

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING****Course Outcomes Semester - 2018 - 2019****I SEMESTER**

S No	Course Name	CO NO	Course Outcomes
1	Programming for Problem Solving (ES107CS)	107.1	Formulate simple algorithms for arithmetic and logical problems; Translate the algorithms to programs in C Language.
		107.2	Test and execute the programs and correct syntax and logical errors
		107.3	Implement conditional branching, iteration and recursion.
		107.4	Decompose a problem into functions and synthesize a complete program using divide and conquer approach
		107.5	Construct by using arrays, pointers and structures to formulate algorithms and programs
		107.6	Apply programming to solve matrix problems and searching and sorting problems and numerical method problems and root finding of functions and simple integrations.
2	Programming for Problem Solving Lab (ES 155 CS)	155.1	Choose appropriate data type for implementing programs in C Language
		155.2	Design and implement modular program involving input output operations, decision making and looping constructs
		155.3	Implement search and sort operation on arrays and modularize the code with functions so that they can be reused.
		155.4	Apply the concept of pointers for implementing programs on dynamic memory management and string handling
		155.5	Design and implement programs to store data in structures and files
		155.6	Create, Read and Write to and from simple text and binary files
3	MATHS II	103.1	Find the rank of matrix, eigen values and eigen vectors. Canonical and Quadratic forms.
		103.2	Solve the ordinary differential equations of first and higher order and their physical and geometrical applications
		103.3	Solve problems of Legendre polynomials and Beta Gamma functions
		103.4	Classify the types of matrices, differential equations and special functions.
		103.5	Evaluate Laplace Transforms, Inverse Laplace Transforms of functions and their applications to ordinary differential equations.
		103.6	Prove relation between Beta Gamma functions and recurrence relation of special function

4	ENGLISH	102.1	Read, understand, interpret and comprehend a variety of written texts and develop positive attitude and commitment towards their (students') goal and society
		102.2	Remember and recognize the significance of vocabulary (roots and affixes, homonyms, one- word substitutes, etc.) and use language accurately for effective communication.
		102.3	Apply appropriate grammatical concepts (tenses, articles, prepositions, etc.) to spoken and written English in formal and informal ambience.
		102.4	Compile information of various aspects of English diction – Develop creativity in writing skills by framing paragraphs, essays, official letters, technical reports, etc
		102.5	Analyze different ways of life through reading prose and poetry, each symbolizing a particular virtue and the learners develop the ability to be creative.
		102.6	Apply appropriate grammatical structure and rules to spoken and written English in formal and informal ambience.
5	CHEMISTR Y	105.1	Apply concept of electrode potential in identifying feasibility of electrochemical reaction; illustrate electro analytical techniques and working of batteries.
		105.2	Identify the mechanism of corrosion of materials on basis of electrochemical approach and devise corrosion control methods.
		105.3	Estimate the physical & chemical parameters of quality of water and explain the process of water treatment.
		105.4	Explain the influence of chemical structure on properties of materials and their choice in engineering applications.
		105.5	Classify chemical fuels and grade them through qualitative analysis.
		105.6	Relate the concept of green chemistry to modify engineering processes and materials.



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Course Outcomes Semester - 2018 - 2019

II SEMESTER

S No	Course Name	CO NO	Course Outcomes
1	Programming for Problem Solving (ES107CS)	CO.1	Formulate simple algorithms for arithmetic and logical problems; Translate the algorithms to programs in C Language.
		CO.2	Test and execute the programs and correct syntax and logical errors
		CO.3	Implement conditional branching, iteration and recursion.
		CO.4	Decompose a problem into functions and synthesize a complete program using divide and conquer approach
		CO.5	Construct by using arrays, pointers and structures to formulate algorithms and programs
		CO.6	Apply programming to solve matrix problems and searching and sorting problems and numerical method problems and root finding of functions and simple integrations.
2	Programming for Problem Solving Lab (ES155CS)	CO.1	Choose appropriate data type for implementing programs in C Language
		CO.2	Design and implement modular program involving input output operations, decision making and looping constructs
		CO.3	Implement search and sort operation on arrays and modularize the code with functions so that they can be reused.
		CO.4	Apply the concept of pointers for implementing programs on dynamic memory management and string handling
		CO.5	Design and implement programs to store data in structures and files
		CO.6	Create, Read and Write to and from simple text and binary files



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III SEMESTER

S No	Course Name	CO NO	Course Outcomes
1	Engineering Mathematics (BS301MT)	BS301MT.1	Find solutions of first order and second order partial differential equations.
		BS301MT.2	Apply Fourier series to find solutions of partial differential equations.
		BS301MT.3	Solve complex and real integrals using residue theorem.
		BS301MT.4	Analyze a given function in the form of Fourier series
		BS301MT.5	Determine the analyticity of a complex functions and expand functions as Taylor and Laurent series.
		BS301MT.6	Classify types of partial differential equations and find their solution.
2	Basic Electronics (ES934EC)	ES934EC.1	Explain the basic knowledge on the working of various semi-conductor devices and there importance in the present electronics & about CRO applications
		ES934EC.2	Apply and develop analysis capability in BJT and FET Amplifier Circuits
		ES934EC.3	Built the circuit to produce pure DC signal using rectifier circuits & regulators
		ES934EC.4	Examine Operational Amplifier circuits as Summer, differentiator, integrator, inverting and non inverting amplifiers as ideal and practical & Feed back amplifiers
		ES934EC.5	Evaluate Boolean laws and theorems. State and explain the different logic gates using truth table. Analyze and design different adder circuits.
		ES934EC.6	ANALYZE the circuit to produce pure AC signal using oscillators, and produce sinusoidal oscillations with different frequencies using oscillator circuits & Study of Thristors devices .
3	Data Structures (PC301CS)	PC301CS.1	Apply the notations used to analyze the performance of algorithms
		PC301CS.2	Describe various data structures like Stacks, Queues, Linked lists, Trees and Graphs are represented in memory and used by algorithms
		PC301CS.3	Write programs that use various data structures like Stacks, Queues, Linked lists, Trees , Graphs and sortings .
		PC301CS.4	Compare and contrast the time complexities of various searching and sorting algorithms.
		PC301CS.5	Design and implement an appropriate hashing function for an application and skip list
		PC301CS.6	Apply tree and graph traversal methods in real time applications.

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4	Discrete Mathematics (PC302CS)	PC302CS.1	Apply the skill of logical notation to define and reason about fundamental mathematical concepts such as sets, relations, functions, and integers.
		PC302CS.2	Able to produce convincing arguments, analyze basic mathematical proofs and discriminate between valid and unreliable arguments.
		PC302CS.3	Able to model and solve real-world problems using graphs and trees, both quantitatively and qualitatively.
		PC302CS.4	Able to formulate problems and solve the recurrence relations and to find asymptotic growth rates of different functions.
		PC302CS.5	Model and solve the real world problems using Generating Functions and Recurrence Relations.
		PC302CS.6	Understand general properties of Algebraic systems and study lattices as partially ordered sets and their applications
5	Logic and Switching Theory (PC303CS)	PC303CS.1	Understand switching algebra theorems , logic functions , logic gates and their properties.
		PC303CS.2	Identify the importance of SOP and POS canonical forms in the minimization or other optimization of Boolean formulas in general and digital circuits.
		PC303CS.3	Evaluate functions using various types of minimizing algorithms like Boolean algebra, Karnaugh map or tabulation method
		PC303CS.4	Analyze the design procedures of Combinational logic circuits.
		PC303CS.5	Understand bi-stable elements and different types of latches and flip-flops.
		PC303CS.6	Analyze the design procedures of small sequential circuits and devices and to use standard sequential functions /building blocks to build larger more complex circuits and the design of a finite state machine, asm charts...
6	Environmental Science (MC916CE)	MC916CE.1	Synthesize popular media reports/articles discussing environmental issues, and verbally discuss and defend their positions on scientific issues
		MC916CE.2	Able to list common and adverse human impacts on biotic communities, soil, water, and air quality and suggest sustainable strategies to mitigate these impacts
		MC916CE.3	Apply mathematical concepts, including statistical methods, to field and laboratory data to study scientific phenomena.
		MC916CE.4	Design and execute a scientific project.
		MC916CE.5	Understand the importance of Environmental legislation policies
		MC916CE.6	Categorize the types of environmental pollution and the various treatment technologies for the diminution of environmental pollutants and contaminants.

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9	Data Structures Lab (PC351CS)	PC351CS.1	Analyze various data structures such as Stacks, Queues, Linked list and Trees
		PC351CS.2	Implement the applications of Stack
		PC351CS.3	Explain various types of priority queues and graphs
		PC351CS.4	Implement the applications of graphs Traversals
		PC351CS.5	Implement the various sorting techniques
		PC351CS.6	Implement the various searching techniques



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IV SEMESTER

S No	Course Name	CO NO	Course Outcomes
1	Mathematics and Statistics (BS 421 MT)	BS421MT.1	To Find the rank of matrix, eigen values and eigen vectors. Canonical and Quadratic forms.
		BS421MT.2	To Solve the ordinary differential equations of first and higher order and their physical and geometrical applications
		BS421MT.3	To Solve problems of Legendre polynomials and Beta Gamma functions and their relation
		BS421MT.4	To Classify the types of matrices, differential equations and special functions.
		BS421MT.5	To Evaluate Laplace Transforms, Inverse Laplace Transforms of functions and their applications to ordinary differential equations.
		BS421MT.6	To Prove relation between Beta Gamma functions and recurrence relation of special function
3	Computer Organization (PC 401 CS)	PC401CS.1	Able to understand the Instruction Set Architecture: Instruction format, types, various addressing modes
		PC401CS.2	Able to understand the basic components and design of the CPU: the ALU and control unit write multi threaded programs with synchronization
		PC401CS.3	Understand and analyze various issues related to memory hierarchy
		PC401CS.4	Evaluate various modes of data transfer between CPU and I/O devices.
		PC401CS.5	Able to understand the parallelism both in terms of a single processor and multiple processors
		PC401CS.6	Able to understand the I/O Organization, Interrupt-driven I/O, DMA
4	Object Oriented Programming Using Java (PC 402 CS)	PC402CS.1	Apply object oriented principles in s/w development process
		PC402CS.2	Apply java program for real applications using java construct and libraries.
		PC402CS.3	Understand and apply various object oriented features like class, object, data abstraction, encapsulation, inheritance, polymorphism to solve various computing problems using java language
		PC402CS.4	Implement exception handling in java
		PC402CS.5	Use graphical user interface and event handling in java
		PC402CS.6	Develop and deploy AWT, Swings in java

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5	Programming Languages (PC403CS)	PC403CS.1	Explain ability to express syntax and semantics in formal notation.
		PC403CS.2	Apply ability to apply suitable programming paradigm for the application.
		PC403CS.3	Make use of identify and describe semantic issues associated with variable binding, scoping rules, parameter passing, and exception handling.
		PC403CS.4	Examine the gain knowledge and comparison of the features programming languages.
		PC403CS.5	Evaluate their relative benefits for program in different language paradigms
		PC403CS.6	Design issues of object-oriented and functional languages.
6	Microprocessors and Interfacing (PC 404 CS)	PC404CS.1	Able to understand the architecture and organization of microprocessor.
		PC404CS.2	Build programs in assembly language.
		PC404CS.3	Able to understand communication and bus interfacing
		PC404CS.4	Able to understand software/hardware interfacing and system connections
		PC404CS.5	Able to understand the significance of Interrupts in 8085 and 8086
		PC404CS.6	Able to understand the usage of macros
7	Java Programming Lab (PC 451 CS)	PC451CS.1	Able to understand the use of OOPs concepts.
		PC451CS.2	Able to solve real world problems using OOP techniques and able to understand the use of abstraction.
		PC451CS.3	Able to understand the use of Packages and Interface in java
		PC451CS.4	Able to develop and understand exception handling, multithreaded applications with synchronization.
		PC451CS.5	Able to understand the use of Collection Framework.
		PC451CS.6	Able to design GUI based applications and develop applets for web applications.
8	Microprocessors Lab (PC 452 CS)	PC452CS.1	Understand working of 8085 processor architecture, addressing modes.
		PC452CS.2	Build assembly language program using 8085 instruction set
		PC452CS.3	Understand working of 8086 processor architecture, addressing modes
		PC452CS.4	Build assembly language program using 8086 instruction set
		PC452CS.5	Distinguish between the different modules of operation of microprocessors
		PC452CS.6	Develop complex applications using Assembly language programming methods

S No	Course Name	CO NO	Course Outcomes
9	Mini Projects (PC454CS)	PC454CS.1	Choose a problem in recent advancements with applications towards society.
		PC454CS.2	Formulate requirement analysis for solving a problem.
		PC454CS.3	Design a software based solution within the scope of project.
		PC454CS.4	Utilize contemporary technologies and tools.
		PC454CS.5	Test and deploy the applications on real world environments.
		PC454CS.6	Demonstrate qualities necessary for working in a team and communicate effectively in both written and oral forms.



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V SEMESTER

S No	Course Name	CO NO	Course Outcomes
1	Database Management Systems (PC 501 CS)	PC501CS.1	Understand the mathematical foundations on which RDBMS are built
		PC501CS.2	Model a set of requirements using the Extended Entity Relationship Model (EER), transform an EER model into a relational model ,and refine the relational model using theory of Normalization
		PC501CS.3	Develop Database application using SQL and Embedded SQL
		PC501CS.4	Use the knowledge of file organization and indexing to improve database application performance
		PC501CS.5	Understand the working of concurrency control and recovery mechanisms in RDBMS
		PC501CS.6	Understand the concepts of procedures,functions,triggers,exceptions,packages
3	Automata, Languages & Computation (PC 503 CS)	C503.1	Explain the basic concepts of finite automata and regular expressions
		C503.2	Describe the types of grammar and derivation tree.
		C503.3	Test the equivalence of pushdown automata and CFL.
		C503.4	Develop a computational model using Turing machine for the given problem
		C503.5	Use Chomsky hierarchy to solve given problems
		C503.6	Examine the complexity for P and NP completeness for the given problem
4	Operating Systems (PC 504 CS)	PC504CS.1	Explain the concepts of OS structure and process synchronization.
		PC504CS.2	Evaluate and design different process scheduling algorithms.
		PC504CS.3	Identify the rationale behind various memory management techniques along with issues and challenges of main memory, virtual memory.
		PC504CS.4	Compare different file allocation methods and decide appropriate allocation strategies for given type of file.
		PC504CS.5	Explain the mechanisms available in OS to control access to resource and provide system security.
		PC504CS.6	Compare the features of Linux and Windows7 Operating system.

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5	Computer Graphics (PC 505 CS)	PC505CS.1	Define the steps in graphics programming pipe line
		PC505CS.2	Make use of interactive graphics applications using OpenGL to draw geometric primitives
		PC505CS.3	Apply affine transformations for viewing and projections
		PC505CS.4	Create realistic images of 3-d objects that involve lighting shading aspects and various animation sequence
		PC505CS.5	Explain basic illumination and colour models
		PC505CS.6	Demonstrate the mathematical principles to represent curves and surfaces
6	Managerial Economics and Accountancy (HS 901 MB)	HS901MB.1	The student will illustrate about the business, economic, cultural and social environment and the structural aspects of Managerial Economics.
		HS901MB.2	Construct and analyze the financial statements of the business and interpret them for taking ideal
		HS901MB.3	After analytically studied about different principles and laws of managerial economics he will be able to examine the consumer behavior and take various managerial decisions, such as forecasting demand for new and existing goods and services and also suggest the best profit maximizing production function to the producers/entrepreneurs
		HS901MB.4	The student will apprise the firms behaviour in different market structures with respective to competition, price fixation of products.
		HS901MB.5	With the knowledge of capital budgeting methods and techniques, the student can evaluate different business proposals and identify the best among them for prudent investment.
		HS901MB.6	Discuss the process & principles of accounting and prepare Journal, Ledger, Trial Balance, Manufacturing A/c, Trading A/c., Profit & Loss A/c. and Balance Sheet of an enterprise.
7	Artificial Intelligence (PC 502 CS)	PE502CS.1	Identify problems that are amenable to solution by AI method
		PE502CS.2	Formulate some single player or two player games using state space search graphs and apply search algorithms like A* to solve path finding algorithms.
		PE502CS.3	Explain natural language/English using Propositional logic, Predicate Logic and use resolution to infer/ prove conclusions.
		PE502CS.4	Apply planning on logic to Build a Bayesian network and reason from it.
		PE502CS.5	Apply supervised learning methods like decision tree, naïve bayes, and neural networks to observe the performance of small applications.
		PE502CS.6	Develop a Natural language processing system. Represent and infer using fuzzy logic.

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8	Database Management Systems Lab (PC 551 CS)	PC551CS.1	Design and implement a database schema for a given problem
		PC551CS.2	Populate and query a database using SQL and PL/SQL
		PC551CS.3	Develop multi-user database application using locks
		PC551CS.4	Develop the procedures, functions, triggers
		PC551CS.5	Develop exceptions,cursors
		PC551CS.6	Develop packages
9	Operating Systems Lab(PC 552 CS)	PC552CS.1	Experiment with basic Linux shell commands
		PC552CS.2	Analyze the performance of the various Memory management algorithms and develop various memory management schemes
		PC552CS.3	Interpret the benefits of thread over process and Build synchronized programs using multithreading concepts.
		PC552CS.4	Compare various CPU Scheduling Algorithms like FCFS, Round Robin, SJF, and Priority and develop programs for all the algorithms
		PC552CS.5	Understand the concept of process synchronization and create programs like Dining Philosophers problem.
		PC552CS.6	Understand the basics of shell scripting and develop shell scripts for simple system administration tasks
10	Computer Graphics Lab(PC 553 CS)	PC553CS.1	Build interactive graphics applications using OpenGL geometric primitives
		PC553CS.2	Implement basic transformations on objects using OpenGL
		PC553CS.3	Build different views using projections
		PC553CS.4	Create realistic images of 3-d objects with light sources and shading
		PC553CS.5	Build walkthrough programs using OpenGL
		PC553CS.6	Understand the concept of Bezier and Bspline curve and build the programs for curves
11	Gender Sensitisation (HS901EG)	HS901EG.1	Develop a better understanding of important issues related to gender in contemporary India.
		HS901EG.2	To change the basic dimensions of the biological, sociological, psychological and legal aspects of gender through discussions, facts, everyday life, literature and film.
		HS901EG.3	To analyze how gender discrimination works in our society and how to counter it.
		HS901EG.4	To identify and plan better ways of working and living together as equals.
		HS901EG.5	To develop a sense of appreciation of women in all walks of life
		HS901EG.6	To enable in developing good interpersonal relationships at work places and to develop a sustain interest in gender equality



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VI SEMESTER

S No	Course Name	CO NO	Course Outcomes
1	Design and Analysis of Algorithms (PC601CS)	PC601CS.1	Students will be able to Analyze a given algorithm and express its time and space complexities in asymptotic notations.
		PC601CS.2	Model and solve the real world problems using Generating Functions and Recurrence Relations.
		PC601CS.3	Students will be able to Design algorithms using Divide and Conquer Strategy.
		PC601CS.4	Students will be able to Compare Dynamic Programming and Divide and Conquer Strategies.
		PC601CS.5	Students will be able to Solve Optimization problems using Greedy strategy.
		PC601CS.6	Students will be able to Design efficient algorithms using Back Tracking and Branch Bound Techniques for solving problems and Classify computational problems into P, NP, NP-Hard and NP-complete.
2	Software Engineering (PC602CS)	PC602CS.1	Relate an appropriate process model for assessing software project development .
		PC602CS.2	Build necessary requirements for project development eventually composing SRS
		PC602CS.3	Analyze various life cycle activities like Analysis, Design, Implementation, Testing and Maintenance.
		PC602CS.4	Survey visual models to describe (non-) algorithmic solutions for project build out.
		PC602CS.5	Choose solutions for recurring problems development exerting knowledge on design principles and patterns.
		PC602CS.6	Determine product quality through testing techniques, employing appropriate metrics.

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3	Web Programming (PC603CS)	PC603CS.1	Design a basic web site using HTML5 and CSS3 to demonstrate responsive web design
		PC603CS.2	Describe XML structure using DTD, schemas and apply XSLT.
		PC603CS.3	Design dynamic web pages with server validation using Scripting(JS,PHP AJAX & Python)
		PC603CS.4	Understand server side programming using Servlet, JSP capable of handling sessions.
		PC603CS.5	Design a web application with backend database connectivity
		PC603CS.6	Create simple web application using server side PHP programming and Database Connectivity using MySQL
4	Computer Networks & Programming (PC604CS)	PC604CS.1	Understand basic computer network technology.
		PC604CS.2	Demonstrate the layers of the OSI model, TCP/IP and their function(s).
		PC604CS.3	Choose the different types of network topologies and protocols.
		PC604CS.4	Identify the shortest path in a given network.
		PC604CS.5	Inspect different routing and congestion control algorithms
		PC604CS.6	Interpret the skills of sub-netting and routing mechanisms and socket programming.
6	Advanced Databases (PE603CS)	PE603CS.1	Describe the features added to object-relational systems to distinguish them from standard relational systems.
		PE603CS.2	Model a relational/semi-structured database using XML Schema.
		PE603CS.3	Understand different algorithms used in implementation of query evaluation engine.
		PE603CS.4	Measure query costs and design alternate efficient paths for query execution.
		PE603CS.5	Understand and Analyze the different concurrency control and commit protocols in distributed databases.
		PE603CS.6	Demonstrate an understanding of the role and the concepts involved in special purpose databases such as Temporal, Spatial, Mobile and other similar database types.

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7	Disaster Management (OE601CE)	OE601CE.1	Analyze the different public health aspects of disaster events at local and global levels, even when limited information is available.
		OE601CE.2	Evaluate the environmental, social, cultural, economical, legal and organizational aspects influencing vulnerabilities and capacities to face disasters and to know different types of environmental hazards
		OE601CE.3	Examine different types of natural and man- made disasters, theoretically and practically in the processes of disaster management and relate their interconnections. (Analyze)
		OE601CE.4	Interpret endogenous and exogenous hazards and their harmful effects to the environment through case studies in India.
		OE601CE.5	Organize strategies for mitigation in future scenarios with available risk reduction techniques.
		OE601CE.6	Demonstrate different aspects of the emergencies and disaster events into the potential and limitations of science and its role in society and people's responsibility for how it is used.
8	Software Engineering Lab (PC651CS)	PC651CS.1	Interpret a variety of approaches and perspectives of system development.
		PC651CS.2	Identify the requirements which are relevant to the design of a system.
		PC651CS.3	Model software design with a set of objects and their relationships using structural modeling.
		PC651CS.4	Take part in using advanced & behavioral modeling to develop a case study.
		PC651CS.5	Design the activities with the help of behavioral modeling.
		PC651CS.6	Develop components through architectural modeling.
9	Web Programing Lab (PC652CS)	PC652CS.1	Design a basic web site using HTML5 and CSS3 to demonstrate responsive web design
		PC652CS.2	Describe XML structure using DTD, schemas and apply XSLT.
		PC652CS.3	Create dynamic web pages using server side scripting
		PC652CS.4	Design a web page to perform session handling and client validations
		PC652CS.5	Develop a web application with backend database connectivity
		PC652CS.6	Create simple web application using server side PHP programming and Database Connectivity using MySQL

S No	Course Name	CO NO	Course Outcomes
10	Computer Networks & Programming Lab (PC653CS)	PC653CS.1	Examine different IPC techniques.
		PC653CS.2	Develop concurrent client-server applications using TCP and UDP.
		PC653CS.3	Develop iterative client-server applications using TCP and UDP.
		PC653CS.4	Analyze communication path established.
		PC653CS.5	Inspect the reachability to a destination in the network.
		PC653CS.6	Build application which maps names to IP addresses(DNS).



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IV-I SEMESTER

S No	Course Name	CO NO	Course Outcomes
1	Distributed Systems (CS401)	CS 401.1	Find solutions for issues in architectures by applying the concepts of distributed systems
		CS 401.2	Illustrate client/server, p2p algorithms, RPC and RMI communication methodologies
		CS 401.3	Understand synchronization among processes through various coordination algorithms
		CS 401.4	Apply distributed transaction control algorithms for optimistic concurrency control along with fault tolerance recovery mechanisms
		CS 401.5	Differentiate client and data centric consistency models in a Distributed System.
		CS 401.6	Interpret the knowledge over shared memory and file systems in distributed environment.
2	Artificial Intelligence (CS402)	CS 402.1	Understand the concept of Agents that plan, Algorithm A*, Heuristic Functions .
		CS 402.2	Develop the procedures of Predicate Calculus, Resolution in Predicate Calculus, Rule-Based Expert Systems.
		CS 402.3	Identify problems where artificial intelligence techniques are applicable by using probability theory, & Bayes Networks.
		CS 402.4	Apply selected basic AI techniques ,Judge applicability more advanced techniquesusing nueral networks.
		CS 402.5	prioritize from the design of system that act intelligently and learn from experience
		CS 402.6	Analyze the performance of the various concepts of Fuzzy Logic Systems
4	Principles & Applications of Embedded Systems (CS 404)	CS 404.1	Understand the embedded system design process and design example
		CS 404.2	Apply the programming techniques in developing the assembly language program for microcontroller application
		CS 404.3	Understand Real-Time Operating Systems and apply basic design using a Real-Time Operating System
		CS 404.4	Apply the programming techniques in developing the Real-Time Operating System concepts like scheduling, intertask communication..
		CS 404.5	Understand the embedded Software development tools and apply knowledge of tools by use of a PC based Microcontrollers simulator.
		CS 404.6	Understand various debugging techniques and design embedded system.

S No	Course Name	CO NO	Course Outcomes
5	Software Project Management (CS 411)	CS411.1	Understand the old and new ways of the state of practices in the software industry and remember the software project management activities.
		CS411.2	Analyze the milestones in the life-cycle of the project, remember the artifacts and understand the strategic importance of check points of the process
		CS411.3	Select and use project management frameworks that ensures successful outcomes.
		CS411.4	Apply appropriate techniques for software economics to real world problems
		CS411.5	Identify the social, professional, cultural, and ethical issues involved in the use of technology
		CS411.6	Develop software projects based on current technologies, by managing resources economically and keeping ethical values
6	Mobile Computing (CS 416)	CS416.1	explain the principles and theories of mobile computing technologies.
		CS416.2	describe infrastructures and technologies of mobile computing technologies
		CS416.3	list applications in different domains that mobile computing offers to the public employees and businesses
		CS416.4	effectively communicate course work through written and oral presentations
		CS416.5	Demonstrate basic skills for cellular networks design.
		CS416.6	Apply knowledge of TCP/IP extensions for mobile and wireless networking
7	Distributed Systems Lab (CS 431)	CS431.1	Build the FTP Protocol.
		CS431.2	Develop DNS application with large multiple Clients.
		CS431.3	Develop Message Exchange Application.
		CS431.4	Explore the working procedure of threads with Chat Application.
		CS431.5	Understand the Concept of Transactions.
		CS431.6	Develop NFS Application.
8	Embedded Systems Lab (CS432)	CS432.1	Develop basic programs using ARM7 processor
		CS432.2	Develo ALP using the capabilities of the stack, the program counter, and the status register and show how these are used to execute a machine code program
		CS432.3	Use Interfacing ESA Board MC89C51ED2 to interface Input-Output and develop control applications such as traffic controller.
		CS432.4	Explain the porting of Real Time applications on to target machines using RTOS.
		CS432.5	Understand the concepts of Real Time Operating Systems, and write program using Keil
		CS432.6	Design simple applications using 8051 Micro controller.
9	Project Seminar (CS 433)	CS433.1	Choose a problem in recent advancements with applications towards society
		CS433.2	Formulate requirement analysis for solving a problem.
		CS433.3	Design a software based solution within the scope of project.
		CS433.4	Utilize contemporary technologies and tools.
		CS433.5	Test and deploy the applications on real world environments.
		CS433.6	Demonstrate qualities necessary for working in a team and communicate effectively in both written and oral forms.

(Apply-L-3)

ess (Analyse-l-4

(Understand L-2)

(Apply -L-3)

4)



METHODIST
COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad
Estd : 2008 Address : King Koti Road, Abids, Hyderabad, Telangana, 500001 | Email : principal@methodist.edu.in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Outcomes Semester - 2018 - 2019

IV-II SEMESTER

S No	Course Name	CO NO	Course Outcomes
1	Data Mining (CS 451)	CS451.1	Evaluate and implement a wide range of emerging and newly-adopted methodologies and technologies to facilitate the knowledge discovery.
		CS451.2	Assess raw input data, and process it to provide suitable input for a range of data mining algorithms.
		CS451.3	Describe and measure interesting patterns from different kinds of databases.
		CS451.4	Characterize and discriminate data summarization forms and determine data mining functionalities.
		CS451.5	Evaluate and select appropriate data-mining algorithms and apply, and interpret and report the output appropriately.
		CS451.6	Design and implement of a data-mining application using sample, realistic data sets and modern tools.
2	Software Quality and Testing (CS 463)	CS 463.1	Define Software Quality Assurance Framework and Standards.
		CS 463.2	Outline various Metrics, Methodologies for Measuring SQA.
		CS 463.3	Classify the Software Testing Strategy and Associate it with the Test Environment.
		CS 463.4	Select a Specific Testing Technique and Tool for Software Development.
		CS 463.5	Apply the Test Process on various Software Domains.
		CS 463.6	Inspecting different automated testing tools.
3	Cloud Computing (CS 476)	CS476.1	Explain the key dimensions of the challenge of Cloud Computing.
		CS476.2	Apply Assess cloud Storage systems and Cloud Security, the Risks involved, its impact and develop cloud application. Broadly educate to know the impact of engineering on legal and societal issues involved in addressing the security issues of cloud computing.
		CS476.3	Make use of suitable Virtualization concept, Cloud Resource Management and design scheduling algorithms.
		CS476.4	Examine the Cloud computing setup with its vulnerabilities and applications using different architectures.
		CS476.5	Evaluate Assessment of economics, financial, and technological implications for selecting cloud computing for own organization.
		CS476.6	Design different workflows according to requirements and apply map reduce programming model. Create combinatorial auctions for cloud resources and design scheduling algorithms for

S No	Course Name	CO NO	Course Outcomes
4	Disaster Mitigation and Management (CE 452)	CE452.1	Attain knowledge on various types, stages, phases in disaster with international & national policies & programmes with reference to the disaster reduction
		CE452.2	Understand various types of natural disaster, their occurrence, Effects, Mitigation and Management Systems in India
		CE452.3	Understand different types of manmade disasters, their occurrence, Effects, Mitigation and Management Systems in India
		CE452.4	Explain the utility of geographic information systems (GIS), Remote sensing technology in all phases of disaster mitigation and management
		CE452.5	Understand on the concepts of risk, vulnerability, warning and forecasting methods in disaster management
		CE452.6	Understand the role of education and training in disaster prevention.
5	Data Mining Lab (CS 481)	CS481.1	Apply data preprocessing techniques.
		CS481.2	Apply Frequent Item-set Mining methods to generate association rules.
		CS481.3	Identify and perform appropriate classification for given dataset.
		CS481.4	Categorize and apply appropriate clustering for given dataset.
		CS481.5	Evaluate models/algorithms with respect to their accuracy.
		CS481.6	Construct a data mining solution to a practical problem.

