Pollution and Resource Depletion; Ethics of Pollution Control; Ethics of Conserving Depletable Resources	08
03	**Professional Ethics of Consumer Protection:** Markets and Consumer Protection; Contract View of Business Firm's Duties to Consumers; Due Care Theory; Advertising Ethics; Consumer Privacy **Professional Ethics of Job Discrimination:** Nature of Job Discrimination; Extent of Discrimination; Reservation of Jobs.	06
04	**Introduction to Corporate Social Responsibility:** Potential Business Benefits—Triple bottom line, Human resources, Risk management, Supplier relations; Criticisms and concerns—Nature of business; Motives; Misdirection. Trajectory of Corporate Social Responsibility in India	05
05	**Corporate Social Responsibility:** Articulation of Gandhian Trusteeship Corporate Social Responsibility and Small and Medium Enterprises (SMEs) in India, Corporate Social Responsibility and Public-Private Partnership (PPP) in India	08
06	**Corporate Social Responsibility in Globalizing India:** Corporate Social Responsibility Voluntary Guidelines, 2009 issued by the Ministry of Corporate Affairs, Government of India, Legal Aspects of Corporate Social Responsibility—Companies Act, 2013.	08

REFERENCES:

1. Business Ethics: Texts and Cases from the Indian Perspective (2013) by Ananda Das Gupta; Publisher: Springer.
2. Corporate Social Responsibility: Readings and Cases in a Global Context (2007) by Andrew Crane, Dirk Matten, Laura Spence; Publisher: Routledge.
3. Business Ethics: Concepts and Cases, 7th Edition (2011) by Manuel G. Velasquez; Publisher: Pearson, New Delhi.
4. Corporate Social Responsibility in India (2015) by BidyutChakrabarty, Routledge, New Delhi.

Assessment:

Internal:
Assessment consists of two tests out of which; one should be compulsory class test and the other is either a class test or assignment on live problems or course project.

End Semester Theory Examination:
Some guidelines for setting up the question paper. Minimum 80% syllabus should be covered in question papers of end semester examination. **In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.**

1. Question paper will comprise of total six question
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

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Course Code	Course Name	Credits
ILO7016	Cyber Security and Laws	03

Syllabus Cyber Security and Laws

Objectives:

1. To understand and identify different types cybercrime and cyber law
2. To recognized Indian IT Act 2008 and its latest amendments
3. To learn various types of security standards compliances

Outcomes: Learner will be able to…

1. Understand the concept of cybercrime and its effect on outside world
2. Interpret and apply IT law in various legal issues
3. Distinguish different aspects of cyber law
4. Apply Information Security Standards compliance during software design and development

Module	Detailed Contents	Hrs
01	**Introduction to Cybercrime:** Cybercrime definition and origins of the world, Cybercrime and information security, Classifications of cybercrime, Cybercrime and the Indian ITA 2000, A global Perspective on cybercrimes.	4
02	**Cyber offenses & Cybercrime:** How criminal plan the attacks, Social Engg, Cyber stalking, Cyber café and Cybercrimes, Bot nets, Attack vector, Cloud computing, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit Card Frauds in Mobile and Wireless Computing Era, Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices, Authentication Service Security, Attacks on Mobile/Cell Phones, Mobile Devices: Security Implications for Organizations, Organizational Measures for Handling Mobile, Devices-Related Security Issues, Organizational Security Policies and Measures in Mobile Computing Era, Laptops	9
03	**Tools and Methods Used in Cyber line** Phishing, Password Cracking, Key loggers and Spywares, Virus and Worms, Steganography, DoS and DDoS Attacks, SQL Injection, Buffer Over Flow, Attacks on Wireless Networks, Phishing, Identity Theft (ID Theft)	6
04	**The Concept of Cyberspace** E-Commerce , The Contract Aspects in Cyber Law ,The Security Aspect of Cyber Law ,The Intellectual Property Aspect in Cyber Law, The Evidence Aspect in Cyber Law , The Criminal Aspect in Cyber Law, GlobalTrends in Cyber Law , Legal Framework for Electronic Data Interchange Law Relating to Electronic Banking , The Need for an Indian Cyber Law	8
05	**Indian IT Act.** Cyber Crime and Criminal Justice : Penalties, Adjudication and Appeals Under the IT Act, 2000, IT Act. 2008 and its Amendments	6
06	**Information Security Standard compliances** SOX, GLBA, HIPAA, ISO, FISMA, NERC, PCI.	6

Assessment:

Internal:
Assessment consists of two tests out of which; one should be compulsory class test and the other is either a class test or assignment on live problems or course project.

End Semester Theory Examination:
Some guidelines for setting up the question paper. Minimum 80% syllabus should be covered in question papers of end semester examination.

In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.

1. Question paper will comprise of total six question
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

REFERENCES:

1. Nina Godbole, Sunit Belapure, *Cyber Security*, Wiley India, New Delhi
2. The Indian Cyber Law by Suresh T. Vishwanathan; Bharat Law House New Delhi
3. The Information technology Act, 2000; Bare Act- Professional Book Publishers, New Delhi.
4. Cyber Law & Cyber Crimes By Advocate Prashant Mali; Snow White Publications, Mumbai
5. Nina Godbole, *Information Systems Security*, Wiley India, New Delhi
6. Kennetch J. Knapp, *Cyber Security &Global Information Assurance* Information Science Publishing.
7. William Stallings, *Cryptography and Network Security*, Pearson Publication
8. Websites for more information is available on : The Information Technology ACT, 2008- TIFR : https://www.tifrh.res.in
9. Website for more information , A Compliance Primer for IT professional : https://www.sans.org/reading-room/whitepapers/compliance/compliance-primer-professionals- 33538

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Course Code:	Course Title	Credit
CSDC8012	Digital Forensics	3

Prerequisite: Computer Network, Cryptography and System Security	
Course Objectives:	
1	To discuss the need and process of digital forensics and Incident Response Methodology.
2	To explore the procedures for identification, preservation, and acquisition of digital evidence.
3	To explore techniques and tools used in digital forensics for Operating system and malware investigation .
4	To explore techniques and tools used for Mobile forensics and browser, email forensics
Course Outcomes:	
1	Discuss the phases of Digital Forensics and methodology to handle the computer security incident.
2	Describe the process of collection, analysis and recovery of the digital evidence.
3	Explore various tools to analyze malwares and acquired images of RAM/hard drive.
4	Acquire adequate perspectives of digital forensic investigation in mobile devices
5	Analyze the source and content authentication of emails and browsers.
6	Produce unambiguous investigation reports which offer valid conclusions.

Module		Content	Hrs
1		**Introduction to Digital Forensics**	**6**
	1.1	Digital ForensicsDefination, Digital Forensics Goals, Digital Forensics Categories - Computer Forensics, Mobile Forensics, Network Forensics, Database Forensics	
	1.2	Introduction to Incident - Computer Security Incident, Goals of Incident Response, CSIRT, Incident Response Methodology, Phase after detection of an incident	
2		**Digital Evidence, Forensics Duplication and Digital Evidence Acquisition**	**9**
	2.1	Digital evidence, Types of Digital Evidence, Challenges in acquiring Digital evidence, Admissibility of evidence, Challenges in evidence handling, Chain of Custody	
	2.2	Digital Forensics Examination Process - Seizure, Acquisition, Analysis, Reporting. Necessity of forensic duplication, Forensic image formats, Forensic duplication techniques,.	
	2.3	Acquiring Digital Evidence - Forensic Image File Format, Acquiring Volatile Memory (Live Acquisition), Acquiring Nonvolatile Memory (Static Acquisition), Hard Drive Imaging Risks and Challenges, Network Acquisition	
3		**Forensics Investigation**	**4**
	3.1	Analyzing Hard Drive Forensic Images, Analyzing RAM Forensic Image, Investigating Routers	
	3.2	Malware Analysis - Malware, Viruses, Worms, Essential skills and tools for Malware Analysis, List of Malware Analysis Tools and	

		Techniques	
4		**Windows and Unix Forensics Investigation**	**8**
	4.1	Investigating Windows Systems - File Recovery, Windows Recycle Bin Forensics, Data Carving, Windows Registry Analysis, USB Device Forensics, File Format Identification, Windows Features Forensics Analysis, Windows 10 Forensics, Cortana Forensics	
	4.2	Investigating Unix Systems - Reviewing Pertinent Logs, Performing Keyword Searches, Reviewing Relevant Files, Identifying Unauthorized User Accounts or Groups, Identifying Rogue Processes, Checking for Unauthorized Access Points, Analyzing Trust Relationships	
5		**Mobile Forensics**	**8**
	5.1	Android Forensics, Mobile Device Forensic Investigation - Storage location, Acquisition methods, Data Analysis	
	5.2	GPS forensics - GPS Evidentiary data, GPS Exchange Format (GPX), GPX Files, Extraction of Waypoints and TrackPoints, Display the Tracks on a Map.	
	5.3	SIM Cards Forensics - The Subscriber Identification Module (SIM), SIM Architecture, Security, Evidence Extraction.	
6		**Browser, Email Forensic & Forensic Investigation Reporting**	**4**
	6.1	Web Browser Forensics, Google chrome, Other web browser investigation Email forensics - Sender Policy Framework (SPF), Domain Key Identified Mail (DKIM), Domain based Message Authentication Reporting and Confirmation (DMARC)	
	6.2	Investigative Report Template, Layout of an Investigative Report, Guidelines for Writing a Report	

Textbooks:	
1	Kevin Mandia, Chris Prosise, “Incident Response and computer forensics”, Tata McGrawHill, 2006
2	Digital Forensics Basics A Practical Guide Using Windows OS — Nihad A. Hassan, APress Publication, 2019
3	Xiaodong Lin, “Introductory Computer Forensics: A Hands-on Practical Approach”, Springer Nature, 2018

Suggested MOOC Course Links	
1	Course on “Ethical Hacking” https://nptel.ac.in/courses/106/105/106105217/
2	Course on “Digital Forensics” https://onlinecourses.swayam2.ac.in/cec20_lb06/preview
3	Course on Cyber Incident Response https://www.coursera.org/learn/incident-response
4	Course on “Penetration Testing, Incident Responses and Forensics” https://www.coursera.org/learn/ibm-penetration-testing-incident-response-forensics

Assessment:

Internal Assessment:

Assessment consists of two class tests of 20 marks each. The first class test is to be conducted when approx. 40% syllabus is completed and second class test when additional 40% syllabus is completed. Duration of each test shall be one hour.

End Semester Theory Examination:

1	Question paper will comprise a total of six questions.
2	All question carries equal marks
3	Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4	Only Four questions need to be solved.
5	In question paper weightage of each module will be proportional to the number of respective lecture hours as mention in the syllabus.

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Semester VIII		
Course Code	**Course Name**	**Credits**
ILOC8013	**Institute Level Optional Course – II : Entrepreneurship Development and Management**	**03**

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	**Practical**	**Tutorial**	**Theory**	**Practical**	**Tutorial**	**Total**
03	**--**	**--**	**03**	**--**	**--**	**03**

Evaluation Scheme

Theory					Term work / Practical / Oral			
Internal Assessment			End Sem Exam	Duration of End Sem Exam	TW	PR	OR	Total Marks
Test 1	Test 2	Avg						
20	**20**	**20**	**80**	**03 Hrs.**	**--**	**--**	**--**	**100**

Objectives:

- To acquaint with entrepreneurship and management of business
- Understand Indian environment for entrepreneurship
- Idea of EDP, MSME

Module	Detailed Contents	Hrs
I	**Overview Of Entrepreneurship:** Definitions, Roles and Functions/Values of Entrepreneurship, History of Entrepreneurship Development, Role of Entrepreneurship in the National Economy, Functions of an Entrepreneur, Entrepreneurship and Forms of Business Ownership Role of Money and Capital Markets in Entrepreneurial Development: Contribution of Government Agencies in Sourcing information for Entrepreneurship	**04**
II	**Business Plans And Importance Of Capital To Entrepreneurship:** Preliminary and Marketing Plans, Management and Personnel, Start-up Costs and Financing as well as Projected Financial Statements, Legal Section, Insurance, Suppliers and Risks, Assumptions and Conclusion, Capital and its Importance to the Entrepreneur **Entrepreneurship And Business Development:** Starting a New Business, Buying an Existing Business, New Product Development, Business Growth and the Entrepreneur Law and its Relevance to Business Operations	**09**
III	Women's Entrepreneurship Development, Social entrepreneurship-role and need, EDP cell, role of sustainability and sustainable development for SMEs, case studies, exercises.	**05**
IV	**Indian Environment for Entrepreneurship:** key regulations and legal aspects , MSMED Act 2006 and its implications, schemes and policies of the Ministry of MSME, role and responsibilities of various government organisations, departments, banks etc., Role of State governments in terms of infrastructure developments and support etc., Public private partnerships,	**08**

	National Skill development Mission, Credit Guarantee Fund, PMEGP, discussions, group exercises etc	
V	**Effective Management of Business:** Issues and problems faced by micro and small enterprises and effective management of M and S enterprises (risk management, credit availability, technology innovation, supply chain management, linkage with large industries), exercises, e-Marketing	**08**
VI	**Achieving Success In The Small Business:** Stages of the small business life cycle, four types of firm-level growth strategies, Options – harvesting or closing small business Critical Success factors of small business	**05**

Outcomes:

Students will be able to…

- Explain the concept of business plan and ownerships
- Interpret key regulations and legal aspects of entrepreneurship in India
- Describe government policies for entrepreneurs

Internal:

Assessment consists of two class tests of 20 marks each. The first class test is to be conducted when approximately 40% syllabus is completed and second class test when additional 40% syllabus is completed. The average marks of both the test will be considered for final Internal Assessment. Duration of each test shall be of one hour.

End Semester Theory Examination:

In question paper, weightage of each module will be approximately proportional to number of respective lecture hours as mentioned in the syllabus.

1. Question paper will comprise of total six questioncarrying20 marks
2. Question no. 1 is compulsory. Attempt any 3 from remaining 5 question
3. Remaining question (Q.2 to Q.6) will be selected from all the modules.
4. Questions may be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) may be from any module other than module 3)

References:

1. Poornima Charantimath, Entrepreneurship development- Small Business Enterprise, Pearson
2. Education Robert D Hisrich, Michael P Peters, Dean A Shapherd, Entrepreneurship, latest edition, The McGrawHill Company
3. Dr TN Chhabra, Entrepreneurship Development, Sun India Publications, New Delhi
4. Dr CN Prasad, Small and Medium Enterprises in Global Perspective, New century Publications, New Delhi
5. Vasant Desai, Entrepreneurial development and management, Himalaya Publishing House
6. MaddhurimaLall, ShikahSahai, Entrepreneurship, Excel Books
7. Rashmi Bansal, STAY hungry STAY foolish, CIIE, IIM Ahmedabad
8. Law and Practice relating to Micro, Small and Medium enterprises, Taxmann Publication Ltd.
9. Kurakto, Entrepreneurship- Principles and Practices, Thomson Publication
10. Laghu Udyog Samachar
11. www.msme.gov.in
12. www.dcmesme.gov.in
13. www.msmetraining.gov.in

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Professional Body Activities CSI

CSI Activity Summary

2021-22

S.no.-	Activity	Resource Person with Designation and company name	Date-Month-year	No. of Students
1	Augmenting Non-Functional Requirements of Projects (Webinar)	Mr. Prasad Padalkar (Assistant Professor of DBIT , Lead Auditor ISO 27001:2013)	7th April 2022	104
2	VCET National Level Project Showcase (VNPS) 2022	**Internal judges -** Ms. Madhavi Waghmare (Asst. Professor - IT, VCET), Ms. Anagha Patil (Asst. Professor - IT, VCET), Mr. Chandan Kolvankar (Asst. Prof - IT, VCET), Ms. Tina D'abreao (Asst. Prof - CSE, VCET), Mr. Vikrant Agaskar (Asst. Prof - COMPS, VCET), Mr. Anil Hingmire (Asst. Prof - COMPS, VCET) **External judges -** Arun Gupta (Senior Software Engineer at Enkash), Sameer Pathan (Senior software engineer at Turtlemint), Yadnesh Zagde (CEO and Senior Research & development Engineer at TECH CRYPTORS),	13th April 2022	247

		Dr. Vinayak Shinde (Associate Professor in Shri LR Tiwari College of Engineering), Mrs. Payal Doshi (CEO and Founder in Prime Softech Pvt.Ltd.), Pranav Dave (Managing Director in Innovative Creators)		

Ms. Swati Varma
(Branch Counsellor)
(CSI-VCET)

Mr. Sunil Katkar
(BranchCounsellor)
(CSI-VCET)

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

Academic Year 2022-2023

Professional Bodies Activities_IETE

SR.NO	NAME OF PROFESSIONAL SOCITIES / CHAPTERS	EVENT TITLE	NO. OF PARTICIPANTS/ ATTENDEES/Teams	ORGANIZED PERIOD	NO. OF DAYS	Speaker / Judges	Level (Institute/State/National/International)	OUTCOMI
1.	IETE-SF	30 Hours workshop on STM32	68	5th August 2022	6	Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics)	Institute	Students will be demonstrate projec STM32

2.	IEEE-SB	Poster Making	40	12th August 2022	1	Dr. Ashish Vanmali	Institute	Students will be able to present their technical knowledge and enhance their communication skills.
3.	IEEE-SB	Seminar on 'Benefits of IEEE Membership'	74	25th August 2022	1	Mr. Dattatray Sawant	Institute	Students will be aware about the benefits of taking IEEE membership and all opportunities the student can grab their hands on.
4.	IEEE-SB	Stem Project	120	30th August 2022 & 17th September 2022	2	Dr. Sunayana Jadhav and Ms. Ekta Naik	Institute	Students will be able to explore fundamental knowledge of engineering.

5.	IEEE-SB	Engineers Day	35	15th September 2022	1	Dr. Sunayana Jadhav	Institute	Students will be able to present their technical skills.
6.	IEEE-SB & IETE-SF	Anveshan'22 SK	108	23rd September 2022	1	-	State	Students will be able to explore application of industrial technology in various domains.
7.	IETE-SF	VLSI: Emerging Application	54	8th October, 2022	1	Dr. Suyog Patil (Senior DFT Engineer, Qualcomm India Pvt. Ltd)	Institute	Student will be able to enhance their knowledge about VLSI and it's scope in industries.

8	IETE-SF	Industrial Visit: Logiq Embedded Systems	60	14th October 2022	1	-	Institute	Student will be acquainted with industrial working environment.
9	IETE-SF	Introduction to Latex	50	21st October 2022	1	Ms. Shraddha Gosavi (Assistant professor, VCET)	Institute	Students will be able to present and communicate technical skills using Latex software
10	IEEE-SB	Exposer to DSP	72	21st October 2022	1	Dr. Ashish Vanmali	Institute	Students will be able to apply the fundamentals of DSP.
11	IEEE-SB	Training Program on krypton CPLD board	15	13th December to 23rd December 2022	11	Dr. Sunayana Jadhav & Ms. Sandhya Supalkar	Institute	Students will be able to apply VLSI concept in developing applications using CPLD board.

12.	IETE-SF	SDP: Hands on Arduino and MATLAB	74	2nd January to 7th January 2023		Ms. Shaista Khanam (IETE-SF Incharge and Associate Professor, VCET) Ms. Trupti Shah (Associate Professor, VCET) Ms.Ekta Naik (Assistant Professor, VCET)	Institute	Students will be able apply knowledge in Arduino and MATLAB projects.
13.	IETE-SF	Emerging Trends in VLSI	70	2nd January 2023	1	Mr. Nandkumar Nair (Physical Design Engineer, Alpha Wave IP, Canada)	Institute	Students will be able to implement embedded system based application of VLSI.
14.	IETE-SF	Industrial Visit: BSNL Earth Station	40	18th January 2023	1	-	Institute	Students will be acquainted with industrial working environment.

15.	IETE-SF	Quizzards of Techno'23	90	14th February 2023	1	-	Institute	Student will be able to boost their knowledge beyond academics.
16.	IEEE-SB	Think Aloud	26	22nd February 2023	1	Mr. Chandan Kolvankar, Ms. Shobhana Shrisath and Dr. Madhavi Waghmare	Institute	Student will be able to develop their group discussion skills.
17.	IEEE-SB	Seminar on Machine Learning & it's Industrial Applications	45	27th February 2023	1	Mr. Arun Nambiar	Institute	Students will be able to explore the significance of the ML in real time.

18.	IETE-SF	Workshop on RPI	50	9th March to 11th March 2023	3	Mr. Manoj S. Kavedia (Professor at TSEC, Bandra)	Institute	Students will be able to explore RPI technology concept and it's application in industry.
19.	IEEE-SB	Industrial Visit: All India Radio	30	10th March 2023	1	Dr. Amrita Ruperee, Ms. Trupti Shah	Institute	Students will be acquainted with industrial working environment.

20.	IEEE-SB & IETE-SF	Oscillations' 23 – Technical Paper Presentation SK	145	17th March 2023	1	Dr. Kalavati Patil (Associate Professor, TCET,Kandivali) Dr.Mahesh Pawaskar, Dr.Ashish Choudhary (Associate Professor, Mech) Dr. Madhvi Waghmare (Associate Professor, IT) Ms. Shaista Khanam (Associate Professor, EXTC) Ms. Sandhya Supalkar (Associate Professor, EXTC) Ms. Ashwini Katkar (Associate Professor, EXTC) Ms. Trupti Shah (Associate Professor, EXTC)	State	Students will be able to write and present their ideas and projects in the form of technical papers.
21.	IEEE-SB	Industrial Visit: Accurate Helical Springs Pvt. Ltd	20	23rd March 2023	1	Dr. Sunayana Jadhav and Ms. Trupti Shah	Institute	Students will be acquainted with industrial working environment.

22.	IEEE-SB	Industrial Visit: TIFR	26	25th March 2023	1	Dr. Sunayana Jadhav and Ms. Ashwini Katkar & Ms. Sandhya Supalkar	Institute	Students will be acquainted with industrial working environment.
23.	IEEE-SB & IETE-SF	VNPS'23 VCET's National Level Product Showcase	78	6th April 2023	1	Dr. Ravindra Chaudhari (Associate Professor,EXTC) Dr. Deepak Gawali (Associate Professor, Instumentation) Mr. Kailashnath Mishra Mr. Arun Mondkar (R&D Head at ACZET Pvt. Ltd.) Mr.Yogendraprasad Tripathi (Owner, Tropical Electronic Equipment Co.) Dr. Ashish Vanmali (Associate Professor, IT) Ms. Ashwini Katkar (Associate Professor, EXTC) Ms. Ekta Naik (Associate Professor, EXTC)	State	Students will be able to present their innovations and ideas in the form of projects.

						Ms. Kanchan sarmalkar (Associate Professor, IT) Ms. Neha Gharat (Associate Professor, EXTC) Mr. Prafulla Patil (Associate Professor, IT) Mr. Sanjay lohar (Associate Professor, Mech) Ms. Trupti Shah (Associate Professor, EXTC) Ms. Shaista Khanam (Associate Professor, EXTC) Ms. Shraddha Gosavi (Associate Professor, EXTC) Ms. Sandhya Supalkar (Associate Professor, EXTC)		

Ms. Shaista Khanam
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VCET

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IEEE-SB, Branch Counsellor
VCET

Dr. Amrita Ruperee
HOD-EXTC
VCET

Dr. Harish V.Vankudre
Principal
VCET

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VIDYAVARDHINI'S COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER ENGINEERING
TURNITIN UTILIZATION RECORD
2021-22

Sr NO	Date	Time(24 hour clock)	Type(Journal paper/Conference paper/Book/Book chapter/Article etc)	Title	First author Name	User Name	Assignment Name	Overall Plagiarism ,%
1	27/10/2021	10:45	Book Chapter	Analysis of Recurrent Neural Network and Convolutio	Tatwadarshi P. N.	hod_comps@vcet.edu.in	COMP_A	12%
2	27/10/2021	10:50	Book Chapter	Evaluating the Effectiveness of Convolution Neural Ne	Tatwadarshi P. N.	hod_comps@vcet.edu.in	COMP_A	12%
3	11/11/2021	10:20	Journal Paper / Confere	Impact of Machine Learning in Natural Language Proc	Tatwadarshi P. N.	hod_comps@vcet.edu.in	IT_A1	11%
1	15/11/2021	15:30	SEM VII Report	TENSORFLOW-BASED AUTOMATIC PERSONALITY	Anil Hingmire	hod_comps@vcet.edu.in	Research	79%
2	15/11/2021	15:50	SEM VII Report	Augmented Reality for the learning of 3D geometry	Anil Hingmire	hod_comps@vcet.edu.in	IT_A2	52%
3	15/11/2021	16:00	SEM VII Report	Residential Society Security System Using Face Recognitic	Anil Hingmire	hod_comps@vcet.edu.in	IT_A3	42%
4	15/11/2021	16:15	SEM VII Report	Music Recommendation Based On Facial Expression Using	Anil Hingmire	hod_comps@vcet.edu.in	IT_A5	57%
5	15/11/2021	16:30	SEM VII Report	PREDICTION OF FLIGHT PRICES USING MACHINE L	Anil Hingmire	hod_comps@vcet.edu.in	IT_A4	42%
6	16/11/2021	16:20	SEM VII Report	Image Resolution Enhancer Using Deep Learning	Anil Hingmire	hod_comps@vcet.edu.in	MECH_A	44%
7	16/11/2021	16:30	SEM VII Report	Crime Scene : Crime Prediction and Analysis	Anil Hingmire	hod_comps@vcet.edu.in	MECH_A	58%
8	16/11/2021	16:40	SEM VII Report	Detecting and Counting of Vehicles Using Image Processin	Anil Hingmire	hod_comps@vcet.edu.in	MECH_A	63%
9	16/11/2021	16:43	SEM VII Report	Predicting the vulnerability of Covid using ML	Anil Hingmire	hod_comps@vcet.edu.in	MECH_A	32%
10	16/11/2021	17:00	SEM VII Report	Image Resolution Enhancer Using Deep Learning	Anil Hingmire	hod_comps@vcet.edu.in	MECH_A	44%
11	16/11/2021	17:15	SEM VII Report	Online Friend of Street Kids for Preventing Child Traffickir	Anil Hingmire	hod_comps@vcet.edu.in	EXTC_A1	39%
12	17/11/2021	13:45	SEM VII Report	Deep Video Surveillance – Anomaly Event Detection	Anil Hingmire	hod_comps@vcet.edu.in	EXTC_A2	52%
16	17/11/2021	13:52	SEM VII Report	Crop disease prediction system	Anil Hingmire	hod_comps@vcet.edu.in	INST_A1	23%
14	17/11/2021	16:01	SEM VII Report	Botnet Detection Using Machine Learning	Anil Hingmire	hod_comps@vcet.edu.in	INST_A2	58%
15	17/11/2021	16:08	SEM VII Report	Identification and Classification of Anxiety in Human Usin	Anil Hingmire	hod_comps@vcet.edu.in	CIVIL_A1	41%

16	17/11/2021	16:15	SEM VII Report	Prediction of Delayed Trauma Following an Ischemic Strok	Anil Hingmire	hod_comps@vcet.edu.in	CIVIL_A2	42%
17	17/11/2021	16:25	SEM VII Report	Supply chain management of Agro product using Blockcha	Anil Hingmire	hod_comps@vcet.edu.in	EXTC_A3	67%
18	17/11/2021	16:38	SEM VII Report	Medicinal Pill Identification Using Machine Learning Tech	Anil Hingmire	hod_comps@vcet.edu.in	EXTC_A4	16%
19	17/11/2021	16:50	SEM VII Report	Multi-angle 2D object's images into a 3D model	Anil Hingmire	hod_comps@vcet.edu.in	EXTC_A5	46%
20	25/11/2022	17:23	SEM VII Report	Realtime Social distance detection and human count using	Anil Hingmire	hod_comps@vcet.edu.in	A1	56%
21	25/11/2023	17:29	SEM VII Report	Prediction of Delayed Trauma Following an Ischemic Strok	Anil Hingmire	hod_comps@vcet.edu.in	A2	44%
22	25/11/2024	17:35	SEM VII Report	Early Detection of Alzheimer's using MRI scan	Anil Hingmire	hod_comps@vcet.edu.in	A3	45%
23	25/11/2025	17:42	SEM VII Report	REMOTE PATIENT MONITORING AND DATA ANALY	Anil Hingmire	hod_comps@vcet.edu.in	A4	23%
24	25/11/2026	17:47	SEM VII Report	Online Exam Proctoring System	Anil Hingmire	hod_comps@vcet.edu.in	A5	29%
25	25/11/2027	17:50	SEM VII Report	Bhavtarang : Speech Emotion Recognition using M	Anil Hingmire	hod_comps@vcet.edu.in	A6	20%
26	25/11/2028	17:54	SEM VII Report	Real Time Machine Translation System Between Indian Lan	Anil Hingmire	hod_comps@vcet.edu.in	A7	25%
27	25/11/2029		SEM VII Report	Youtube Video Popularity Prediction	Anil Hingmire	hod_comps@vcet.edu.in	A8	34%
1	29/11/2021	12:08	SEM V Report	Optimisation of Sales for a Mall with Data analysis	Smita Jawale	hod_comps@vcet.edu.in	A1	67%
2	29/11/2021	12:25	SEM V Report	Online Voting System Using Face Recognition	Smita Jawale	hod_comps@vcet.edu.in	A2	55%
3	29/11/2021	12:38	SEM V Report	Agri-chain (Plant Health Monitoring, Disease Detecti	Smita Jawale	hod_comps@vcet.edu.in	A3	67%
4	29/11/2021	12:48	SEM V Report	Communication for the Unspoken	Smita Jawale	hod_comps@vcet.edu.in	A4	30%
5	29/11/2021	12:59	SEM V Report	Stock Automation System	Smita Jawale	hod_comps@vcet.edu.in	A5	19%
6	30/11/2021		SEM V Report	Cyberbullying Detection	Smita Jawale	hod_comps@vcet.edu.in	A6	66%
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14	30/11/2021		SEM V Report	Your Farm	Smita Jawale	hod_comps@vcet.edu.in	A14	40%
15	30/11/2021		SEM V Report	Currency Detector for Visually Impaired	Smita Jawale	hod_comps@vcet.edu.in	A15	59%
16	30/11/2021		SEM V Report	OCR Based on Deep Learning	Smita Jawale	hod_comps@vcet.edu.in	A16	29%
17	30/11/2021		SEM V Report	Credit Card Fraud Detection	Smita Jawale	hod_comps@vcet.edu.in	A17	85%
18	30/11/2021		SEM V Report	Heart Disease prediction system	Smita Jawale	hod_comps@vcet.edu.in	A18	73%
19	30/11/2021		SEM V Report	SIGN LANGUAGE RECOGNITION	Smita Jawale	hod_comps@vcet.edu.in	A19	65%
20	30/11/2021		SEM V Report	TRAT (Text Recognization and Translation)	Smita Jawale	hod_comps@vcet.edu.in	A20	35%
21	30/11/2021		SEM V Report	Voice Assistant For News App	Smita Jawale	hod_comps@vcet.edu.in	A21	30%
22	09/12/2021		Sem III Report	Content Management system	Smita Jawale	hod_comps@vcet.edu.in	A24	22%
23	09/13/2021		Sem III Report	Caristrocrat – Car Rentals	Smita Jawale	hod_comps@vcet.edu.in	A25	28%
24	22/12/2021	10:40	Sem III Report	Railway Ticket System	Dr. Megha Trivedi	hod_comps@vcet.edu.in	A1	25%
25	22/12/2021	10:49	Sem III Report	Automated Emergency Location System	Dr. Megha Trivedi	hod_comps@vcet.edu.in	A2	19%
26	4/5/2022	4:57	Sem IV Report	Flappy bird	Smita Patil	hod_comp@vcet.edu.in	A6	9%
27	5/5/2022	5:36	Sem VI Report	Small Scale industry management	Smita Patil	hod_comp@vcet.edu.in	A6	55%
28	6/5/2022	11:49	Sem VI Report	Small Scale industry management	Smita Patil	hod_comp@vcet.edu.in	A16	47%
29	7/5/2022	2:05	Sem VI Report	Small scale industry management	Smita Patil	hod_comp@vcet.edu.in	A14	20%
30	17/10/2022	11.54	Sem VII report	Software Piracy Protection System	Swati Varma	hod_comp@vcet.edu.in	A2	68%
31	17/10/2022	11.59	Sem VII paper	Software Piracy Protection System	Swati Varma	hod_comp@vcet.edu.in	A2	63%
32	22/10/2022	12.55	Sem VII report	Software Piracy Protection System	Swati Varma	hod_comp@vcet.edu.in	A2	23%

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COMP Engg.

Vankudre Harish Vasant

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