RVS COLLEGE OF ENGINEERING AND TECHNOLOGY
COIMBATORE – 641 402
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Regulation - 2013

Course ID	Semester	Course Code	Course Name		Course Outcomes
C101	I	HS6151	Technical English – I	CO1	Demonstrate clearly, confidently, understandably, and interact with one or more listeners using appropriate communicative techniques
				CO2	Cohesively and cogently and effortlessly designing grammatical errors, using a wide variety of phrases, organising their ideas logically on a subject
				CO3	Organize different genres of texts that adopt various learning techniques.
				CO4	Distinguish different spoken words and understand them Speeches/excerpts that have common accents
				CO5	Listen to numerous accents, presentations and emails.
C102	I	MA6151	Mathematics – I	CO1	Using the definitions of Eigen values and Eigen vectors, the canonical form is inferred from the quadratic form
				CO2	Verify the convergence of sequences and series..
				CO3	Use differential calculus methods to find the evaluation and envelope of curves.
				CO4	Using partial derivatives, describe the maxima and minima of functions of two variables.
				CO5	Using various integrals, find the area enclosed by plane curves and volume of solids
C103	I	PH6151	Engineering Physics-I	CO1	Identify the structures of the crystals and different techniques of crystal growth.
				CO2	Evaluate the elastic structure of materials and the materials' thermal behaviour.
				CO3	Using experience of quantum mechanics and classical mechanics to discuss science and technology concerns.
				CO4	Using the experience of building an auditorium with strong acoustic properties to allow use of ultrasonics and its applications in different fields..

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				CO5	Explain the benefits of optical contact using LASER.
C104	I	CY6151	Engineering Chemistry-I	CO1	Characterize the polymerization techniques, forms, properties and benefits of polymers.
				CO2	The principles of basic thermodynamics and problem solving skills in different engineering disciplines are demonstrated.
				CO3	Analyze the laws of photochemistry in the recognition of light's interaction with material and its luminescence and spectroscopy applications.
				CO4	Evaluate the use of the phase rule in the detection of its metallurgical and alloy applications.
				CO5	Analyze the fundamental knowledge of nanochemistry and differentiate nanotechnology from current technologies.
C105	I	GE6151	Computer Programming	CO1	Elucidate the digital computer organisation and develop the solution with algorithm, flowchart and pseudo code code for basic computing problems
				CO2	To solve basic scientific and statistical problems, apply the distinct looping structure.
				CO3	Plan the solutions using arrays and strings for simple problems
				CO4	Illustrate the need for the assignment of dynamic memory and pointer variables.
				CO5	Using a sample programs to demonstrate the notions of structure and union.
C106	I	GE6152	Engineering Graphics	CO1	Design and draw the conic sections, special curves, and Pictorial views and styles of orthographic views.
				CO2	Implement orthographic point projection rules to all quadrants, lines and planes in the first quadrant.
				CO3	Design and obtain the traces of plane figures from the projections of simple solids such as prisms, pyramids, cylinders and cones.
				CO4	Train and expand the lateral surfaces of sectional views of solids such as cubes, prisms, pyramids, cylinders & cones.
				CO5	Picture the projection of plain solids, truncated prisms, pyramids, cones and cylinders in perspective and sketch the isometric projection of simple components of the machine.
C107	I	GE6161	Computer Practices	CO1	Explain the use of software for office automation

			Laboratory	CO2	Use the required programming techniques for developing program.
				CO3	Plan and execute the basic application of the C program.
				CO4	Development and delivery of recursive programs.
				CO5	With the assistance of Structures and Union, implement the C program
C108	I	GE6162	Engineering Practices Laboratory	CO1	Electrical and electronic circuit design.
				CO2	Analyze various types of circuits and components for electronics.
				CO3	Recognize guidelines for electrical safety, grounding, general wiring for the building.
				CO4	Explore the art of soldering.
C109	I	GE6163	Physics and Chemistry Laboratory-I	CO1	The students' hands on experiments will assist them in applying the physical concepts of optics and thermal physics to determine the engineering properties of materials.
				CO2	Implement the chemical study of chloride and dissolved oxygen in quantitative terms.
				CO3	Determine the quantity of acids using the conductivity metre and pH metre method
C110	II	HS6251	Technical English-II	CO1	Talk convincingly, clearly articulate their thoughts, start a debate, compromise, use acceptable communicative techniques to argue.
				CO2	Write and create various styles of writing effectively and persuasively, such as narrative, explanation, exposition and argument, as well as artistic, critical, analytical and evaluative writing.
				CO3	Read various genres of texts, infer implied meanings and examine and evaluate them objectively for ideas as well as for presentation methods..
				CO4	Listen/view and objectively consider various spoken extracts and infer unspoken and inferred meanings..
				CO5	Efficient reading and writing for a range of technical and social settings
C111	II	MA6251	Mathematics - II	CO1	Bring vector calculus information to engineering Disciplines.
				CO2	Solve ordinary equations of differentials that model the

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					Technology questions.
				CO3	Using Laplace transform to find the Laplace transform of functions and solve the ordinary differential equations.
				CO4	Build analytical functions in engineering disciplines and apply the understanding of conformal mappings.
				CO5	Assess the integration of contours and apply them to engineering problems.
C112	II	PH6251	Engineering Physics – II	CO1	Categorize the materials of conducting and their properties.
				CO2	Semiconductor analysis and the ability to identify various types of semiconductors.
				CO3	Use magnetic knowledge and superconducting materials for modern day to day uses.
				CO4	Illustrate the properties of dielectrics and their applications.
				CO5	Consider the interpretation of modern engineering Materials for different uses.
C113	II	CY6251	Engineering Chemistry – II	CO1	Classify water technology in domestic and industrial water purification applications..
				CO2	Discuss the concept of electrochemistry, corrosion-related factors and corrosion prevention
				CO3	Describe the various renewable energy sources and the generation processes
				CO4	Elaborate the various kinds and uses of engineering materials.
				CO5	Analyze petroleum refining industrial techniques and the assessment of calorific values and combustion parameters.
C114	II	CS6201	Digital Principles and System Design	CO1	Study of various approaches used to simplify Boolean expressions
				CO2	Using methods of Boolean simplification to construct a Combinational hardware and HDL code writing circuit for Circuit loops.
				CO3	Creation and review of a given sequential synchronous circuit.
				CO4	Introduce an asynchronous architecture of a sequential circuit..
				CO5	Using PLD, design digital circuits
	II	CS6202	Programming and Data Structures I	CO1	Describe the idea of arrays and pointers in C language
				CO2	Demonstrate the procedure of handling files and heterogeneous data types using C programs.

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				CO3	Explain the operations of Abstract Data Type-Linked List with examples.
				CO4	Implement the operations of Abstract Data Types-Stack and Queue with examples.
				CO5	Explore different sorting, searching algorithms and hashing techniques.
C116	II	GE6262	Physics and Chemistry Laboratory - II	CO1	Capability to test materials by using their knowledge of applied physics principles in optics and properties of matter.
				CO2	Decide the hardness, alkalinity and metal ion content in the water samples by volumetric titration.
				CO3	Approximate the water quality parameters by potentiometer, conductometer and flame photometer.
C117	II	CS6211	Digital Laboratory	CO1	Relate Boolean simplification techniques to design a combinational hardware circuit
				CO2	Propose and apply combinational and sequential circuits
				CO3	Investigate a given digital circuit – combinational and sequential
				CO4	Propose the different functional units in a digital computer system
				CO5	Plan and apply a simple digital system.
C118	II	CS6212	Programming and Data Structures Laboratory I	CO1	Develop and implement C programs for implementing stacks, queues, and linked lists.
				CO2	Implement good programming design methods for programdevelopment.
				CO3	Implement the different data structures for implement solution to practical problems.
				CO4	Build applications for searching and sorting.
C201	III	MA6351	Transforms and Partial Differential Equations	CO1	Resolve Differential Partial Equations.
				CO2	Decide the extension of functions in the Fourier series and thus determine the importance of the infinite series.
				CO3	To solve the one-dimensional wave equation, one-dimensional heat equation and two-dimensional heat equation, apply the method of separation of variables.
				CO4	Consider the Fourier function transformation and also use Fourier transformation to test definite integrals
				CO5	Determine the Z-transform of discrete time systems and use Z-transform to solve the difference equations

				CO1	Discuss the basic principles of programming with object oriented programming
C202	III	CS6301	Programming and Data Structure II	CO2	For problem solutions, apply the principles of polymorphism, inheritance and virtual functions.
				CO3	By way of exception handling, explore the generic problem solution, standard libraries with necessary errors.
				CO4	Understand the use of various advanced nonlinear data structures - balanced trees for collection, heaps and height.
				CO5	In solving the problems of the real world, apply the non-linear data structure graph.
C203	III	CS6302	Database Management Systems	CO1	Explore the basic concepts of Computer Database Management
				CO2	Database development using query languages
				CO3	Understand the concept of managing transactions and controlling concurrency.
				CO4	Develop knowledge of internal storage structure and methods of indexing
				CO5	Connect databases with security principles.
C204	III	CS6303	Computer Architecture	CO1	Explain the "Microprocessor without Interlocked Pipeline Stages" (MIPS) architecture operations and instructions
				CO2	Floating Point Multiplication and Division Algorithms model arithmetic and logic units.
				CO3	Design the architecture of MIPS by building the pipeline data path and control path.
				CO4	Evaluate pipeline control units with Parallelism of Instruction Stage
				CO5	Categorize the performance of various systems for Memory and Input-Output.
C205	III	CS6304	Analog and Digital Communication	CO1	Build various analog communication techniques in all communication systems
				CO2	construct various digital communication techniques in all communication systems.
				CO3	For lighting applications, the use of data and pulse modulation techniques
				CO4	Develop Source and Error control coding in both wired and wireless communication systems.
				CO5	Application of multi-user messaging radio systems
C206	III	GE6351	Environmental Science and	CO1	Classify the importance of public awareness on environment and nature of biodiversity

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				Engineering	CO2	Explain the various causes, effect and control measures of environmental pollution.
					CO3	Design the human development that leads to environmental disasters, the value of natural resources and their conservation
					CO4	Elucidate the value of public participation in environmental protection, Environmental Management and Legislation Acts and sustainable development.
					CO5	Assess the problems related to population and their remedial measures
C207	III	CS6311	Programming and Data Structure Laboratory II		CO1	Compose C++ programs using the concepts of abstraction, encapsulation, constructor, polymorphism, overloading and inheritance for solving problems.
					CO2	Plan and apply C++ programs for manipulating stacks, queues, linked list, tress and graphs.
					CO3	Develop the different data structures for realizing solutions to practical problems.
					CO4	Construct recursive programs using trees and graphs.
C208	III	CS6312	Database Management Systems Laboratory		CO1	Construct and apply a database schema for a given problem domain.
					CO2	Generate and query a database.
					CO3	construct and retain tables using PL/SQL
					CO4	Execute the database triggers and functions
C209	IV	MA6453	Probability and Queueing Theory		CO1	Relate the knowledge of probability distributions to tackle real life problems, in particular, analyzing the performance of computer systems.
					CO2	Form and analyze two dimensional random variable problems.
					CO3	Describe phenomenon which evolve with respect to time in a probabilistic manner.
					CO4	Describe the Markovian queueing system
					CO5	Relate the knowledge of Non-Markovian queueing models and queueing networks in solving problems in computer science engineering.
C210	IV	CS6551	Computer Networks		CO1	Explain the Network fundamentals and terminology
					CO2	Distinguish the different internetworking devices and their functions
					CO3	Discover the network with routing and multicasting

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					CO4	Clarify the detailed inner workings of TCP/IP protocol suit.
					CO5	Examine the features and operations of various application layer protocols such as HTTP, DNS, and SMTP.
C211	IV	CS6401	Operating Systems		CO1	Classify the basic concepts, System call, structure and functions of Operating Systems.
					CO2	Propose the various Scheduling algorithms, Deadlock prevention, Deadlock avoidance algorithms and apply the principles of concurrency
					CO3	Exhibit the usage of various memory management schemes
					CO4	Summarize the concepts of Mass Storage Structure, File System Structure and I/O Systems.
					CO5	Apply administrative tasks on Linux servers.
C212	IV	CS6402	Design and Analysis of Algorithms		CO1	Explain the fundamentals of algorithmic problem solving and able to analyse recursive and non-recursive algorithms
					CO2	Plan algorithms for various computing problems using brute force and divide-and conquer technique
					CO3	Examine the time and space complexity of various algorithms using dynamic programming and greedy technique.
					CO4	Investigate the different algorithm design techniques for a given problem using iterative improvement
					CO5	Alter existing algorithms to improve efficiency.
C213	IV	EC6504	Microprocessor and Microcontroller		CO1	Plan and apply programs on 8086 microprocessor.
					CO2	Apply the system bus structure of 8086 and coprocessor
					CO3	Explain the I/O devices, peripherals and bus interfacing.
					CO4	Detailed the operation of 8051 microcontroller architecture andimplement ALP using 8051 instructions
					CO5	Propose and apply 8051 microcontroller based systems
C214	IV	CS6403	Software Engineering		CO1	Explain the purpose and facts of different software development process models with an insight into generic process framework.
					CO2	Classify the functional and non-functional requirements for software development by preparing IEEE Software Requirements Document.

				CO3	State software design activities using data flow diagrams and architectural diagrams.
				CO4	Generate a testing framework by understanding the purposes and stages of software testing and test-driven development.
				CO5	Elucidate the project management activities involved in developing a framework including planning, scheduling, risk assessment/management.
C215	IV	CS6411	Networks Laboratory	CO1	Explain the usage of socket programming and client server model.
				CO2	Employ the different protocols and network commands
				CO3	Plan and apply the application using TCP concepts
				CO4	Apply the algorithms with the help of Network Simulator
C216	IV	CS6412	Microprocessor and Microcontroller Laboratory	CO1	Create ALP Programs for fixed and Floating Point and Arithmetic.
				CO2	Similar I/O 8086 processor interface.
				CO3	Create waveforms using 8086 processors.
				CO4	Generate and accomplish ALP Programs in 8051
				CO5	Elucidate the difference between Simulator and Emulator
C217	IV	CS6413	Operating Systems Laboratory	CO1	Employ the basics of shell programming
				CO2	Utilizing system calls and enforce the programming in C.
				CO3	Relate the file system related system calls.
				CO4	Generate processes and implement IPC.
				CO5	Contrast the performance of various CPU Scheduling Algorithm, Implement deadlock avoidance, and Detection Algorithms
C301	V	MA6566	Discrete Mathematics	CO1	Illustrate the concepts needed to test the logic of a program
				CO2	Recognize the structures on many levels and be aware of the counting principles.
				CO3	Describe graph terminology and special types of graphs
				CO4	Demonstrate the concepts and properties of algebraic structures such as groups, rings and fields
				CO5	Elucidate the concepts of Lattices and Boolean algebra.

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				CO1	Execute Java programs.
C302	V	CS6501	Internet Programming	CO2	Generate a basic website using HTML and Cascading Style Sheets.
				CO3	Plan and apply client side programs using JavaScript and server side programs using Servlets and JSP
				CO4	Propose and execute simple web page in PHP, and to present data in XML format
				CO5	Propose rich client presentation using AJAX and implement web services
C303	V	CS6502	Object Oriented Analysis and Design	CO1	Employ the UML analysis and design diagrams.
				CO2	Define and use the design patterns for GRASP and the patterns for GoF Design.
				CO3	Evaluate and design use case modeling and domain modeling
				CO4	Relate appropriate design patterns
				CO5	Plan and apply projects using Object Oriented concepts and compare various testing techniques
C304	V	CS6503	Theory of Computation	CO1	Build a minimized finite automaton to recognize a given regular language.
				CO2	Explain formal relationships among machines, languages and grammars.
				CO3	Create the pushdown automata for all the context free language.
				CO4	Develop the basic properties of Turing Machines and Techniques for turing machine construction.
				CO5	Elucidate the decidability or Un-decidability of various problems
C305	V	CS6504	Computer Graphics	CO1	Explain the graphics hardware devices, software used and different drawing algorithms
				CO2	Implement two dimensional transformations and clipping techniques to graphical objects
				CO3	Plan three-dimensional graphical objects and apply three dimensional transformations into graphical objects.
				CO4	Elucidate the illumination and color models.
				CO5	Plan an animation sequences
C306	V	CS6511	Case Tools Laboratory	CO1	Plan and employ projects using Object Oriented concepts.
				CO2	Apply the UML analysis and design diagrams

				CO3	Implement appropriate design patterns
				CO4	Generate code from design
				CO5	Evaluate and compare various testing techniques.
C307	V	CS6512	Internet Programming Laboratory	CO1	Propose user interfaces using Java frames and applets.
				CO2	Develop Web pages using HTML/XML and style sheets.
				CO3	Design dynamic web pages using server side scripting and write client server applications
				CO4	Implement the frameworks like JSP Strut, Hibernate, Spring.
				CO5	Make applications with AJAX and web services
C308	V	CS6513	Computer Graphics Laboratory	CO1	Elucidate the basics of graphics programming
				CO2	Generate 2D animations
				CO3	Design image manipulation and enhancement.
				CO4	Generate 3D graphical scenes using open graphics library suits.
C309	VI	CS6601	Distributed Systems	CO1	Describe the trends and challenges in distributed system
				CO2	Build network virtualization, remote method invocation and objects.
				CO3	Exhibit peer-to-peer services and distributed file system.
				CO4	Examine the issues related to scalability, synchronization, transaction processing, concurrency and reliability in distributed system.
				CO5	Develop process and resource management systems
C310	VI	IT6601	Mobile Computing	CO1	Illustrate the basic concepts of mobile computing and MAC protocol.
				CO2	Select the required functionality at each layer for given application.
				CO3	Elucidate the basics of mobile telecommunication systems.
				CO4	Develop Ad hoc networks
				CO5	Design a mobile application
C311	VI	CS6660	Compiler Design	CO1	Formulate the basic concepts of compiler and its phases
				CO2	Execute the functionalities of lexical analysis phase like conversion of regular expression to DFA and minimization

					ofDFA.
				CO3	Plan the parsing table using different parsing techniques and different compiler construction tools
				CO4	Elucidate the translation process and run time environment issues.
				CO5	Relate the various optimization techniques for effectively generating machine code.
C312	VI	IT6502	Digital Signal Processing	CO1	Examine the properties of discrete time signal and properties of systems using Z-transform.
				CO2	Relate the concepts of frequency transformations like DFT, FFT and DCT in analysis of various signals and systems
				CO3	Develop Infinite Impulse response (IIR) digital filters
				CO4	Generate Finite Impulse response (FIR) digital filters.
				CO5	Analyse the finite Word length effects in digital filters.
C313	VI	CS6659	Artificial Intelligence	CO1	Recognize appropriate AI methods to solve a problem using search technique.
				CO2	Exhibit the knowledge in predicate and propositional logic and their roles in logic programming.
				CO3	Generate a given problem in the language / framework of different AI methods.
				CO4	Implement the machine learning techniques in solving the real world problems.
				CO5	Explain the idea of Knowledge Acquisition and Expert Systems
C314E1	VI	IT6004	Software Testing	CO1	Elucidate and interpret the basics of software testing and the generic testing process
				CO2	Design test cases suitable for various domains using multiple test case design strategies
				CO3	Understand the various levels of testing and identify the suitable tests to be carried out
				CO4	Organize the test plan, develop the test plan and validate the test plan
				CO5	Implement multiple automation tools for testing and assess the various testing metrics
C315	VI	CS6611	Mobile Application Development Laboratory	CO1	Clarify the architecture of mobile application development frameworks
				CO2	Decide the required architecture based upon the

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					mobile application to be developed
				CO3	Plan mobile applications using various layout and widgets
				CO4	Execute various mobile applications using emulators.
				CO5	Organize applications to hand-held devices
C316	VI	CS6612	Compiler Laboratory	CO1	Clarify and Use the compiler writing tools.
				CO2	Apply the different Phases of compiler using tools.
				CO3	Examine the control flow and data flow of a typical program
				CO4	Configure a given program.
				CO5	Make an assembly language program equivalent to a source language program
C317	VI	GE6674	Communication and Soft Skills - Laboratory Based	CO1	Classify and interpret graphics, interact, give presentations and engage in GD in formal and informal conversations.
				CO2	Describe higher-level reading comprehension passages, draught CV, cover letter, papers, emails, and blog posting.
				CO3	Distinguish between IELTS & TOEFL Placement-oriented assessments for verbal ability.
				CO4	Exhibit appropriate verbal, non-verbal and paralinguistic
C401	VII	CS6701	Cryptography and Network Security	CO1	Understand the basic concepts, OSI security architecture, finite fields and number theory.
				CO2	Evaluate the various Cryptographic techniques.
				CO3	Decide the usage of hash functions and digital signature
				CO4	Develop the various secure applications
				CO5	Introduce secure coding in the developed applications.
C402	VII	CS6702	Graph Theory and Applications	CO1	Generate precise and accurate mathematical definitions of objects in graph theory
				CO2	Employ mathematical definitions to identify and construct examples of spanning trees and planar graphs

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					CO3	Evaluate and critically assess a mathematical proof in graphs and digraphs.
					CO4	Implement the techniques of permutations and combinations and Binomial theorem for solving problems in Engineering
					CO5	Develop and solve generating functions, homogeneous and non- homogeneous recurrence relations.
C403	VII	CS6703	Grid and Cloud Computing		CO1	Explain the architecture of Grid and Cloud Computing
					CO2	Implement the knowledge to solve the large-scale problem in grid computing
					CO3	Describe the concepts of Virtualization
					CO4	Design the web services using the grid and cloud technologies.
					CO5	Implement security mechanism in grid and cloud computing
C404	VII	CS6704	Resource Management Techniques		CO1	Build the knowledge of linear programming problems in engineering disciplines
					CO2	Resolve LPP using dual simplex method, transportation and assignment problems
					CO3	Relate integer programming to solve real life problems
					CO4	Explain problems in classical optimization theory
					CO5	Employ PERT and CPM for problems in project management
C405E2	VII	IT6801	Service Oriented Architecture		CO1	Design a simple XML document coding and XML Schema.
					CO2	Generate an application based on XML and database.
					CO3	Contrast the characteristics and principles of Service oriented architecture with client server and distributed architecture.
					CO4	Explain the web services using WSDL, SOAP and UDDI.
					CO5	Construct a Service oriented architecture based applications for intra-enterprise and inter- enterprise applications using J2EE.

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				CO1	Clarify about the IR components and Web Search Engine Framework
C406E3	VII	CS6007	Information Retrieval	CO2	Understand various information retrieval models
				CO3	Enlighten the Web Search Engine architecture and optimization
				CO4	Discuss about Web Link Analysis algorithms and advanced search
				CO5	Exhibit document text mining techniques and clustering Algorithms
C407	VII	CS6711	Security Laboratory	CO1	Apply the cipher techniques
				CO2	Design the various security algorithms
				CO3	Select different open source tools for network security and analysis.
C408	VII	CS6712	Grid and Cloud Computing Laboratory	CO1	Design application using Globus toolkit
				CO2	Generate web services/application using Grid framework
				CO3	Execute Virtual machine and install software on it.
				CO4	Construct a private cloud using OpenStack / Open Nebula / Ecualyptus
				CO5	Describe applications using MapReduce approach in Hadoop environment
C409	VIII	CS6801	Multi – Core Architectures and Programming	CO1	Explain the parallel architecture and parallel programming model
				CO2	Examine the issues related to various challenges in parallel programming
				CO3	Expand parallel programming applications using openMP
				CO4	Plan and develop distributed programming application using openMPI
				CO5	Contrast and analyze the programming model for serial processor and parallel processor implementation
C410E4	VIII	CS6008	Human ComputerInteraction	CO1	Elucidate the basic foundations of Human Computer Interaction.
				CO2	Propose effective HCI for individuals and persons with disabilities
				CO3	Make simpler the issues in the HCI Models and assess the importance of user feedback

				CO4	State the Mobile HCI implications for designing multimedia/ ecommerce/ e-learning web sites
				CO5	Design the meaningful user interface.
C411	VIII	MG6088	Software Project Management	CO1	Clarify the need for Software Project Management and control
				CO2	Categorize the various activities of project scheduling and evaluation
				CO3	Sketch the risk assessment and management process
				CO4	Display different models of software process and network planning
				CO5	Review organizational behaviors and management
C412	VIII	CS6811	Project Work	CO1	Recognize technically and economically feasible problems of social relevance
				CO2	Map and make the project team with assigned responsibilities
				CO3	Recognize and survey the relevant literature for getting exposed to related solutions
				CO4	Examine, design and develop adaptable and reusable solutions of minimal complexity by using modern tools
				CO5	Execute and test solutions to trace against the user requirements

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