

Vidyavardhini's college of Engineering & Technology Vasai(w) Department of Computer Engineering Course Outcomes for R-2019 Syllabus

Program Outcomes

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

PSO1: Analyze problems and design applications of database, networking, security, web technology, cloud computing, machine learning using mathematical skills, and computational tools.

PSO2: Develop computer-based systems to provide solutions for organizational, societal problems by working in multidisciplinary teams and pursue a career in the IT industry.

Course Outcomes	
	At the end of the semester student will able to
FEC101	Applied Mathematics I
FEC101.1	Apply the concepts of Complex Numbers, to solve Engineering problems.
FEC101.2	Apply hyperbolic functions and logarithm of complex number to solve Engineering problems.
FEC101.3	Apply Compute the partial differentiation of functions of two & three variables.
FEC101.4	Apply find the nth order derivative of a function using successive differentiation & Compute maxima-minima of a function.
FEC101.5	Apply the properties of matrices to find rank of a matrix & to solve system of linear simultaneous equations.
FEC101.6	Apply the concept of Numerical Methods to solve system of linear algebraic equations, transcendental equation.
FEC102	Applied Physics I
FEC102.1	Know the fundamentals of quantum mechanics and its applications.
FEC102.2	Draw miller indices using concept of crystallography and Identify crystal structure using X-ray diffraction techniques viz. Bragg's diffractometer
FEC102.3	Apply concepts of semiconductor physics to understand principle and working of LED, photoconductor and photovoltaic cell.
FEC102.4	Use concept of interference in thin films in measurements.
FEC102.5	Discuss properties of superconductors and super capacitor.
FEC102.6	Know the principles of engineering materials.
FEC103	Applied Chemistry I
FEC103.1	Analyze the quality of water and suggest methods of treatment.
FEC103.2	Differentiate thermosoftening & thermosetting plastic & select appropriate fabrication method.
FEC103.3	Understand the concept of microscopic chemistry in terms of atomic and molecular orbital theory & calculate bond order of molecule.
FEC103.4	Understand the concept of aromaticity & calculate aromaticity using Huckel's Rule.
FEC103.5	Understand Gibb's phase rule & calculate number of phases, component & degree of freedom of one & two component system.
FEC103.6	Differentiate ionic, dipolar & Vander waal's intermolecular forces of attraction.
FEC104	Engineering Mechanics
FEC104.1	Illustrate the concept of force, moment and apply the same along with the concept of equilibrium in two and three dimensional systems with the help of FBD.
FEC104.2	Demonstrate the understanding of Centroid and its significance and locate the same
FEC104.3	Estimate required force to overcome friction and correlate real life application to specific type of friction.
FEC104.4	Establish relation between velocity and acceleration of a particle and analyse the motion by plotting the relation.
FEC104.5	Illustrate different types of motions and establish Kinematic relations for a rigid body.
FEC104.6	Analyse body in motion using force and acceleration, work-energy, impulse- momentum principles

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	FEL105 FEL105.1 FEL105.2 FEL105.3 FEL105.4 FEC201.1 FEC201.2 FEC201.2 FEC201.4 FEC201.4 FEC201.5 FEC202.6 FEC202.1 FEC202.1 FEC202.3 FEC202.4 FEC203.2 FEC203.1 FEC203.2 FEC203.4 FEC203.4 FEC203.4 FEC203.4 FEC203.5 FEC203.6 FEC204.1 FEC204.2 FEC204.2	Baic Workshop Practice I Model different proottypes in the trade of fitting such as Cross cut lap joint, Toketel lap joint, Toketel lap joint, Male Female Joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female Joint. Perform various basic House Wiring techniques while taking care of electrical safety. Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc. Applied Mathematics II Solve differential equations of first order & first degree. Solve Inferential equations of first order & first degree. Solve Inferential equations and D.U.I.S. to solve improper integrals. Apply Beta, Gamma functions and D.U.I.S. to solve improper integrals. Apply concepts of triple integral of different coordinate systems to find volume of a solids. Solve Differential equations & Definite integrals using Numerical Methods. Publed Physics II Calculate wavelength of light using diffraction grating and resolving power of grating. Apply the principles of Laser and fibre optics in modern communication technology. Relate the fundamentals of relativity. Select Tools for characterisation of nanomaterials and method to synthesize nanomaterial Calculate wavelength of light using diffraction grating and resolving power of grating. Apply the funciples of their divity. Select Tools for characterisation of nanomaterials and method to synthesize nanomaterial Calsafy sensors based on their sensing technique. Publed Chemistry II Hentify types of corrosion & discuss corrosion control measures. Analyze the quality of fuel & calculate the oxygen required for combusion of fuel. Discuss the range of EMS suce for molecular transitions in spectroscopic techniques. Calculate the oxygen required for combusion of fuel. Discuss the phenomenon of fluorescence & Phosphorescence. Understand the concept of electrode panies in spectroscopic techniques. Sandyze the quality of fuel & calculate the oxygen required for combustion of fuel. Discuss the range of EMS suce for m
FEC204.5 [Draw Orthographic and Isometric Projection using AutoCad	FEL105 FEL105.1 FEL105.2 FEL105.3 FEL105.4 FEC201. FEC201.2 FEC201.2 FEC201.3 FEC201.4 FEC201.4 FEC201.5 FEC202.1 FEC202.1 FEC202.1 FEC202.2 FEC202.3 FEC202.4 FEC203.2 FEC203.1 FEC203.4 FEC203.4 FEC203.4 FEC203.4 FEC203.5 FEC203.4 FEC203.4 FEC203.5 FEC203.6 FEC204 FEC204.1 FEC204.3 FEC204.4	Baic Workshop Practice I Baic Workshop Practice I Back Workshop Practice I Back Back Back Back Back Back Back Back

FEC205	C programming
FEC205.1	Identify the terminologies in operating system used for computer programming and illustrate the algorithms to support Structure
FEC205.2	Use Variables derived data types and control structures to write C program
FEC205.3	Implement solutions to the problem using strings and functions
FEC205.4	Implement of a quadratic to the protein a sing stands of the quadratic section in the protein and standard section
FEC205.5	Decompose a protein mito intercoluino and synthesize a complete program.
FEC205.5	Stucture-Orion and rises for soring complex Computational problem.
FEC205.6	Use Pointers for solving complex Computational problem.
FEC206	Professional Communication and Ethics- I
FEC206.1	Communicate effectively using verbal/non-verbal cues at social and workplace situation.
FEC206.2	Select/Use appropriate grammar and vocabulary in oral, written communication
FEC206.3	Summarize/Comprehend passages, run plagiarism check softwares and generate plagiarism report for paraphrased passages.
FEC206.4	Write/ Draft academic, business and technical letter/email.
FEC206.5	Frame Definition, write user instruction, description of technical object, description of a Technical / Scientific Process
FEC206.6	Demonstrate principles of ethics in professional environment
FFI 201	Engineering Physics, II I ab
FEL201	Colsulate menulements of eitern colour noise differentian ereting
FEL201.1	Calculate wavelength of given cloud using dimaction graung
FEL201.2	Calculate number of innes on the grating using Laser source
FEL201.3	Calculate numerical aperture of an optical fibre
FEL201.4	Determine I-V characteristics of photodiode
FEL201.5	Calculate volume of room using ultrasonic distance meter.
FEL202	Engineering Chemistry-II
FEL202.1	Analyse fuel for moisture content.
FEL202.2	Estimate Na,k & Ca in the given sample using flame photometer.
FEL202.3	Estimate flash point of diesel oil using Abel's apparatus.
FEL202.4	Estimate saponification value of vegetable oil.
FEL 202 5	Estimate acid value of vegetable oil.
1 EE202.5	
FFL 203	Engineering Crephics Leb
FEL 203 1	Andusta basis minimizes of minimizing in Designing of Lines on d Diago and Courses
FEL203.1	Apply the basic principles of projections in Projection of Lines and Planes and Children and Chi
FEL203.2	Apply the basic principles of projections in Projection of Solida & Section of Solida
FEL203.3	Apply basic AutoCAD skills to draw different views of a 3D object
FEL203.4	Apply basic AutoCAD skills to draw the isometric view from the given two views
FEL204	C programming Lab
FEL204 FEL204.1	C programming Lab Translate given algorithms to a program
FEL204 FEL204.1 FEL204.2	C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program
FEL204 FEL204.1 FEL204.2 FEL204.3	C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs
FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4	C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program
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FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.6 FEL204.6 FEL205.5 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5	C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation.
FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.6 FEL205.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6	C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully
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FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201	C programming Lab C programmin
FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201 FEL201.1	C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully Basic Workshop Practice II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint.
FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201.1 FEL201.2	C programming Lab C program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully Basic Workshop Practice II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint.
FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201.1 FEL201.2 FEL201.3	C programming Lab C programming Lab C programming Lab C programming Lab C program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully Basic Workshop Practice II Model different protypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Read various basic Layout drawing; make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations.
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FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.5 FEL204.6 FEL205.1 FEL205.2 FEL205.4 FEL205.5 FEL201.6 FEL201.7 FEL201.8 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301	C programming Lab C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully Basic Workshop Practice II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Mae Female joint. Read various basic prototypes in the trade of fitting such as Square, Hexagonal and V Mae Female joint. Bismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking C Engineering Mathematics-III Anply the concept of Lanlace transform and its annicitation to solve the real integrals in engineering problems
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FEL204 FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.5 FEL205.4 FEL205.5 FEL205.6 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.3 CSC301.4 CSC301.5 CSC302.1 CSC302.1	C programming Lab Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for softwing complex computational problem Declare pointers and demonstrate call by reference concept Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise basiness letters, academic essays and technical guidelines. Dress finely and ocnduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully Model different prototypes in the carepentry trade such as Square, Hexagonal and V Made Female joint. Model various basic prototypes in the carepentry trade such as Square, Hexagonal and V Made Female joint. Model various basic prototypes in the rade of fitting such as Square, Hexagonal and V Made Female joint. Model various basic prototypes in the rade of fitting such as Square, Hexagonal and V Made Female joint. Model various basic prototypes in the rade on boots the rad in tegrals in engineering problems. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking Explore of Laplace transform of various functions and its application in engineering problems. Apply the concept of correlation and Regression to diventive rad lite gradis in engineering problems. Apply the concept of probability and expectation for getting problems. Apply the concept of probability and expectation for getting problems. Apply the concept of probability and expectation for getting problems. Apply the concept of probability and expectation for getting problems. Apply the concept of probability and expectation fo

CSC302.4	Solve problems using counting techniques.
CSC302.5	Use of groups and codes in Encoding-Decoding
CSC302.6	Use graphical terminologies to identify connected and isomorphic graphs
050502.0	
CSC303	Date Characteria
CSC303	Data Structure
CSC303.1	Identify the Linear and Non Linear Data Structures for a given problem
CSC303.2	Apply insertion, deletion operations on stacks and queue data structures.
CSC303.3	Apply insertion and deletion operations on Linked Lists
CSC303.4	Apply insertion, deletion and searching operations on AVL, B Tree, B+ Tree, Expression Tree, Huffman Encoding
CSC303.5	Examine Graph Traversal algorithms to determine shortest path and connectivity between nodes
CSC303.6	Select appropriate searching technique and hashing function for a database application
CSC204	
CSC304	Digital Logic & Computer Organization and Architecture
CSC304.1	Convert one number system to another and realize logic circuits using basic/universal gates.
CSC304.2	Apply the arithmetic algorithms to solve ALU operations.
CSC304.3	Analyze the truth table of digital components and identify the elements, their functions in processor architecture.
CSC304.4	Compare a hardwired / microprogrammed control unit.
CSC304.5	Classify narameters of cache and implement memory mapping techniques
CSC304.6	Compage concilerations of came and important methods in page 100 purges.
00000	Compare seria/paranel processing and ISA, FCI, USB buses.
CSC305	Computer Graphics
CSC305.1	Represent points in two/three-dimension graphical coordinate systems and compare raster scan & random scan displays.
CSC305.2	Apply scan conversions algorithms to draw point, line, circle, ellipse and compare flood fill, boundary fill algorithms.
CSC305.3	Apply 2-D geometric transformations on graphical objects and analyze composite transformation.
CSC305.4	Apply line and polygon clipping algorithms on 2D graphical objects.
CSC305 5	Anny 3D geometric transformations on graphical objects and construct the curves
CSC305.6	Paper 32 geometre transformations on graphical objects and constituent the till VS.
656505.0	classing visione surface detection techniques and compare conventional/raditional and computer-based animation techniques.
CEL 201	
CSL301	Data Structures Lab
CSL301.1	Implement Linear Data Structure and handle insertion, deletion, traversal operations using array.
CSL301.2	Apply stack operations to convert and evaluate expression
CSL301.3	Implement linear, circular or priority queues using arrays
CSL301.4	Implement Singly, Circular or Doubly Linked list
CSL301.5	Implement Abstract data type using Linked list
CSI 301.6	Implement Australia data type using Linkee nat
C5L501.0	Impenient Orașii Traversai recuniques, Bro and Dro.
CSI 202	
CSL302	Digital Logic & Computer Organization and Architecture Lab
CSL302.1	Verify the truth table of logic, universal gates, and realize logic circuits using hardware.
CSL302.2	Implement combinational circuits design using hardware.
CSL302.3	Implement sequential & code conversion circuits design using hardware.
CSL302.4	Write Booth's, Restoring, and Non-Restoring algorithms for arithmetic operations using C-Programming language.
CSL302.5	Implement ripple carry adder, carry look ahead adder, ALU design using virtual lab.
CSL302.6	Implement CPU, memory and Cache memory designs using a virtual lab.
CSL303	Computer Graphics I ab
CSI 303 1	Comparent points in two (here dimension explosed coordinate outcame and compare source outc
CSL505.1	Represent points in two/unee-unitension graphical coordinate systems and compare faster scan & random scan displays.
CSL303.2	Apply scan conversions algorithms to draw point, line, circle, ellipse and compare flood fill, boundary fill algorithms.
CSL303.3	Apply 2-D geometric transformations on graphical objects and analyze composite transformation.
CSL303.4	Apply line and polygon clipping algorithms on 2D graphical objects.
CSL303.5	Anny 3D geometric transformations on graphical objects and construct the curran
CSL303.5	raphy 55 gometre transformations on graphical objects and construct in curves.
CSL303.6	Liassity visible surface detection techniques and compare conventional/traditional and computer-based animation techniques.
CSL304	Skill based Lab Course: Object Oriented Programming with Java
CSL304.1	Apply programming constructs of decision making and looping for solving arithmetic problems.
CSL304.2	Apply the concept of packages, classes and objects for solving given problem.
CSL304.3	Use strings, arrays and vectors for solving given problem.
CSL304.4	Implement the concept of inheritance and interfaces.
CSL304 5	Implement the concept of averation bandling and multithreading
CSI 304.6	Davalor Cill based a proliticitori
CSL304.0	Develop GOT based application.
CEM201	
CSWISUI	Mini Project A
CSM301.1	Identify societal, industrial needs and formulate problem statements followed by requirement analysis.
CSM301.2	Investigate the problem through appropriate literature Surveys.
CSM301.3	Design and develop solution using modern tools for the given problem.
CSM301.4	Work as an indiviual, contribute as a team member with effective management skills and ethical values.
CSM301.5	Develop effective communication/ technical writing skills through project presentation. Group discussion and report writing activities.
CSM301.6	Demonstrate canabilities of self-learning, leading to lifelong learning
0.511501.0	Demonstrate capacitities of sen-italiting, leading to including leatining.
and the	
CSC401	Engineering Mathematics-IV
CSC401.1	Apply the concept of eigenvalues and eigenvectors in engineering problems.
CSC401.2	Apply the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.

CSC401.3	Apply the concept of 7-transformation and inverse in engineering problems
CSC401.4	Apply the concept of a probability distribution and some interime probams.
CSC401.5	Apply the concept of probability distribution and sampling theory to engineering problems
CSC401.5	Apply the concept of Linear Programming Problems to optimization
CSC401.6	Solve Non-Linear Programming Problems for Optimization of engineering problems.
CSC402	Analysis of Algorithms
CSC402.1	Calculate the Space and Time Complexity of algorithms
CSC402.2	Apply Divide and Conquer approach to solve problems and analyze its complexity
CSC402.3	Apply Greedy Methods to solve problems on Single source shortest path and Minimum spanning tree, and analyze its complexity
CSC402.4	Apply Dynamic Programming Approaches to solve problems on Single source and All pair shortest path
CSC402.5	Annly backtracking and branch & bound strategies to solve problems on decision and optimization
CSC402.6	Apply detendening, and exchanges for finding the occurrences of patterns in a text
	Apprisoning materials techniques for infaing the occurrences of patients in a text
CSC403	Database Monocoment Sectors
CSC403	Database Wanagement System
CSC403.1	Identity characteristics of database management system.
CSC403.2	Design EK/EER diagram for given case study.
CSC403.3	Construct relational model and apply relational algebra queries for a given problem.
CSC403.4	Apply SQL queries for a given schema.
CSC403.5	Apply normalization techniques to relational database design.
CSC403.6	Use transaction, concurrency and recovery techniques to analyze conflicts in multiple transactions.
CSC404	Operating System
CSC404.1	Identify the objectives, functions and structure of the operating system.
CSC404.2	Analyze performance of Process Scheduling algorithms based on CPU utilization and throughput.
CSC404.3	Use process synchronization techniques for deadlock detection, prevention, recovery.
CSC404.4	Analyze performance of memory allocation based on space complexity and page replacement policies based on time complexity.
CSC404.5	Use concepts of file management to access, share and manipulate file systems.
CSC404.6	Evaluate performance of disk scheduling algorithms using concepts of UO management
	a rander performance of disk teneduling algorithms and concepts of 2.0 managements
CSC405	Migranragasar
CSC405 1	Interior the components and their functions in Intel 2006 microgrammers
CSC405.2	Identify the components and then functions in the 8080 interoprocessors.
CSC405.2	Write assembly, mixed language programs using instruction set of 8086 and analyze updated values of control mag after execution of assembly language
CSC405.5	Design 8086 microprocessor-based system for the given specifications using memory and peripheral chips.
CSC405.4	Identify the components and their functions in Intel 80386DX processor.
CSC405.5	Identify the components and their functions in the Pentium processors.
CSC405.6	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.
CSC405.6	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.
CSC405.6 CSL401	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab
CSC405.6 CSL401 CSL401.1	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms
CSC405.6 CSL401 CSL401.1 CSL401.2	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity
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CSC405.6 CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem
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CSC405.6 CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques Database Management system Lab
CSC405.6 CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool.
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CSC405.6 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403 CSL403 CSL403	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.
CSC405.6 CSL401.1 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.5 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.5 CSL402.6 CSL403 CSL403.1	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool. Construct database tables with different DDL and DML statements and apply integrity constraints Apply SQL queries, triggers for given Schema Apply procedure and functions for given schema Use transaction and concurrency control techniques to analyze conflicts in multiple transactions. Construct database tables and JDBC/ ODBC connectivity for given application Use the Linux commands to write Shell scripting program using system calls.
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CSC405.6 CSL401.1 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.5 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL403.1 CSL403.2 CSL403.2 CSL403.3 CSL403.4 CSL403.5 CSL403.6 CSL404.1 CSL404.2	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Greedy Algorithms for Single source shortest path, All pairs Shortest path, O'I Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool. Construct database tables with different DDL and DML statements and apply integrity constraints Apply SQL queries artiggers for given Schema Use transaction and concurrency control techniques to analyze conflicts in multiple transactions. Construct database tables and JDBC/ ODBC connectivity for given application Operating System Lab Use the Linux commands to write Shell scripting program using system calls. Analyze the performance of process scheduling algorithms based on CPU utilization and throughput. Write a program for deallock detection and avoidance algorithm using C programming language. Analyze the performance of item and auditance data on space complexity. Analyze the performance of item and auditance algorithm using C programming language. Mitroprocessor Lab Write assembly language programs for 16-bit addition, subtraction, multiple frata.
CSC405.6 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.5 CSL402.6 CSL403.1 CSL403.1 CSL403.2 CSL403.3 CSL403.4 CSL403.4 CSL403.6 CSL404.1 CSL404.1 CSL404.2 CSL404.3	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Orivide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool. Construct database tables with different DDL and DML statements and apply integrity constraints Apply SQL queries striggers for given Schema Use transaction and concurrency control techniques to analyze conflicts in multiple transactions. Construct database tables and JDBC/ ODBC connectivity for given application Operating System Lab Use the Linux commands to write Shell scripting program using system calls. Analyze the performance of process scheduling algorithms based on CPU utilization and throughput. Write a program for detection and avoidance algorithm based on time complexity. Analyze the performance of virtual memory management techniques based on space complexity. Analyze the performance of virtual memory management techniques using C programming language. Analyze the performance of virtual memory management techniques using C programming language. Analyze the performance of virtual memory management techniques using C programming language. Analyze the performance of rorters scheduling algorithms based on time complexity. Write a program for file management techniques using C programming language. Microprocessor Lab Write assembly language prog
CSC405.6 CSL401.1 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.5 CSL401.6 CSL402 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL403.1 CSL403.1 CSL403.2 CSL403.3 CSL403.4 CSL403.5 CSL403.4 CSL404.3 CSL404.1 CSL404.3 CSL404.3 CSL404.3 CSL404.4	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem, Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool. Construct database tables with different DDL and DML statements and apply integrity constraints Apply SQL queries ariggers for given Schema Apply procedure and functions for given schema Use transaction and concurrency control techniques to analyze conflicts in multiple transactions. Construct database tables and JDBC/ ODBC connectivity for given application Detaing System Lab Use the Linux commands to write Shell scripting program using C programming language. Analyze the performance of process scheduling algorithms based on CPU utilization and throughput. Write a sembly language programs to perform basic and origin using C programming language. Mitroprocessor Lab Write assembly language programs to perform basic operation, sub-tracking. Write assembly language programs to perform basic operation, sub-tracking. Write assembly language programs to perform basic operation, sub-tracking. Write assembly language programs to perform basic operform.
CSC405.6 CSL401. CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.5 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403.1 CSL403.2 CSL403.2 CSL403.3 CSL403.4 CSL403.5 CSL403.6 CSL404.1 CSL404.2 CSL404.3 CSL404.4 CSL404.4 CSL404.4 CSL404.5	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Divide and Conque approaches to solve problems and analyze its complexity Implement Divide and Conque approaches to solve problems and analyze its complexity Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Divide and Conquer approaches to solve problems for Single source shortest path, All pairs Shortest path, 0/I Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool. Construct database tables with different DDL and DML statements and apply integrity constraints Apply Opcocdure and functions for given schema Use transaction and concurrency control techniques to analyze conflicts in multiple transactions. Construct database tables and JDBC/ ODBC connectivity for given application Use the Linux commands to write Shell scripting program using system calls. Analyze the performance of process scheduling algorithms based on CPU utilization and throughput. Write a program for deallock detection and avoidance algorithm using C programming language. Microprocessor Lab Write assembly language programs to perform basic arithmetic operations on 8-bit/16-bit data. Write assembly language programs to perform basic arithmetic operations on 8-bit/16-bit data. Write assembly language programs based on string instructions. Write assembly language programs to sereed on string instructions. Write
CSC405.6 CSL401. CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.5 CSL402.1 CSL402.1 CSL402.2 CSL402.2 CSL402.3 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL403.1 CSL403.1 CSL403.2 CSL403.3 CSL403.4 CSL403.5 CSL403.4 CSL404.5 CSL404.4 CSL404.5 CSL404.	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Divide and Conque rapproaches to solve problems and analyze its complexity Implement Divide and Conquer approaches to solve problems for Single source shortest path, All pairs Shortest path, 0/I Knapsack Problem, Travelling Salesperson Problem Implement Divide and Conquer approaches to solve problems for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement Backtracking Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool. Construct database tables with different DDL and DML statements and apply integrity constraints Apply Ocqueres for given Schema Use transaction and concurrency control techniques to analyze conflicts in multiple transactions. Construct database tables and JDBC/ODBC connectivity for given application Operating System Lab Use the Linux commands to write Shell scripting program using system calls. Analyze the performance of process scheduling algorithms based on CPU utilization and throughput. Write a program for deadlock detection and avoidance algorithms using C programming language. Analyze the performance of vieway management algorithms based on time complexity. Write aprogram for file management algorithms based on space complexity. Write aprogram for file management algorithms based on space complexity. Write aprogram for file management algorithms based on space complexity. Write aprogram for file management algorithms based on space complexity. Write aprograms to perform basic arithmetic operations on 8-bi/16-bi
CSC405.6 CSL401.1 CSL401.2 CSL401.3 CSL401.3 CSL401.4 CSL401.5 CSL401.5 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403.1 CSL403.2 CSL403.1 CSL403.2 CSL403.3 CSL403.4 CSL403.5 CSL403.6 CSL404.1 CSL404.2 CSL404.3 CSL404.4 CSL404.5 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.6 CSL404.7 CSL407 CSL407 CSL407 CSL407 CSL407 CSL407 CSL407 CSL407 CS	Compare 8086, 80386, Pentium 1, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture. Analysis of Algorithms Lab Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, Is puzzle problem Implement String Matching Techniques Database Management system Lab Design ER and EER diagram for the real life problem with software tool. Construct database tables with different DDL and DML statements and apply integrity constraints Apply SQL queries. ritigges for given Schema Use transaction and concurrency control lechniques to and concurrency control lechniques to and concurrency control lechniques to and properties. Operating System Lab Use the Linux commands to write Shell scripting program using system calls. Analyze the performance of process scheduling algorithms based on CPU utilization and throughput. Write a program for file management techniques based on space complexity. Analyze the performance of memory management algorithms based on time complexity. Analyze the performance of memory management techniques based on space complexity. Analyze the performance of process scheduling algorithms based on space complexity. Mrite a program for file management algorithms based on space complexity. Mrite assembly language programs to perform base and sports on shi?16-bit data. Write assembly language programs to perform based on space complexity. Mrite assembly language programs to perform based on space complexity. Mrite assembly language programs to perform based on space complexity. Mrite assembly language programs to perform based and sports person space complexity. Mrite assembly language programs to

CSI 405	Cl-11 Dans Lab Courses Deduce Description
COL 405 1	Skill Base Lab Course: Fython Programming
CSL405.1	Apply concepts of Input / Output, control statements and object oriented programming in python for performing arithmetic operations
CSL405.2	Use features of files, directories and regular expression in python for file manipulation
CSL405.3	Implement linked list, stacks, queues and dequeues data structures
CSL405.4	Develop Graphical User Interface, perform database operations and create web applications with Django web framework
CSL405.5	Implement multi-threading in python
CSL405.6	Use NumPv and Pandas packages for matrix manipulation and data analysis
CEM401	
CSM401	Mini Project B
CSM401.1	Identify societal, industrial needs and formulate problem statements followed by requirement analysis.
CSM401.2	Investigate the problem through appropriate literature Surveys.
CSM401.3	Design and develop solution using modern tools for the given problem.
CSM401.4	Work as an indiviual, contribute as a team member with effective management skills and ethical values.
CSM401.5	Develop effective communication/ technical writing skills through project presentation. Group discussion and report writing activities.
CSM401.6	Demonstrate canabilities of self-learning, leading to lifelong learning
	bemonsuate expansions of sen rearing, reading to motorg rearing.
000501	
CSC501	Theoretical Computer Science
CSC501.1	Apply NFA/DFA techniques for pattern matching.
CSC501.2	Construct Finite Automata for the given regular expression.
CSC501.3	Apply specified well defined rules for syntax verification
CSC501 4	
CSC301.4	Design, pushdown automata to recognize the language.
CSC501.5	Design Turing machine for formal language.
CSC501.6	Use compatibility, decidability, undecidability, complexity classes for formal languages.
CSC502	Software Engineering
CSC502 1	Solvar process models for software project development
CSC502.1	select process models for software project development.
CSC502.2	Identify requirements, analyze, and prepare Software Requirement Specification document format (IEEE).
CSC502.3	Apply Software Estimation techniques.
CSC502.4	Prenare effective project schedule
CSC502.5	Trepare encentre project sensuale.
CSC502.5	Design, develop ne sonware projects & identify fisks, manage the change to assure quanty in sonware projects.
CSC502.6	Apply testing principles on software projects & maintenance models.
CSC503	Computer Network
CSC503-1	Apply appropriate topologies for and to and communication
CSC503.1	Apply appropriate topologies to find to find communication.
CSC505.2	Compare Twisted pair, Coaxiai, Fiber optics transmission media.
CSC505.5	Analyze algorithms for error detection, error correction, multiple access control and identify IP Addressing.
CSC503.4	Analyze routing and congestion control algorithms.
CSC503.5	Apply sliding Window technique for TCP Flow control.
CSC503.6	Use HTTP, SMTP, Telnet, FTP, DHCP protocol at application layer.
CSC504	Data warshonsing and mining
CSC504 1	Dation a data wandhawa fan a giwan annliastian and narform OLAD answriting to take huingsa dataisign.
CSC504.1	Design a data watchouse for a given application and perform OLAP operations to take business decisions.
CSC504.2	Apply pre-processing techniques for a given data set to perform data cleaning, data transformation, data reduction, and data discretization
CSC504.5	Apply decision tree induction and Bayesian classification on a given data set for prediction
CSC504.4	Apply Partition and Hierarchical Clustering algorithms on a given data set to form the clusters
CSC504.5	Apply association mining techniques to identify interesting patterns
CSC504.6	Apply web mining algorithms on a given data for deriving complex information
CSDO501	Internet Programming
CSDL05012.1	Develop responsive web page(s) using HTML and CSS
CSDL 05012.2	Develop responsive web site using and constraint
CSDL05012.2	Develop whether and the start side processing using service and ICD
CSDL05012.5	Develop web page(s) whit solve indexesting using solvers and sol
CSDL05012.4	Develop rich internet application web page(s) using AJAX
CSDL05012.5	Develop web page(s) with XML and PHP extensions
CSDL05012.6	Develop web applications using React js
CSDO501	Advanced Database Management System
CSDL05013.1	Design distributed database using query processing techniques.
CSDL05013.2	Analyze query processing transaction and concurrency management techniques to avoid conflicts in multiple transactions.
CSDL05013.3	Organize the data using XML and JSON database for better interoperability.
CSDI 05013 4	Common different trans of NoSOI databases
CSDL05013.4	
CSDL05015.5	Formulate NoSQL queries using MongoDB.
CSDL05013.6	Compare various trends in advance databases through temporal, graph based and spatial based databases.
CSL501	Software Engineering Lab
CSL501.1	Identify requirements and apply software process model to a given case study.
CSL501.2	Design Data Flow Diagrams for given case study.
CSL501.3	Use software engineering tools for project scheduling and preparation of WBS.
CSL501.4	Develop architectural models for the selected case study.
CSL501.5	Develop test cases for the given case study on white box testing.
CSL501.6	Use computer-aided software engineering (CASE) tools.
CSL502	Commuter Natwork Lab
CSI 502 1	Use naturals simulator NS2 to explore naturaling electrichem on protocolo
CSL502.1	Use inclusion simulation (AS) to explore inclusioning augoritantis and productions.
CSL502.2	Implement and analyze follong strategies for an IP based networking intrastructure.
C3L302.3	Implement and analyze TCP/UDP socket programming for Chatting Application.

CSL502.4	Apply Linux networking commands for packet filtering.
CSL502.5	Use Network tools and simulators such as NS2. Wireshark etc. to explore networking algorithms and protocols
CSL 502 6	Use network simulator NS3 to syndra networking algorithms and protocols
CDL502.0	Use network sinuator 1455 to explore networking agonums and protocols.
CSI 502	Date Wand and in and Mining Lak
CSL505	Data warenousing and Mining Lab
CSL505.1	Design data warehouse and perform OLAP operations on a given input.
CSL503.2	Implement Pre-processing and Classification algorithms on a given data set.
CSL503.3	Implement Clustering algorithms on a given data set.
CSL503.4	Implement association rule mining algorithm on a given data set.
CSL503.5	Implement Web Mining algorithms on a given data set.
CSL503.6	Simulate Clustering, Classification and Association mining algorithms using WEKA tool
CSL504	Business Comm. & Ethics II
CSL504.1	Write effective business/ technical documents.
CSL504.2	Relate and apply strategies for personal and professional skills to meet the demands of the industry
CSL504.3	Apply various techniques to be successful in group discussions, technical presentation and meetings
CSL504.4	Deliver successful professional presentations.
CSL504.5	Develop creative thinking and interpersonal skills
CSL504.6	Apply codes of ethical conduct & organizational behaviour.
CSM501	Mini Project : 2A
CSM501.1	Identify societal, industrial needs, and formulate problem statement followed by requirement analysis.
CSM501.2	Investigate the problem through appropriate literature surveys
CSM501.3	Design and develop solution using modern tools for the given problem
CSM501.4	Work as an individual contribute as a team member with effective management skills and ethical values
CSM501.5	Work as an individual, controlled as a dam individual effective management stants and curcat values.
CSM501.6	Demonstrate canabilities of self-learning learning sub-information of the provident of the
2511301.0	benonsulae capacinities of sen-ical ning, icading to includig ical ning.
080601	Carton Decomposition & Countries Constanting
CSC601 1	System r rogramming & Compiler Construction
CSC001.1	Distinguish between application and system programs.
CSC601.2	Design of single pass and two pass assembler.
CSC601.3	Design of two pass macro processor, absolute loader and direct linking loader.
CSC601.4	Demonstrate the compilation process for given program statement.
CSC601.5	To solve the parsing problems using appropriate parsing techniques.
CSC601.6	Apply Intermediate code generation and code ontimization techniques on given input program statement
00000110	rippy interine and code optimization techniques on given input program statement.
CSC602	Cryptography & System Security
CSC602.1	Use classical encryption techniques for data encryption.
CSC602.2	Apply symmetric and asymmetric key cryptography to solve confidentiality and authentication problems
CSC602.2	reprisiping and with the effective of expression of the end of the
CSC002.5	Analyze the cryptographic hash functions and message digest algorithms to check data integrity
CSC602.4	Analyze the cryptographic hash functions and message digest algorithms to check data integrity
CSC602.5	Evaluate the performance of firewalls and security protocols like SSL, IPSec, and PGP.
CSC602.6	Evamina malicious coda using system security concents
CDC002.0	
GG G G G G G G G G 	
CSC603	Mobile Computing
CSC603.1	Identify basic concepts and principles in mobile communication & computing, cellular architecture.
CSC603.2	Identify the components and functioning of mobile networking.
CSC603.3	Classify Medium Access, Internet and Transport Layer Protocols in Mobile networking.
CSC603.4	Apply the concepts of WLAN for local as well as remote applications
CSC603 5	Apply the concepts of mobility menagement to solve equivieusing in Mobile Computing
CSC603.6	Appy and concepts of moonly management to solve security issues in moone computing.
CSC005.0	Identity the components of Long-Term Evolution (LTE) are intercure.
CCCC	
CSC604	Artificial Intelligencee
CSC604.1	Identify the types of environment and illustrate the working of intelligent agents
050(04.2	
CSC604.2	Solve given problem using uninformed and informed search techniques.
CSC604.3	Solve given problem using local search and adversarial search techniques
CSC604.4	Use knowledge representation language for knowledge presentation and apply reasoning techniques to solve given problem.
CSC604 5	
0004.5	Use planning techniques to generate a plan for given planning problem.
CSC604.6	Analyze the real world AI applications.
CSDLO6011	Internet of Things(IoT)
CSDI 06011-1	Identify the absractoristics and aballances of an IoT application
CSDL00011.1	Identify the characteristics and chanenges of an for appreciation.
CSDL06011.2	select appropriate Sensor, Actuators and implement methodology, sensor network for an IoT application.
CSDLO6011.3	Design and manage communication network and process data for an IoT application.
CSDLO6011.4	Select appropriate protocols for web based IoT application.
CSDI 06011 5	Design approximation for societal and industrial pand
C3D100011.5	Design smart of application for societa and industrial need.
CSDLO6011.6	Construct an IoT application using Arduino/Raspberry Pi
CSDLO6013	Quantitative Analysis
CSDLO6013.1	Examine the problem and identify the appropriate presentation method
CSDL06013.2	Analyze the problem and identify the suitable data collection and the sampling method
	many to the prototom and identify the surface data concertion and the sampling method

CSDLO6013.3	Analyze the data using Regression for the purpose of estimation
CSDLO6013.4	Analyze the data using Multiple Linear Regression for the purpose of estimation
CSDI 06013 5	Analyze the data and identify the appropriate Statistical inference method
CSDL06013.5	Analyze the data and referre section of hereachanic
C3DL00013.0	Analyze the data and perform testing of hypothesis
CSL601	System Programming & Compiler Construction Lab
CSL601.1	Design and develop databases for two pass assembler with data structure.
CSL601.2	Design and develop two pass Macro-Processor with data structure.
CSL601.3	Implement Lexical analyzer phase of compiler
CSL601.4	Implement syntax analyzer phase of compiler.
CSL601.5	Implement synthesis phase of compiler.
CSL601.6	Implement synthesis phase of compiler
00200110	
CSI 602	Crystography & System Security Lab
CSL602 1	Cryptograppy & System Security Lau
CSL002.1	Impenent classical encryption techniques
CSL002.2	Implement symmetric and asymmetric key cryptography
CSL602.3	To analyze performance of hashing algorithm
CSL602.4	To Apply digital signature algorithm to verify integrity and achieve authentication
CSL602.5	To use network reconnaissance tools to gather information about networks and use tools like sniffers and ARP spoofing
CSL602.6	To use various attacks like buffer-overflow and web application attack
CSL603	Mobile Computing Lab
CSL603.1	Develop and demonstrate mobile applications using frequency reuse and Bluetooth technologies.
CSL603.2	Implement Code Division Multiple Access (CDMA) to test the orthogonality and autocorrelation of a code.
CSL603.3	Implement security algorithms for mobile communication network
CSL603.4	Configure the access point of Wi-Fi
CSI 603 5	Develop mobile application using GUI components and database
CSL 602.6	Les CDS location treation tamp COT components and database.
C3L005.0	Use Or 5 location tracking technology in an appreciation.
CSI 604	
CSL004	Arutical intelligence Lab
CSL004.1	Analyze PEAS descriptors of an intendent agent.
CSL604.2	Implement Uninformed searching agortums for problem solving
CSL604.3	Implement Informed searching algorithms for problem solving.
CSL604.4	Create a knowledge base using any AI language.
CSL604.5	Create Inference system using reasoning technique for given AI problem
CSL604.6	Identify the components of AI applications in the field of NLP and Healthcare.
CSL605	Skill base Lab Course: Cloud Computing
CSL605 CSL605.1	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology.
CSL605 CSL605.1 CSL605.2	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application
CSL605 CSL605.1 CSL605.2 CSL605.3	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds.
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues .
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization.
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization.
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSL605.6	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization.
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSL605.6	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization. Mini Project Lab: 2B Identify societal industrial needs and formulate problem statement followed by requirement analysis
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSM601 CSM601.1 CSM601.2	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization. Mini Project Lab: 2B Identify societal, industrial needs and formulate problem statement followed by requirement analysis.
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSM601 CSM601.1 CSM601.2	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization. Mini Project Lab: 2B Identify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Design during exclusion endower is the forether is given application
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSM601 CSM601.1 CSM601.2 CSM601.3	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/IaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization. Mini Project Lab: 2B Identify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Design and develop solution using modern tools for the given problem
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CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSM601.1 CSM601.2 CSM601.3 CSM601.4 CSM601.5 CSM601.1 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.2 CSM601.2 CSM601.2 CSM601.3 CSM601.4 CSM601.5 CSC701 CSC701.1 CSC701.1 CSC701.2 CSC701.4 CSC701.6 CSC702	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services Saat/PaaS/haaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization. Mini Project Lab: 2B Identify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Design and develop solution using modern tools for the given problem Work as an individual; contribute as a team member with effective management skills and ethical values. Develop effective communication / technical writing skills through project presentation, Group discussion and report writing activities Demonstrate capabilities of self-learning, leading to lifelong learning. Mini Project Lab: 2B Identify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Design and develop solution using modern tools for the given problem Work as an individual; contribute as a team member with effective management skills and ethical values.
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSM601.1 CSM601.2 CSM601.3 CSM601.4 CSM601.5 CSM601.1 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.3 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.2 CSM601.2 CSM601.3 CSM601.4 CSM601.3 CSM601.4 CSM601.5 CSM601.6 CSC701 CSC701.2 CSC701.1 CSC701.2 CSC701.2 CSC701.2 CSC701.5 CSC702.1	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SanS/PaaS/TaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to adfress security issues. Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization. Mini Project Lab: 28 Identify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Design and develop solution using modern tools for the given problem Work as an individual; contribute as a team member with effective management skills and ethical values. Develop effective communication / technical writing skills through project presentation, Group discussion and report writing activities Demonstrate capabilities of self-learning, leading to lifelong learning. Mini Project Lab: 28 Identify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Develop effective communication / technical writing skills through project presentation, Group discussion and report writing activities Develop effective communication / technical writing skills th
CSL605 CSL605.1 CSL605.2 CSL605.3 CSL605.4 CSL605.5 CSL605.6 CSM601.1 CSM601.2 CSM601.3 CSM601.4 CSM601.5 CSM601.1 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.3 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.1 CSM601.2 CSM601.3 CSM601.3 CSM601.4 CSM601.5 CSM601.6 CSC701.2 CSC701.2 CSC701.2 CSC701.4 CSC701.4 CSC701.5 CSC701.6 CSC702.1 CSC702.1 CSC702.1 CSC702.1 CSC702.1 CSC702.2	Skill base Lab Course: Cloud Computing Create virtual machines using open source technology. Compare cloud computing services SaaS/PaaS/JaaS for a given application Design and develop real world web applications and deploy them on commercial clouds. Deploy cloud services to address security issues . Identify commercially available cloud services and recommend the appropriate one for the given application Implement the concept of containerization. Mini Project Lab: 2B Udentify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Design and develop solution using modern tools for the given problem Work as an individual: contribute as a team member with effective management skills and ethical values. Develop effective communication / technical writing skills through project presentation, Group discussion and report writing activities Demonstrate capabilities of self-learning, leading to lifelong learning. Mini Project Lab: 2B Identify societal, industrial needs and formulate problem statement followed by requirement analysis. Investigate the problem through appropriate literature surveys. Design and develop solution using modern tools for the given problem Work as an individual: contribute as a team member with effective management skil

CSC702.4	Apply filtering techniques, counting distinct element and counting ones in window algorithms on data stream
CSC702.5	Apply mering teeningues, counting usinet content and counting ones in window algorithms on data steam.
CSC702.5	
CSC/02.6	Apply statistical computing techniques and graphics for analyzing big data using R programming language.
CSDC7011	Machine Vision
CSDC7011.1	Describe the components of Machine Vision
CSDC7011.2	Perform transformation and interpolation for image, video pre-processing
CSDC7011.3	Identify hardware and software components for machine vision applications
CSDC7011.5	A cale for the second
CSDC/011.4	Apprintering and segmentation techniques to preprocessing of digital image
CSDC/011.5	Apply motion analysis techniques on video for motion tracking
CSDC7011.6	Analyze the case study of machine vision applications
CSDC7013	Natural Language Processing
CSDC7013.1	Identify Challenges of NLP and ambiguities in natural language
CSDC7013.2	Anniv Mornhological analysis annroaches on the given data
CSDC7012.2	Apply interprotogram margins approximation in e-gran data
CSDC7013.3	Apply Synactic analysis approaches on the given data
CSDC/013.4	Apply Semantic Analysis techniques on the given data.
CSDC/013.5	Apply Pragmatic and Discourse Analysis techniques on the given data.
CSDC7013.6	Design NLP based application.
CSDC7021	Augmented and Virtual Reality
CSDC7021.1	Describe working of VR systems
CSDC7021.2	Apply geometric presentation of the virtual world and its operations
CSDC7021 3	Apply the concepts of motion and tracking in VR systems to real world problem
CSDC7021.4	Apply the knowledge of bardware that enables VR systems while developing it
CSDC7021.4	Apply the knowledge of nardware that chaoles YK systems while developing it.
CSDC7021.5	Apply the knowledge of working of AK systems to analyze the nardware requirement of AK.
CSDC/021.6	Apply the knowledge of AK concepts to select a problem statement which has a better candidature for AR system.
CSDC7022	Block Chain
CSDC7022.1	Explain general blockchain concepts
CSDC7022.2	Apply the knowledge of Cryptocurrency Wallets used in the blockchain
CSDC7022.3	Annu the concerts of smart contracts used in the blockchain
CSDC7022.5	Apply the concepts of smaller contract used in the object small
CSDC7022.4	Apply the concept of public blockhain technology
CSDC/022.5	Inustrate the various private blockchain technologies
CSDC7022.6	Evaluate various tools and applications of blockchain
ILO7013	Management Information System
ILO7013.1	Identify the impact of information systems on an organization
ILO7013.2	Use tools and technologies to access database information for improving business performance and decision making
II 07013 3	Identify the threats to information systems and apply security controls for IS
ILO7013.3	Identify the unclus to information systems and apply security controls for the
ILO7013.4	Identify use of social computing for business-snopping, warkening, Operational and Analytic CKM, E-business and E-commerce.
ILO/013.5	Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.
ILO7013.6	Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management
ILO7016	Cyber Security and Laws
ILO7016.1	Illustrate the concept of cybercrime, cyber-frauds, cybercriminal types with their motives with respect to cybercrime.
II 07016 2	Analyze and discriminate cyberattack types with tools used for attacks
IL 07016.3	Manufist the security challences presented by mobile devices and infer measures for protecting the same
ILO7010.5	Indentity the security chanced so have been and the formation for measures for proceeding the same.
ILO/016.4	Discover and apply different aspects of cyber law and information Security Standards compliance.
ILO/016.5	Discover and understand different aspects of cyber laws.
ILO7016.6	Distinguish different aspects of cyber crime and Indian IT Act.
CSL701	Machine Learning Lab
CSL701.1	Analyze the data and Apply appropriate Regression Technique on the given Dataset
CSL701.2	Analyze the results obtained by applying appropriate Classification Technique on the given Dataset
CSI 701 3	Analyze the results obtained by applying appropriate Ensemble Technique on the given Dataset
CSL701.5	Analy ze de l'estats obtained by applying appropriate Ensemble Ferningde on die given Dataset
CSL/01.4	Apply appropriate Unsupervised Technique on the given Dataset
CSL701.5	Analyze the results obtained by applying Dimensionality Reduction on the given dataset
CSL701.6	Build a Machine Learning Application
CSL702	Big Data Analytics Lab
CSL702.1	Use Sqoop tool in Hadoop ecosystem for big data analytics.
CSL702.2	Implement Map Reduce algorithm on structured and unstructured data
CSI 702 3	Perform NoSOL commands on Cascandra, Hadoon HBase and MongoDR
CSL702.5	Implement filtering a counting the desired almost and counting area in wirdow a beginnes or date stream.
CSL702.4	Impendent mering, counting distinct element and counting ones in window agorithms on data stream.
CSL/02.5	Implement data visualization techniques on social network graphs using R
CSL702.6	Built real life application on big data analytics
CSDL7011	Machine Vision Lab
CSDL7011.1	
	Perform transformation and interpolation for image, video pre-processing
CSDL7011.2	Perform transformation and interpolation for image, video pre-processing
CSDL7011.2 CSDL7011.3	Perform transformation and interpolation for image, video pre-processing Implement edge detection and depth estimation algorithms using canny Implement Object segmentation using the Watershed and GrabCut algorithms
CSDL7011.2 CSDL7011.3 CSDL7011.4	Perform transformation and interpolation for image, video pre-processing Implement edge detection and depth estimation algorithms using canny Implement Object segmentation using the Watershed and GrabCut algorithms Perform face detection algorithms on image/video

CSDL7011.5	Implement Object detection techniques using OpenCV
CSDL7011.6	Implement Bag-of-word(BOW) algorithm to create object detector
CSDI 7013	Natural Language Processing Lab
CSDL7013	Andersteine servering technismen einer inner
CSDL/013.1	Apply text processing techniques on given input
CSDL/013.2	Apply word level analysis techniques on the given data
CSDL7013.3	Apply Syntax Analysis techniques on the given data
CSDL7013.4	Apply Semantic Analysis techniques on the given data
CSDL7013.5	Apply Discourse Analysis techniques on the given data
CSDL7013.6	Design NLP based application
CSDL7021	Augmented and Virtual Reality Lab
CSDI 7021 1	Setup VR development environment like Unity and Visual Studio
CSDL7021.2	Francis working of VP assistants like Gooda Gardboard Gooda Davdraam. Samsung gaar VP and HTC Viva
CSDL7021.2	Examine working of vice advalues cone is VD environment Unit:
CSDL/021.5	Apply the concepts to develop scheme in VK environment Unity
CSDL/021.4	Apply the concept of color, material and texture to objects in a scene created in Unity
CSDE/021.5	Apply Rigid body component, material and Box collider to Game Objects
CSDL7021.6	Demonstrate use of Augmented Face Features
CSDL7022	Block Chain Lab
CSDL7022.1	Create Cryptographic merkle root to provide integrity
CSDL7022.2	Create digital signature to perform authentication
CSDL7022.3	Design Smart Contract using Solidity.
CSDL7022.4	Implement ethereum blockchain using Geth
CSDL7022.5	Implement ethereum blockchain using Ganache and Truffle
CSDL7022.6	Use the tool to demonstrate the concept of blockchain in real world application.
CSP701	Maior Project 1
CCD701 1	Explore beyond the curriculum to identify problem of society, industrial or research needs; investigate the problem in-depth interature survey and
CSP/01.1	propose appropriate solution to solve the problem.
CSP/01.2	Implement the methodology with modern tools and provide sustainable solution with effective utilization of the resources available.
CSP/01.3	Analyze and compare the results with the standard results.
CSP/01.4	Work as an individual and contribute as a team member with effective management skills to achieve a common objective.
CSP701.5	Write and present their work effectively with ethical values.
CSP701.6	Engage themselves in area of their interest applying the knowledge gained and explore new technical trends.
CSC801	Distributed Computing
CSC801 CSC801.1	Distributed Computing apply the concepts of distributed systems and its types
CSC801 CSC801.1 CSC801.2	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware
CSC801 CSC801.1 CSC801.2 CSC801.3	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Distributed File Systems to perform file management tasks Distributed File Systems to perform file management tasks
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012 CSDC8012	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012 CSDC8012.1 CSDC8012.2	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.1 CSDC8012.2 CSDC8012.3	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Annyle the knowledge of various toole too analyze motive and management digital evidence
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4 CSDC8012.5	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4 CSDC8012.5 CSDC8012.6	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4 CSDC8012.5 CSDC8012.6 CSDC8012.6	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4 CSDC8012.5 CSDC8013.6	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report Applied Data Science
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.1 CSDC8012.3 CSDC8012.3 CSDC8012.4 CSDC8012.5 CSDC8013.1 CSDC8013.1 CSDC8013.1	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report Applied Data Science Understand the concepts of data science
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.1 CSDC8012.2 CSDC8012.4 CSDC8012.4 CSDC8012.5 CSDC8012.6 CSDC8013.1 CSDC8013.1 CSDC8013.2	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report Applied Data Science Understand the concepts of data science Apply data explorations techniques on the given data
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4 CSDC8012.5 CSDC8012.5 CSDC8012.6 CSDC8013.1 CSDC8013.1 CSDC8013.2 CSDC8013.3	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report Understand the concepts of data science Apply data explorations techniques on the given data Apply data visualization techniques and validation techniques on the given data
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSC801.6 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.4 CSDC8012.6 CSDC8013.1 CSDC8013.1 CSDC8013.2 CSDC8013.3 CSDC8013.4	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report Apply data explorations techniques on the given data Apply data visualization techniques on the given data Apply data visualization techniques on the given data Apply anomaly detection techniques on the given data and deal with the outliers to make the data appropriate for an ML algorithm
CSC801 CSC801.1 CSC801.2 CSC801.3 CSC801.4 CSC801.5 CSDC8012 CSDC8012.1 CSDC8012.2 CSDC8012.3 CSDC8012.3 CSDC8012.4 CSDC8012.5 CSDC8013.1 CSDC8013.1 CSDC8013.2 CSDC8013.3 CSDC8013.4 CSDC8013.5	Distributed Computing apply the concepts of distributed systems and its types illustrate the middleware technologies that support RPC, RMI and object-based middleware analyze the techniques used for clock synchronization, mutual exclusion and deadlock use the concepts of resource and process management for designing systems use the concepts of consistency, replication management and fault tolerance for designing systems use the knowledge of distributed file systems to perform file management tasks Digital Forensic Explain the various phases of Digital Forensics and methodology to handle the security incident Use the process of collection, analysis and recovery of the digital evidence Apply the knowledge of various tools to analyze malwares and images of hard disk/RAM Investigate Windows and UNIX systems Analyze digital evidence in Mobile Devices Investigate Web Browser, Email and generate report Applied Data Science Understand the concepts of data science Apply data explorations techniques on the given data Apply data visualization techniques on the given data Apply data visualization techniques on the given data and deal with the outliers to make the data appropriate for an ML algorithm Analyze the performance of a model and apply time series forecasting methods
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ILO80214	Identify opportunities and threats to decide risk response strategy of a project
ILO8021 5	Apply Farned Value Management techniques to determine & predict status of the project and implement project termination process
IL 08021.6	Application of the second
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IL-08025	Professional Ethics and CSR
IL 08025 1	Understand rights and duties of business
IL 08025.2	Concernance regions and evaluates of operations.
ILO8025.2	Analyze and Demonstrate professional ethics of construction and ich discrimination
ILO8025.5	Analyze and avalue a liferant actions of construct protection and you discrimination.
ILO8025.4	Describe and analyze unreferr aspects of collaporate social responsibility.
ILO8025.5	Analyze metreatedness of enerprises and corporate social responsionity.
11.03025.0	Conditional regardapped social responsionity.
II ()8020	Environmental Management
IL 08029	Environmental vianagement
ILO8029.1	Make use of knowledge of Environment Management for sustainable development
П.О8029.2	Authority the Environmental Concerns for the spectrum nazard
П.О8029.5	Apply the Concept of Econogy to know the menetablemented overther and the mean states and the states of the states
ILO8029.4	Apply une concept of Corporate Env Responsionity for Environmental Quanty Management
П.О8029.5	Categorize the ISO-14000 standards and indeficient of procedure of ENS Certification
1L08029.6	Unizze the knowledge of Environmental legislations for sustainable development
CSI 901	Distributed Commuters Leb
CSL801 1	Distributed Computing Lab
CSL801.1	Implement message-oriented Communication of KPC/KMI based cnent-server programs.
CSL801.2	Implement techniques for clock synchronization
CSL801.5	Implement techniques for election agortunits
CSL801.4	Implement mutual exclusion and deadlock nandling techniques
CSL801.5	Implement techniques or resource and process management
CSL801.0	Implement distributed nie systems
CEDI 9012	Di sida Denometra Lak
CSDL8012	Digital Forensies tools to accurate durificate and analyze data and anazura detail.
CSDL8012.1	Use various foreinses tools to acquire, duplicate and analyze data and recover deleted data
CSDL8012.2	Evaluate performance in the stand stand in the second stand stan
CSDL8012.5	Use various forensics tools to activate and analyze live and static data
CSDL8012.4	Use various forensics tools to extract entants evidence
CSDL8012.5	Use various forefistes tools to extract web browsets related evidence
C3DL8012.0	Discuss real line chille foreisics
CSDI 9013	Applied Data Science Lab
CSDL8013	Applied Data Science Lab
CSDL8013.1	Apply Data Exponentian techniques on the given data
CSDL8013.2	Apply Data (reparation commutes on the given data Apply Data (reparation commutes on the given data
CSDI 8013.5	Appry Data visuarization techniques and vandation techniques on the given data
CSDI 8013.5	Detect and Deal with Anothenes in the data and initialized in the data
CSDL8013.5	Implement Time Series forecasting on the given dataset
C3D18013.0	
CSDI 8022	High Performance Computing Lab
CSDI 8022 1	Perform Linux based commands on remote machine
CSDI 8022.2	Compare the performance of security algorithms with parallel algorithm in terms of execution time, speedup and throughout
CSDL8022.2	Compare the performance of sequenciar agommus with paranet agommun in errors of execution time, speedup and unoughput.
CSDL8022.5	Implement parallel program using OPEIntra nama analyze its performance
CSDL8022.4	Implement parallel program using for 1 platform and analyze its performance
CSDL8022.5	Implement parallel program using CUIDA framework and analyze is performance
C5D13022.0	Implement paramet program using CODA manework and analyze its performance
CSP801	Major Project. 2
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CSP801 1	Expose beyond the currentiatin to relearly problem of society, industrial of research needs; investigate the problem through in-depin literature survey and
CSP801.2	propose appropriate solution to solve the problem.
CSP801.2	Impendent uie inculoeology with motern tools and provide sustainable solution with effective utilization of the resources available.
CSP801.5	Analyze and compare the festils with the standard results.
CSP801.4	Write and present their work official with other values
CSP801.5	The and present und wolk Effectively will efficient values.
C3P 801.0	langage memserves in area of men interest apprying the knowledge gamed and explore new technical fields.