## Vidyavardhini's college of Engineering & Technology Vasai(w) Department of Computer Engineering Course Outcomes for R-2012 Syllabus

Program Outcomes

PO1. Engineering prob	ng knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex
PO2. Problem a	nalysis: 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/de with appropriate	velopment of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4. Conduct is data, and synthes	<b>nvestigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of is of the information to provide valid conclusions.
PO5. Modern to engineering activ	<b>bol usage</b> : Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex ities with an understanding of the limitations.
PO6. The engin responsibilities r	eer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent elevant to the professional engineering practice.
PO7. Environm knowledge of, ar	ent and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the id need for sustainable development.
PO8. Ethics: Ap	pply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9. Individua	and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10. Commun comprehend and	ication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11. Project r as a member and	nanagement and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, leader in a team, to manage projects and in multidisciplinary environments.
PO12. Life-long technological cha	elearning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of ange.
	Decement Constitute Outcomes
	Program Specific Outcomes
PSO1: Analyze p computational to	problems and design applications of database, networking, security, web technology, cloud computing, machine learning using mathematical skills, and ols.
PSO2: Develop o industry.	computer-based systems to provide solutions for organizational, societal problems by working in multidisciplinary teams and pursue a career in the IT
	Course Outcomes
FEC101	Applied Mathematics I
FEC101.1	Appry the concepts of Complex Numbers, hypertonic functions and rogaritums to solve engineering proteins. Solve and Analyze Partial Derivatives and annly it in related field of Engineering.
FEC101.3	Apply principals of basic operations of matrices, rank and echelon form of matrices to solve linear simultaneous equations & Curve Fitting.
FEC101.4	Apply Numerical Methods and Inculcate the habit of Mathematical thinking through Indeterminate forms, Taylor's Series Expansion and by using
	Scilab.
FEC102	Applied Physics I
FEC102.1	Students will be able Draw miller indices using concept of crystallography and Identify crystal structure using X-ray diffraction techniques viz. Laue method, rotating crystal method & powder method.
FEC102.2	Students will be able Determine the output of LED, photoconductor and photovoltaic cell applying concepts of semiconductor physics.
FEC102.3	Students will be able Classify dia, Para and Ferro magnetic material based on susceptibility value using qualitative treatment of Langvein and Weiss
FEC102.4	Students will be able Design acoustic of hall/auditorium using reasons for acoustic defects and Select method for production of ultrasonic waves.
EEC102	
FEC103 1	Applied Chemistry 1 Students will be able Analyze the quality of water and suggest methods of treatment
FEC103.2	Students will be able Hullytze the quarty of water and suggest includes of unclaiment.
FEC103.3	Students will be able Apply the knowledge of lubricants, their properties & mechanism to avoid frictional resistance and interpret phase transformations using thermodynamics
FEC103.4	Students will be able Demonstrate knowledge of portland cement.
FEC104	Engineering Mechanics
FEC104.1	Students will be able to Illustrate the concept of resultant for different types of force systems and locate the centroid for plane composite lamina.
FEC104.2	Students will be able to Analyse the support reactions, trusses and rear the application of inction by using conditions of equilibrium. Students will be able to Analyse the motion of particles and rigid bodies by establishing the kinematic relation between displacement, velocity and acceleration
FEC104.4	Students will be able to Analyse body in motion using force and acceleration, work-energy, impulse- momentum principles.
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FEC105	Basic Electrical & Electronics Engineering
FEC105.1	Students will be able to understand fundamentals of DC circuits and apply knowledge for analyzing network theorems in DC circuits.

FEC106	Environmental Studies
FEC106.1	Classify essential resources and control measures for sustainable development.
FEC106.2	Illustrate sources and effects of environmental decay.
FEC106.3	Select renewable sources of energy and technology essential for sustainable development.
FEC106.4	Apply the regulations of Environmental Protection Act and other bodies for perpetuation of environment.
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FEL101	Basic Workshop practice-I
FEL101.1	Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint.
FEL101.2	Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint.
FEL101.3	Perform various basic House Wiring techniques while taking care of electrical safety.
FEL101.4	Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc.
FEC201	Applied Mathematics II
FEC201.1	Students will be able to apply euler, runge kutta method to solve differential equations of second and fourth order and apply trapezoidal, simpson's
EEG201.2	1/3rd, simpson's % th rule to solve definite integrals numerically and by using scilab.
FEC201.2	Students will be able to Solve dimerential equations of inst order, inst degree and engineering problems representable in form of linear differential
EEC201.2	equations with constant coefficients, cauchy singlender a nonnegenous equations
FEC201.5	Students will be able to apply beta, Gamma functions and D.U.F.S.to evaluate definite integrals.
FEC201.4	Students will be able to apply double /inple integration to find area, mass, volume and find rengin of the curve using schao and rectification meniod.
FFC202	Applied Physics II
FEC202	Apprent mysics in Apprent mysics in Students will be able to Calculate thickness of thin wire or foil to wedge-shared thin film refractive index wavelength of light /or radius of curvature to
120202.1	Newton's rings in interference annication and calculate insisting order, grating element wavelength of light using diffraction grating considering
EEC202.2	Students will be able to Calculate approximation and a contact of according to the year of modes of modes of modes and another of according these states and the states of
1 EC202.2	and compare characteristics of images received by photography and holography
FEC202.3	and compare enhancements of images received by photography and notography and notography
FEC202.5	Students will be able to Apply concert of electromagnetism in the networks using interface and calculate motion of the particle using time
120202.1	
FEC203	Applied Chemistry II
FEC203.1	Students will be able to Illustrate types of corrosion & suggest control measures in industries.
FEC203.2	Students will be able to Analyze the quality of fuel & calculate the oxygen required for combustion of fuel.
FEC203.3	Students will be able to Illustrate composition, properties of alloys & properties & application of composite material.
FEC203.4	Students will be able to Illustrate the principles of green chemistry.
FEC204	Engineering Drawing
FEC204.1	Students will be able Apply the basic principles of projections in Projection of Lines, Planes and Engineering Curves.
FEC204.2	Students will be able Apply the basic principles of projections in Projection of Solids & Section of solids
FEC204.3	Students will be able Visualize the given 3D object and draw Orthographic projections
FEC204.4	Students will be able Draw Isometric view from the given orthographic projections
FEC204.5	Students will be able Draw Orthographic and Isometric Projection using AutoCad
FEC205	Structured Programming Approach
FEC205.1	Students wil be able to write an algorithm to support Structure Programming approach.
FEC205.2	Students will be able to use variables, derived data types and control structures to write c program
FEC205.5	Students will be able to use Surings and Functions to solve complex computational problem
FEC203.4	Students will be able to use Fonners, Studente-Onion and Files for solving complex complex unpredicted problem
FFC206	Communication Skills
FEC206 1	Students will be able to develop the ability to understand the importance of communication fundamentals
FEC206.2	Students will be able to apply techniques to improve oral communication & develop their own speaking style.
FEC206.3	Students will be able to acquire the letter writing skills and produce the letters in any given situation.
FEC206.4	Students will be able to learn all the important aspects of reading including skimming, scanning, note making and understand discourse coherence.
FEL201	Basic Workshop practice-II
FEL201.1	Students will be able to Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint.
FEL201.2	Students will be able to Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint.
FEL201.3	Students will be able to Read various basic Layout drawing; make positive and negative film, and perform PCB etching and drilling, Tinning and
FEL201.4	Students will be able to Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components
	and perform Basic networking and crimping.
CSC301	Applied Mathematics III
CSC301.1	Apply the concept of Fourier Series for expansion of periodic functions.
CSC301.2	Apply Laplace transform, Inverse Laplace transform & Z- transform to different applications.
CSC301.3	Apply Principles of Vector differentiation and Integral calculus to the analysis of engineering problems.
CSC301.4	Understand complex variables and functions and perform mapping using different techniques.
CECOM	
CSC302	Object Oriented Programming Methodology
CSC302.1	Apply Object Oriented Programming principles and implement the program using Control Structures and Recursion
CSC302.2	Annhy the concept of Utass, Method, Object, Inheritance in Java.
CSC302.3	Apply the concepts of interface, Packages, I fread and Exception handling in Java.
CSC302.4	Use Aw 1 and Applet for developing user interface in Java
CSC303	Noto Churchanaa
000303	Data Structures

CSC303.1	Identify data structure suitable to the problem definition
CSC303.2	Demonstrate operations on linear data structures
CSC303.2	
CSC303.3	Use methods of organizing large amounts of data for non linear data structures.
CSC303.4	Use appropriate searching and/or sorting technique for application development
CSC304	Digital Logic Design and Applysis
CSC304 1	Digital Logic Design and Analysis
CSC304.1	Apply logic for the conversion of one number system to other number system and design logic circuits using gates.
CSC304.2	Analyze and design combinational circuits using gates/multiplexers.
CSC304 3	Analyze and design sequential circuits using Flin Flons
CSC204.4	Analyze and design sequential encounts using the resp.
CSC304.4	Analyze framework of VHDL program, CPLD and FPGA.
CSC305	Discrete Structures
CEC205 1	
CSC305.1	Apply set notations and rules of mathematical logic for problem solving.
CSC305.2	Analyze lattices using relation between sets.
CSC305.3	Solve problems based on functions and draw graphs, trees for programming applications
CSC205 4	Development of the second seco
CSC303.4	Use algebraic structures for groups. And apply codes for Encoding – Decoding.
CSC306	Electronic Circuits and Communication Fundamentals
CSC306.1	Analyze the Junction Field Effect Transistor and Compare oscillators, nower amplifiers in communication systems
CSC206.2	This year of the and the transformed compare oscillations, power amplitudes in communication systems.
CSC306.2	Analyze inverting/non-inverting operational amplifiers and their applications and implement them.
CSC306.3	Analyze AM/FM Modulation/Demodulation techniques.
CSC306.4	Compare and analyze Pulse Modulation generation/detection and Multiplexing techniques.
CSC401	Applied Mathematics-IV
CSC401.1	Apply matrix theory to solve the system of linear equations and sizes where and sizes where a data is a solve the size of the
000401.1	Apply matrix meory to solve the system of linear equations and eigen values and eigen vectors and their applications.
CSC401.2	Apply probability theory and find statistical measures for discrete and continuous random variables.
CSC401.3	Evaluate contour Integration and expand the analytic functions inside circle.
CSC401.4	Solve the problems using various optimization techniques to optimize LPP & NLPP and correlation & regression
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22212	
CSC402	Analysis of Algorithms
CSC402.1	Calculate the efficiency of an algorithm and analyze the problem using divide and conquer approach.
CSC402.2	Apply Greedy method and Dynamic Programming problem solving strategies to solve real world problems
CSC402.2	Apply of each law a back has been been been so the structure of the formation of the protections.
C3C402.3	Analyze problems on backtracking, branch and bound strategies.
CSC402.4	Analyze strategies for solving problems not solvable in polynomial time and use String Matching Algorithms.
CSC403	Computer Organization and Architecture
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CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.3 CSC404.3 CSC404.3 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC405.4	Computer Organization and Architecture Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations. Analyze the data processing operations of central processing and compare RISC/CISC. Classify parameters of cache/virtual memory and implement memory mapping techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Database Management System Demonstrate data models and schemas in database management system Design ER/EER model for given case study and relational databases. Apply SQL queries for relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems Design ER/DFA techniques for pattern matching Apply specified well defined rules for syntax verification Analyze and design PDA, Deterministic Turing Machine for formal languages Use computability, decidability, undecidability, complexity classes for formal languages.
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CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404.1 CSC404.1 CSC404.2 CSC404.3 CSC404.3 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2	Computer Organization and Architecture Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations. Analyze the data processing operations of central processing and compare RISC/CISC. Classify parameters of cache/virtual memory and implement memory mapping techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Database Management System Demonstrate data models and schemas in database management system Design ER/EER model for given case study and relational databases. Apply SQL queries for relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems  Theoretical Computer Science Apply NFA/DFA techniques for spattern matching Apply specified well defined rules for syntax verification Analyze and design PDA, Deterministic Turing Machine for formal languages. Use computability, decidability, undecidability, complexity classes for formal languages.  Computer Graphics Apply 2D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.3	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Compare I/O modules, a089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Theoretical Computer Science           Apply NFA/DFA techniques for pattern matching           Apply specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages           Use computability, decidability, undecidability, complexity classes for formal languages.           Computer Graphics           Apply SD geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.3 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.3 CSC406.4	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Computer Organization and Architecture           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Computer Organization and RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Computer System           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems              Mapply NFA/DFA techniques for pattern matching           Apply specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages           Use computer Billity, decidability, complexity classes for formal languages.           Use computer Stores algorithms to draw point, line, circle, ellipse and scan line, flood fill, boundary fill algorithms to fill the polygon area.           Apply Dg geometric transformations, viewing and line/polygon clipping algo
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.1 CSC404.3 CSC404.3 CSC404.3 CSC404.4 CSC405.1 CSC405.1 CSC405.2 CSC405.4 CSC406.1 CSC406.1 CSC406.2 CSC406.4	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Theoretical Computer Science           Apply SPA/DFA techniques for pattern matching           Apply specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages           Use computability, decidability, complexity classes for formal languages.           Use computability, decidability, undecidability, complexity classes for formal languages.           Apply Space conversions algorithms to draw point, line, circle, ellipse and scan line, flood fill, boundary fill algorithms to fill the polygon area.           Apply 2D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply SD geometric transformations, clipping algorithm on graphical objects, construct the curves, and derive
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.3 CSC404.3 CSC405.4 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.4 CSC406.4	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Theoretical Computer Science           Apply SPA/DFA techniques for pattern matching           Apply specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages           Use computability, decidability, complexity classes for formal languages.           Apply Spa conterior transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply SD geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply SD geometric transformations, clipping algorithm on graphical objects, construct the curves, and derive the matrix for projection.           Analyze visible surface detection techniques, illumination models and fractals.
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.4 CSC406.4	Computer Organization and Architecture Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations. Analyze the data processing operations of central processing and compare RISC/CISC. Classify parameters of cache/virtual memory and implement memory mapping techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Database Management System Demonstrate data models and schemas in database management system Design ER/EER model for given case study and relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems Theoretical Computer Science Apply NFA/DFA techniques for pattern matching Analyze and design PDA, Deterministic Turing Machine for formal languages Use computability, decidability, undecidability, complexity classes for formal languages. Computer Graphics Apply S2D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, clipping algorithm on graphical objects, construct the curves, and derive the matrix for projection. Analyze visible surface detection techniques, illumination models and factals.
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.3 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4	Computer Organization and Architecture Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations. Analyze the data processing operations of central processing and compare RISC/CISC. Classify parameters of cache/virtual memory and implement memory mapping techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Database Management System Design ER/EER model for given case study and relational databases. Apply SQL queries for relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems Design ER/FER for the defined rules for syntax verification Apply SNA/DFA techniques for pattern matching Apply specified well defined rules for syntax verification Analyze and design PDA, Deterministic Turing Machine for formal languages Use computability, decidability, complexity classes for formal languages. Apply 2D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 2D geometric transformations, viewing and line/polygon clipping algorithms or graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms or graphical objects Apply 3D geometric transformations, viewing and line/polygon clipping algorithms or graphical objects Apply 3D
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.3 CSC404.3 CSC404.3 CSC405.1 CSC405.1 CSC405.2 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CPC501 CPC501.1	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Detabase Management System           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Design ER/EER model for given case study and relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Design ER/EER model for given case study and relational databases.           Use compare I/O Methods for pattern matching           Apply Specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages           Use computability, decidability, undecidability, complexity classes for formal languages.           Use computability, decidability, undecidability, complexity classes for formal languages.           Apply scan conversions algorithms to draw point, line, circle, ellipse and scan lin
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4 CPC501 CPC501.1 CPC501.2	Computer Organization and Architecture Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations. Analyze the data processing operations of central processing and compare RISC/CISC. Classify parameters of cache/virtual memory and implement memory mapping techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules and schemas in database management system Design ER/EER model for given case study and relational databases. Apply SQL queries for relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems Compare Science Apply NFA/DFA techniques for pattern matching Apply specified well defined rules for systax verification Analyze and design PDA, Deterministic Turing Machine for formal languages. Compare Graphics Apply scan conversions algorithms to draw point, line, circle, ellipse and scan line, flood fill, boundary fill algorithms to fill the polygon area. Apply 2D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, clipping algorithm on graph
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC404.1 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4 CPC501.1 CPC501.2 CPC501.2	Computer Organization and Architecture Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations. Analyze the data processing operations of central processing and compare RISC/CISC. Classify parameters of cache/virtual memory and implement memory mapping techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Database Management System Demonstrate data models and schemas in database management system Design ER/EER model for given case study and relational databases. Apply SQL queries for relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems Design ER/EAR model for given case study and query processing techniques in database systems Design ER/EAR model for given case study and relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems Design ER/EAR model for given case study and relational databases. Use normalization, transaction, concurrency and query processing techniques in database systems Design ER/EAR model for given case study and relational database. Use computer Science Apply NFA/DFA techniques for pattern matching Apply specified well defined rules for syntax verification Analyze and design PDA, Deterministic Turing Machine for formal languages. Use computability, decidability, undecidability, complexity classes for formal languages. Destor Computer Graphics Apply scan conversions algorithms to draw point, line, circle, ellipse and scan line, flood fill, boundary fill algorithms to fill the polygon area. Apply 2D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects Apply 3D geometric transformations, viewing and line/objects, construct the curves, and derive the matrix for projection. Analyze visible surface detection techniques, illumination models and fractals. Design 164 bits 4006 microprocessors. Write assembly and Mixed language programs for 8086 microproce
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC404.4 CSC404.1 CSC404.2 CSC404.3 CSC404.3 CSC404.3 CSC404.4 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CPC501 CPC501.1 CPC501.3 CPC501.3 CPC501.3 CSC405.4 CSC405.4 CSC405.2 CSC405.3 CSC405.4 CSC405.4 CSC405.3 CSC405.4 CSC501.4 CPC501.4 CPC501.4 CSC501.4	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management System           Demonstrate data model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrecy and query processing techniques in database systems           Theoretical Computer Science           Apply SQL queries for relational database.           Apply Systerified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages           Use computer Braphese           Computer Graphics           Apply scan conversions algorithms to draw point, line, circle, ellipse and scan line, flood fill, boundary fill algorithms to fill the polygon area.           Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects.           Apply 3D geometric transformations, viewing and line/polygon clipping algorithms ong raphical o
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.3 CSC404.3 CSC405.1 CSC405.2 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4 CPC501.1 CPC501.2 CPC501.4 CPC501.4	Computer Organization and Architecture Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations. Analyze the data processing operations of central processing and compare RISC/CISC. Classify parameters of cache/virtual memory and implement memory mapping techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 8089 IO processor and Classify data transfer techniques. Compare I/O modules, 9089 IO processor and tabase management system Design I/O modules, 1000 modules,
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.4 CSC404 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4 CSC406.4 CSC406.4 CSC406.1 CSC406.2 CSC406.1 CSC406.2 CSC406.1 CSC406.2 CSC406.1 CSC406.2 CSC406.1 CSC406.2 CSC406.1 CSC406.2 CSC406.1 CSC406.2 CSC406.1 CSC406.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC405.2 CSC405.1 CSC501.1 CPC501.1 CPC501.3 CPC501.4	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Theoretical Computer Science           Apply SQL queries for relational database.           Use normalization, transaction, concurrency and query processing techniques in database systems           Use normalization, transaction, concurrency and query processing techniques           Mayze and design PDA, Deterministic Turing Machine for formal languages           Use computer billy, decidability, complexity classes for formal languages.           Mapply SQL geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply SQL geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply SQL geometric transformations, clipping algorithm on graphical objects, construct the curves, and derive the matrix for projection
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC404.1 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.3 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.1 CSC406.3 CSC406.3 CSC406.4 CSC406.3 CSC406.4 CPC501.1 CPC501.2 CPC501.4 CPC502	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.         Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.         Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.         Database Management System           Demonstrate data models and schemas in database management system         Design ER/EER model for given case study and relational databases.           Apply SQL, queries for relational databases.         Use normalization, transaction, concurrency and query processing techniques in database systems           Use normalization, transaction, concurrency and query processing techniques in database systems         Nontrophysica           Apply SQL queries for relational databases.         Apply SQL externistics Turing Machine for formal languages           Use computability, decidability, complexity classes for formal languages.         Nontrophysica           Use computer Graphics         Apply SQL pometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply 3D geometric transformations, clipping algorithm or graphical objects, construct the curves, and derive the matrix for projection.           Apply 3D geometric transformations, clipping algorithm or graphical objects, construct the curves, and derive the matrix for proj
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC404.4 CSC404.1 CSC404.2 CSC404.3 CSC404.3 CSC404.3 CSC405.1 CSC405.2 CSC405.2 CSC405.2 CSC405.4 CSC406.1 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CPC501.2 CPC501.3 CPC501.4 CPC502 CPC502.1	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.         Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.         Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.         Database Management System           Design ER/EER model for given case study and relational databases.         Apply SQL queries for relational databases.           Apply SQL queries for relational databases.         Theoretical Computer Science           Apply NFA/DFA techniques for pattern matching         Apply specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages         Use computarity fill algorithms to fill the polygon area.           Apply SQL geometric transformations, viewing and line/polygon clipping algorithms on graphical objects         Apply 20 geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply 20 geometric transformations, viewing and line/polygon clipping algorithms on graphical objects         Apply solution techniques, illumination models and fractals.           Microprocessor         Microprocessor.         Analyze visible surface detection techniques, informorprocessor.           Design I6-bit 8086 microprocessor based system
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC404 CSC404 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4 CSC406.4 CPC501 CPC501.2 CPC501.3 CPC502 CPC502.1 CPC502	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL, queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Theoretical Computer Science           Apply SQL queries for pattern matching.           Apply specified well defined rules for syntax verification           Analyze and design PDA. Deterministic Turing Machine for formal languages.           Use computability, decidability, undecidability, complexity classes for formal languages.           Apply SQL poemetric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply SD geometric transformations, viewing and line/polygon clipping algorithms on graphical objects.           Apply SD geometric transformations, viewing and line/polygon clipping algorithms on graphical objects.           Apply
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC404.1 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405.1 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4 CSC406.3 CSC406.4 CSC406.4 CSC501.1 CPC501.2 CPC501.4 CPC502.1 CPC502.1 CPC502.2	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management system           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Theoretical Computer Science           Apply NFA/DFA techniques for pattern matching           Apply specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages.           Use computability, decidability, undecidability, complexity classes for formal languages.           Apply specified well defined rules for syntax verification           Analyze and onversions algorithms to draw point, line, circle, ellipse and scan line, flood fill, boundary fill algorithms to fill the polygon area.           Apply 2D geometric transformations, clipping algorithm on graphical objects.           Apply 2D geometric transformations, clipping algorithm on graphical objects.           Apply 2D geometric transformations, c
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC404.4 CSC404.1 CSC404.2 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405.2 CSC405.1 CSC405.2 CSC405.3 CSC405.4 CSC406.1 CSC406.1 CSC406.1 CSC406.3 CSC406.3 CSC406.4 CSC406.4 CSC501.1 CPC501.2 CPC501.3 CPC502.1 CPC502.1 CPC502.2 CPC502.3	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management System           Design ER/EER model for given case study and relational databases.           Apply SQL queries for prelational databases.           Apply SQL queries for pattern matching           Apply specified well defined rules for syntax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages           Use computability, decidability, undecidability, complexity classes for formal languages.           Apply Specified well defined rules for syntax verification           Analyze the same point, line, circle, ellipse and scan line, flood fill, boundary fill algorithms to fill the polygon area.           Apply 3D geometric transformations, viewing and line/polygon clipping algorithms on graphical objects           Apply 3D geometric transformations, lipping algorithm on graphicial objects.           A
CSC403 CSC403.1 CSC403.2 CSC403.3 CSC403.3 CSC403.4 CSC404.1 CSC404.2 CSC404.2 CSC404.3 CSC404.4 CSC405 CSC405.1 CSC405.2 CSC405.3 CSC405.3 CSC406.1 CSC406.1 CSC406.2 CSC406.3 CSC406.4 CSC406.4 CPC501 CPC501.1 CPC501.2 CPC501.3 CPC502.1 CPC502.1 CPC502.4 CP	Computer Organization and Architecture           Classify different levels in computer systems and apply arithmetic algorithms for solving ALU operations.           Analyze the data processing operations of central processing and compare RISC/CISC.           Classify parameters of cache/virtual memory and implement memory mapping techniques.           Compare I/O modules, 8089 IO processor and Classify data transfer techniques.           Demonstrate data models and schemas in database management System           Design ER/EER model for given case study and relational databases.           Apply SQL queries for relational databases.           Use normalization, transaction, concurrency and query processing techniques in database systems           Use normalization, transaction, concurrency and query processing techniques in database systems           Use normalization, transaction, concurrency and query processing techniques in database systems           Use computer Sign PDA, Deterministic Turing Machine for formal languages           Use computability, decidability, undecidability, complexity classes for formal languages.           Computer Graphics           Apply Specified well defined rules for symax verification           Analyze and design PDA, Deterministic Turing Machine for formal languages.           Lise computability, decidability, complexity classes for formal languages.           Apply Specified well defined rules for symax verification           Analyze visible surface detection techniques, and fine/poly

CPC503	Structured and Object Oriented Analysis and Design
CPC502 1	Structuret and Object Oriented Analysis and Design
CPC503.1	Use different process models for a given application
CPC503.2	Analyze the system requirements and compare traditional approach and object oriented approach.
CPC503.3	Design the system using Unified Modeling Language Tool.
CPC503.4	Build a system using architectural user interface and component lavel design techniques
CI 0505.4	Build a system using architectural, user interface and component level design techniques
CPC504	Computer Network
CPC504.1	Compare different topologies, terminology of computer networking area and types of transmission media.
CPC504.2	Analyze algorithms for error detection error correction multiple access control and identify. IP Addressing
CPC504.2	That ye agontants for the detection of the test of the set of the
CPC304.5	Analyze routing algorithms and congestion control algorithms
CPC504.4	Apply sliding Window technique for TCP Flow control and Use HTTP, SMTP, Telnet, FTP, DHCP ,SNMP protocol at application layer.
CPL501	Web Design Lab
CDI 501 1	
CPL501.1	Design web pages using appropriate H1ML tags and CSS properties.
CPL501.2	Develop web pages using JavaScript and XML.
CPL501.3	Use Kompozer web tool for creating web pages.
CPL501.4	Creating web pages using HTML and PHP server side scripting language
	Greating the pages using fifther and fifth server side server side server anguage
CDI 502	
CPL502	Business Communication And Ethics
CPL502.1	Develop the interpersonal skills to progress professionally by building stronger relationships
CPL502.2	Write a technical document using precise language, suitable vocabulary and ant style
CPI 502 3	A white the techniques to motifying the Group Discontinuous and any only and any other and the techniques of the second
CI L302.3	Apply the techniques to participate in Group Discussions, interviews and resume writing for sen recruitment.
CPL502.4	Display competence required for professional career growth
CPC601	System Programming and Compiler Construction
CPC601.1	by stellar is of the system are constructed in the system of the system
CI C001.1	Identify the system programs, appreadon programs and describe functioning of systems programs.
CPC601.2	Design the system programs biz assembler,macro-processor,linker and loader
CPC601.3	Design the modules/phases of Compiler.
CPC601.4	Use software tools LEX and YACC for lexical analyzing and parsing.
CDC(02	
CPC002	Software Engineering
CPC602.1	Select process models for software project development
CPC602.2	Prepare SRS, project plan and manage the change in a software project.
CPC602.3	Design develop & validate the quality software project
CPC(02.5	Design, develop, & vandae die quanty sonware project
CPC602.4	Design Web Applications using Software Engineering principles.
CPC603	Distributed Database
GPG (02.1	
CPC6031	Design Distributed detabase for enterprise applications
CPC603.1	Design Distributed database for enterprise applications.
CPC603.1 CPC603.2	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB
CPC603.1 CPC603.2 CPC603.3	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization
CPC603.1 CPC603.2 CPC603.3 CPC603.4	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration.
CPC603.1 CPC603.2 CPC603.3 CPC603.4	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration.
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CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration. Mobile Communication and Computing
CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604 CPC604.1	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration.  Mobile Communication and Computing Classify cellular, antenna and satellite systems of mobile communication.
CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604 CPC604.1 CPC604.2	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration.  Mobile Communication and Computing Classify cellular, antenna and satellite systems of mobile communication. Compare 3G/4G Systems and develop Android application
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CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604.1 CPC604.2 CPC604.3 CPC604.4	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration. Mobile Communication and Computing Classify cellular, antenna and satellite systems of mobile communication. Compare 3G/4G Systems and develop Android application Use mobile IP facilities for data communication over telecommunication network. Communicate data over wireless LAN and identify security issues in mobile computing.
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CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604.4 CPC604.2 CPC604.3 CPC604.4 CPE6012.1 CPE6012.2 CPE6012.2	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration.  Mobile Communication and Computing Classify cellular, antenna and satellite systems of mobile communication. Compare 3G/4G Systems and develop Android application Use mobile IP facilities for data communication over telecommunication network. Communicate data over wireless LAN and identify security issues in mobile computing.  Project Management Identify appropriate projects from various options and mention their selection criteria. Prepare Work Break Down Structure for a project and also prepare a schedule using GANTT chart, CPM, PERT
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CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604.1 CPC604.2 CPC604.2 CPC604.3 CPC604.4 CPE6012 CPE6012.1 CPE6012.1 CPE6012.2 CPE6012.3 CPE6012.4	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration. Mobile Communication and Computing Classify cellular, antenna and satellite systems of mobile communication. Compare 3G/4G Systems and develop Android application Use mobile IP facilities for data communication over telecommunication network. Communicate data over wireless LAN and identify security issues in mobile computing. Project Management Identify appropriate projects from various options and mention their selection criteria. Prepare Work Break Down Structure for a project and also prepare a schedule using GANTT chart, CPM, PERT Identify opportunities and threats to decide risk response strategy of a project. Apply Earned Value Management techniques to determine & predict status of the project and implement project termination process.
CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604.1 CPC604.2 CPC604.3 CPC604.3 CPC604.4 CPE6012.1 CPE6012.1 CPE6012.2 CPE6012.2 CPE6012.3 CPE6012.4	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration. Mobile Communication and Computing Classify cellular, antenna and satellite systems of mobile communication. Compare 3G/4G Systems and develop Android application Use mobile IP facilities for data communication over telecommunication network. Communicate data over wireless LAN and identify security issues in mobile computing. Project Management Identify appropriate projects from various options and mention their selection criteria. Prepare Work Break Down Structure for a project and also prepare a schedule using GANTT chart, CPM, PERT Identify opportunities and threats to decide risk response strategy of a project. Apply Earned Value Management techniques to determine & predict status of the project and implement project termination process.
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CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604.4 CPC604.2 CPC604.3 CPC604.4 CPE6012.1 CPE6012.1 CPE6012.2 CPE6012.3 CPE6012.4 CPE6013.1	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration.  Mobile Communication and Computing Classify cellular, antenna and satellite systems of mobile communication. Compare 3G/4G Systems and develop Android application Use mobile IP facilities for data communication over telecommunication network. Communicate data over wireless LAN and identify security issues in mobile computing.  Project Management Identify appropriate projects from various options and mention their selection criteria. Prepare Work Break Down Structure for a project and also prepare a schedule using GANTT chart, CPM, PERT Identify opportunities and threats to decide risk response strategy of a project. Apply Earned Value Management techniques to determine & predict status of the project and implement project termination process.  Foreigh Language-German Demonstrate German Language in holistic manner.
CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604.1 CPC604.2 CPC604.2 CPC604.3 CPC604.4 CPE6012.1 CPE6012.1 CPE6012.2 CPE6012.3 CPE6012.4 CPE6013.1 CPE6013.1 CPE6013.2	Design Distributed database for enterprise applications.         Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB         Analyze solutions for query processing and optimization         Provide solution for heterogeneous databases and use XML for schema integration.         Mobile Communication and Computing         Classify cellular, antenna and satellite systems of mobile communication.         Compare 3G/4G Systems and develop Android application         Use mobile IP facilities for data communication over telecommunication network.         Communicate data over wireless LAN and identify security issues in mobile computing.         Project Management         Identify appropriate projects from various options and mention their selection criteria.         Prepare Work Break Down Structure for a project and also prepare a schedule using GANTT chart, CPM, PERT         Identify opportunities and threats to decide risk response strategy of a project.         Apply Earned Value Management techniques to determine & predict status of the project and implement project termination process.         Foreigh Language-German         Demonstrate German Language in holistic manner.         Assemble and construct the sentences while reading the text, develop the skill of speaking of German Language.
CPC603.1 CPC603.2 CPC603.3 CPC603.4 CPC604.1 CPC604.2 CPC604.2 CPC604.3 CPC604.4 CPE6012 CPE6012.1 CPE6012.1 CPE6012.3 CPE6012.3 CPE6013.1 CPE6013.1 CPE6013.2 CPE6013.3	Design Distributed database for enterprise applications. Identify transaction ,concurrency control and use deadlock recovery management techniques in DDB Analyze solutions for query processing and optimization Provide solution for heterogeneous databases and use XML for schema integration.  Classify cellular, antenna and satellite systems of mobile communication. Compare 3G/4G Systems and develop Android application Use mobile IP facilities for data communication over telecommunication network. Communicate data over wireless LAN and identify security issues in mobile computing.  Project Management Identify appropriate projects from various options and mention their selection criteria. Prepare Work Break Down Structure for a project and also prepare a schedule using GANTT chart, CPM, PERT Identify opportunities and threats to decide risk response strategy of a project. Apply Earned Value Management techniques to determine & predict status of the project and implement project termination process. Foreigh Language-German Demonstrate German Language in holistic manner. Assemble and construct the sentences while reading the text, develop the skill of speaking of German Language. Examine the culture, dav-to-dav life of German family culture
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CPC702	Cryptography And System Security
CPC702.1	Use classical encryption techniques for data encryption.
CPC702.2	Evaluate the performance of firewall, SSL and recognize malicious code using firewall
CPC702.3	Apply the cryptographic checksum and message digest algorithms to check data integrity
CPC702.4	Apply FI GAMAL and Schnorr divital signature alconiting to achieve authentication and design secure applications
010702.1	rippy Elon in the and beauting and an again and the again and the automount and design secure appretiations
CPC703	Artificial Intelligence
CPC703 1	Artificial intelligence
CPC703.2	Analyze PEAS properties and use suitable interrigent agents for given Ar approximate a solution given problem.
CPC703.2	Choose and appropriate information of a longing and a longing methods.
CPC703.3	Appry rist Order Predicate logic for logical reasoning and planning problems.
CPC /05.4	Identify and Analyze NLP and Expert System AI Application
CDE5022	
CPE/023	Image Processing
CPE7023.1	Represent the image in jpeg, tiff, png,bmp and video in mpeg-4 format
CPE/023.2	Select spatial domain and frequency domain filtering techniques for image enhancement and perform segmentation.
CPE7023.3	Implement fast image transform flowgraph up to 16 point and perform Binary image processing Operations.
CPE/023.4	Apply image compression & decompression techniques
CDE7025	
CPE/025	Soft Computing
CPE7025.1	Apply supervised and Unsupervised learning algorithms on a given data set
CPE7025.2	Solve problems on fuzzy sets, fuzzy relations and fuzzy controllers.
CPE7025.3	Identify Neuro Fuzzy Inference System and Classify Derivative based & Derivative free optimization techniques.
CPE7025.4	Apply genetic model on a given data.
CPP701	During Y
CPP701.1	rupect-i Explore beyond the curriculum to identify problem of society, industrial or research needs: investigate the problem through in-denth literature survey and
CDD701.2	
CPP701.2 CPP701.3	Implement the methodology with modern tools and provide sustainable solution with effective utilization of the resources available.
CPP701.4	They are not compare the results with the standard results.
CPP701.5	Write and present their work effectively with ethical values.
CPP701.6	Engage themselves in area of their interest applying the knowledge gained and explore new technical trends.
CPL701	Network Threats and Attack Laboratory
CPL701.1	Use network based tools WHOIS, dig and nslookup for network analysis.
CPL701.2	Detect ARP spoofing using map and monitor network packets using wireshark packet sniffer tool
CPL/01.3	Use ARPWATCH and SNORT to simulate intrusion detection system
CFL/01.4	instali a rirewali and recognize mancrous code using rirewali.
CPC801	Data Warehousing And Mining
CPC801.1	Apply supervised and unsupervised mining algorithms for a given data set
CPC801.2	Analyze the given transactional data and apply appropriate techniques to identify interesting patterns.
CPC801.3	Design a data warehouse for a given application and perform OLAP operations to take business decisions.
CPC801.4	Apply pre-processing techniques for a given data set.
CPC802	Human Machine Interaction
CPC802.1	Identify the goal directed design guidelines of human centric interface.
CPC802.2	Apply human psychological knowledge of good interfacing in day-to-day activities for HMI.
CPC802.3	Modify existing interface designs and improve them using design principles.
CI C002.4	Design Human Machine Interaction for Social and technical tasks.
CPC803	Parallel And Distributed System
CPC803.1	Compare types of distributed system, model and apply RPC, RMI, Object based middleware technologies to develop distributed applications.
CPC803.2	Analyze techniques used for clock synchronization and mutual exclusion.
CPC803.3	Use Resource, Process management, Consistency and Replication Management to improve the performance of distributed system.
CPC803.4	Compare performance and reliability of distributed and parallel programs.
CPE8034	Digital Forensic
CPE8034.1	Classify cybercrimes and use incident response methodology to detect incident.
CPE8034.2	Analyze ,extract and classify digital evidences.
CPE8034.3	Investigate and recover evidence using Investigation/Hacker tools.
CPE8034.4	Apply laws of computer forensics for criminal cases.
CPE8031	Machine Learning
CPE8031.1	Identify and classify machine learning applications.
CPE8031.2	Apply decision tree algorithm Bayesian and regression techniques on a given data set
CPE8031.3	Apply linear/non-linear data separation, clustering and dimensionality reduction technique on a given data set.
CPE8031.4	Identify elements of reinforcement learning and classify model based learning with temporal difference.
CPP802	Project-II

CPP802.1	Explore beyond the curriculum to identify problem of society, industrial or research needs; investigate the problem through in-depth literature survey and
CPP802.2	Implement the methodology with modern tools and provide sustainable solution with effective utilization of the resources available.
CPP802.3	Analyze and compare the results with the standard results.
CPP802.4	Work as an individual and contribute as a team member with effective management skills to achieve a common objective.
CPP802.5	Write and present their work effectively with ethical values.
CPP802.6	Engage themselves in area of their interest applying the knowledge gained and explore new technical trends.
CPL801	Cloud Computing Lab
CPL801.1	Compare cloud computing services SaaS/PaaS/IaaS for a given application.
CPL801.2	Create and use virtual machine using open source technology.
CPL801.3	Demonstrate service models for SaaS, IaaS and PaaS using Open source technology.
CPL801.4	Use cloud computing software EC2 / Microsoft Azure for cloud application.