METHODIST
COLLEGE OF ENGINEERING & TECHNOLOGY
(An UGC-AUTONOMOUS INSTITUTION)
Accredited by NAAC with A+ and NBA
Estd : 2008 Affiliated to Osmania University & Approved by AICTE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE OUTCOMES — **I SEMESTER** — **AY:2021-22**

Course Name	Faculty Name	CO / PO	Course Outcomes	Taxonomy
Programming with Problem Solving	Dr M Sharada Varalakshmi / Mr. Shaik Rasool/ Mrs. B. Vasavi Sravanthi / Mrs J Sowmya	ES101CS.1	Recognize the computer components and sketch the Flow Chart.	Understanding
		ES101CS.2	Formulate Algorithms and learn Fundamental program Methodologies of C Language.	Remember, Apply
		ES101CS.3	Understand control Statements and Interpret derived Data types with Mathematical and Engineering Problems.	Understanding.
		ES101CS.4	Develop modular Programming Techniques to solve Searching, Sorting and File system problems.	Create.
		ES101CS.5	Understand the concept of Conditional statement and Pointers.	Understanding.
		ES101CS.6	Recognize Pre-processor Directives and user defined Data Structues.	Understanding
Programming with Problem Solving Lab	Dr M Sharada Varalakshmi / Mr. Shaik Rasool/ Mrs. B. Vasavi Sravanthi / Mrs J Sowmya	ES151CS.1	Choose appropriate data type for implementing programs in C language	Apply
		ES151CS.2	write code to perform various mathematical calculations	Create.
		ES151CS.3	Design and implement modular programs involving input output operations, decision making and looping constructs	Apply
		ES151CS.4	Apply derived data types and implement programs to store data in structures and files	Apply
		ES151CS.5	Develop confidence for self-education and ability towards lifelong learning need of computer languages	Apply
		ES151CS.6	implement arrays and functions using pointer variables	Apply

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COURSE OUTCOMES — **III SEMESTER** — **AY:2021-22**

Course Name	Faculty Name	CO / PO	Course Outcomes	Taxonomy
Operation Research	Mr M Anil	HS103ME.1	Apply mathematical model (linear programming problem) for a physical situations like production, distribution of goods and economics	Creating
		HS103ME.2	Apply the concept of simplex method and its extensions to dual simplex algorithm.	Analyzing
		HS103ME.3	Analyze the various methods under transportation model and apply the model for testing	Creating
		HS103ME.4	Apply the various replacement policy and gaming strategies for arriving at optimal decision	Understanding
		HS103ME.5	Analyze and Applying the knowledge of sequencing model and to develop optimum model for job scheduling	Creating
		HS103ME.6	analyze the Queuing theory models and Optimization techniques.	Understanding

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Basic Electronics	Mr. Mahesh Babu	ES306EC.1	Understand the basic concepts on the working of various semi-conductor devices and there important characteristics.	Understanding
		ES306EC.2	Apply the design concepts of biasing for BJT and FET. Construct Amplifier Circuits for BJT and FET.	Applying
		ES306EC.3	Design the circuit to produce sinusoidal oscillations with different frequencies using oscillator circuits and Explain the basic knowledge on the feedback amplifier	Applying
		ES306EC.4	Examine Operational Amplifier circuits as ideal and practical, study of inverting and non inverting amplifiers and implement Summer, differentiator, integrator using op-amp.	Analyzing
		ES306EC.5	Explain Data Acquisition System, Basic concepts of transducers, its classification and understand the data converter, types of data converters.	Applying
		ES306EC.6	Evaluate Boolean laws and theorems. State and explain the different logic gates using truth table. Analyze and design different logic gates, adder circuits using BJT and MOS technologies.	Evaluating
Digital Electronics	Mr. Sanand Maharshi	ES303EC.1	Understand the deign process of digital hardware, use Boolean algebra to minimize the logical expressions and optimize the implementation of logical functions	Understanding
		ES303EC.2	Understand the number representation and design combinational circuits like Adders, Multiplexers etc.	Understanding
		ES303EC.3	Design combinational circuits using PLD's and write Verilog code for basic gates and combinational circuits.	Creating
		ES303EC.4	Analyse sequential circuits using flip-flops and design registers, counters.	Analysis
		ES303EC.5	Represent a sequential circuit using finite state machine and apply state minimization techniques to design an FSM	Applying
		ES303EC.6	Represent Finite State Machine using Algorithmic State Machine Chart	Applying

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Data Structures and Algorithms	Mrs G Saritha / Mrs. Shaziya Jabeen	PC301CS.1	Apply the notations used to analyze the performance of algorithms	Applying
		PC301CS.2	Describe various data structures like Stacks, Queues, Linked lists, Trees and Graphs are represented in memory and used by algorithms	Understanding
		PC301CS.3	Write programs that use various data structures like Stacks, Queues, Linked lists, Trees , Graphs and sortings .	Creating
		PC301CS.4	Compare and contrast the time complexities of various searching and sorting algorithms.	Analysing
		PC301CS.5	Design and implement an appropriate hashing function for an application and skip list	Applying
		PC301CS.6	Apply tree and graph traversal methods in real time applications.	Evaluating
Discrete Mathematics	Mrs Unnati K / Mrs. Shaziya Jabeen	PC302CS.1	Apply propositional and predicate logic for a variety of problems in various domains	Applying
		PC302CS.2	Illustrate by examples the basic terminology of functions, relations, and analyse different algebraic structures with suitable examples	Analyzing
		PC302CS.3	Understand basics of counting, apply permutations and combinations to handle different types of objects	Applying
		PC302CS.4	Describe and apply recursively-defined relationships to solve problems using generating functions	Applying
		PC302CS.5	Identify the basic properties of graphs and trees and use these concepts to model simple applications	Analyzing
		PC302CS.6	Apply the knowledge and skills obtained to investigate and solve a variety of discrete mathematics problems.	Applying

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OOP using JAVA	Mrs B Sowjanya / Mrs Unnati K	PC303CS.1	Achieve proficiency in object-oriented concepts and learn to incorporate the same into the Java programming language.	Applying
		PC303CS.2	Create Java application programs using OOP concepts e.g. Inheritance, interfaces, multithreading and proper program structuring by using packages, access control specifiers	Creating
		PC303CS.3	Understand and Implement the concepts of Exception Handling in JAVA.	Applying
		PC303CS.4	Develop the ability to solve real-world problems through software development in high-level programming language using Large APIs of Java as well as the Java standard class library	Creating
		PC303CS.5	Create graphical user interface and event driven programs in Java	Creating
		PC303CS.6	Create applications using concepts of JDBC , Servlet in Java	Creating
Data Structures and Algorithms Lab	Mrs G Saritha / Mrs. Shaziya Jabeen	PC351CS.1	Implement multiple data structures utilising linked lists and arrays.	Applying
		PC351CS.2	Develop the ADT required to address issues involving stacks and queues.	Creating
		PC351CS.3	Implement binary trees, general tree structures, advanced search trees.	Applying
		PC351CS.4	Implement hashing algorithms and deal with collisions	Applying
		PC351CS.5	Apply the proper techniques for a specific problem by using a variety of sorting techniques.	Analyzing
		PC351CS.6	Implement heaps, graph traversal techniques	Creating

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Advanced Computer Skills Lab	Mrs. Maria Anjum	PC352CS.1	Implement basic syntax in python.	Creating
		PC352CS.2	Analyse and implement different kinds of OOP concept in python	Analyzing
		PC352CS.3	Implement MATLAB operations and graphic functions	Creating
		PC352CS.4	understand the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python	Understanding
		PC352CS.5	Able to implement Decision Making statements and Functions in python and MATLAB	Creating
		PC352CS.6	Able to use underastand Object oriented Principles in Python.	Understanding
Basic Electronics Lab	Mr. Mahesh Babu	ES351EC.1	Plot characteristics of semiconductor diodes	Applying
		ES351EC.2	Calculate ripple factor, efficiency and % regulation of rectifier circuits	Remembering
		ES351EC.3	Plot the characteristics of different transistor & FET Configurations.	Applying
		ES351EC.4	To Calculate the different frequency of oscillator circuits.	Remembering
		ES351EC.5	To plot the frequency response of a Common Emitter BJT amplifier.	Applying
		ES351EC.6	Study and performance of linear and non linear applications of op-amp	Understanding

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OOPS Using Java Lab	Mrs B Sowjanya / Mrs Unnati K	PC353CS.1	Develop Java applications using the concepts of Inheritance, interfaces, packages, access control specifiers ,multithreading	Creating
		PC353CS.2	Implement the concepts of Exception Handling in java Applications	Creating
		PC353CS.3	Write Java programs using Collections	Applying
		PC353CS.4	Read and write data using different Java I/O streams	Applying
		PC353CS.5	Create robust applications using Java standard class libraries and retrieve data from a database with JDBC	Creating
		PC353CS.6	Create graphical user interfaces and Applets by applying the knowledge of Event Handling.	Creating

COURSE OUTCOMES **III SEMESTER (AI & DS)** **AY:2021-22**

Course Name	Faculty Name	CO / PO	Course Outcomes	Taxonomy
Data Structures and Algorithms	Mr. P.V. Ramanaiah	PC301AD.1	Apply the notations used to analyze the performance of algorithms	**Applying**
		PC301AD.2	Describe various data structures like Stacks, Queues, Linked lists, Trees and Graphs are represented in memory and used by algorithms	Understanding
		PC301AD.3	Write programs that use various data structures like Stacks, Queues, Linked lists, Trees , Graphs and sortings .	Creating
		PC301AD.4	Compare and contrast the time complexities of various searching and sorting algorithms.	Analysing
		PC301AD.5	Design and implement an appropriate hashing function for an application and skip list	Applying
		PC301AD.6	Apply tree and graph traversal methods in real time applications.	Evaluating

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OOP using JAVA	Mr. D. Rajashekar	PC302AD.1	Achieve proficiency in object-oriented concepts and learn to incorporate the same into the Java programming language.	Understanding
		PC302AD.2	Create Java application programs using OOP concepts e.g. Inheritance, interfaces, multithreading and proper program structuring by using packages, access control	Creating
		PC302AD.3	Understand and Implement the concepts of Exception Handling in JAVA.	Understand
		PC302AD.4	Develop the ability to solve real-world problems through software development in high-level programming language using Large APIs of Java as well as the Java	Creating
		PC302AD.5	Create graphical user interface and event driven programs in Java	Creating
		PC302AD.6	Create applications using concepts of JDBC , Servlet in Java	Creating
Discrete Mathematics	Mrs. J. Sowmya	PC303AD.1	Apply propositional and predicate logic for a variety of problems in various domains.	Applying
		PC303AD.2	Understand Set Theory, Venn Diagrams, relations, functions and apply them to Real-world Scenarios.	Analyzing
		PC303AD.3	Model and solve the real world problems using Generating Functions and Recurrence Relations.	Create
		PC303AD.4	To identify the basic properties of graphs and trees and use these concepts to model simple applications.	Applying
		PC303AD.5	Understand General properties of Algebraic systems and study lattices as partially ordered sets and their applications.	Analyzing
		PC303AD.6	Apply the knowledge and skills obtained to investigate and solve a variety of discretemathematics problems.	Applying

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Digital Electronics	Mr. Sameed	ES216EC.1	Understand the deign process of digital hardware, use Boolean algebra to minimize the logical expressions and optimize the implementation of logical functions	Understanding
		ES216EC.2	Understand the number representation and design combinational circuits like Adders, Multiplexers etc.	Understanding
		ES216EC.3	Design combinational circuits using PLD's and write Verilog code for basic gates and combinational circuits.	Creating
		ES216EC.4	Analyse sequential circuits using flip-flops and design registers, counters.	Analysis
		ES216EC.5	Represent a sequential circuit using finite state machine and apply state minimization techniques to design an FSM	Applying
		ES216EC.6	Represent Finite State Machine using Algorithmic State Machine Chart	Applying
Basic Electronics	Mr. Mujtaba	ES214EC.1	Understand the basic concepts on the working of various semi-conductor devices and there important characteristics.	Understanding
		ES214EC.2	Apply the design concepts of biasing for BJT and FET. Construct Amplifier Circuits for BJT and FET.	Applying
		ES214EC.3	Design the circuit to produce sinusoidal oscillations with different frequencies using oscillator circuits and Explain the basic knowledge on the feedback amplifier	Applying
		ES214EC.4	Examine Operational Amplifier circuits as ideal and practical, study of inverting and non inverting amplifiers and implement Summer, differentiator, integrator using op-	Analyzing
		ES214EC.5	Explain Data Acquisition System, Basic concepts of transducers, its classification and understand the data converter, types of data converters.	Applying
		ES214EC.6	Evaluate Boolean laws and theorems. State and explain the different logic gates using truth table. Analyze and design different logic gates, adder circuits using BJT	Evaluating

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M-III (Probability and Statistics)	Mr. T Joseph	BS205MT.1	Apply Baye's theorem to find the probability of given functions and Classification of Random Variables	Apply
		BS205MT.2	Evaluation of statistical parameters for Binomial and Poisson distributions and Find moments, skewness and Kurtosis.	Evaluate
		BS205MT.3	Evaluation of statistical parameters for Normal , Uniform and Exponential distributions.	Evaluate
		BS205MT.4	Fitting the curves and find Correlation coefficient and Regression lines.	Analyse
		BS205MT.5	Testing of hypothesis for Large samples.	Apply
		BS205MT.6	Testing of hypothesis for Small samples.	Apply
Data Structures and Algorithms Lab	Mr. P.V. Ramanaiah	PC351AD.1	Understand and Implement the abstract data type and reusability of a particular data structure.	Remembering
		PC351AD.2	Implement linear data structures such as stacks, queues using array and linked list.	Understanding
		PC351AD.3	Understand and implements non-linear data structures such as trees, graphs.	Evaluating
		PC351AD.4	Implement various kinds of searching, sorting and traversal techniques and know when to choose which technique.	Creating
		PC351AD.5	Understanding and implementing hashing techniques.	Analyzing
		PC351AD.6	Decide a suitable data structure and algorithm to solve a real world problem.	Applying

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OOPS Using Java Lab	Mr. D. Rajashekar	PC352AD.1	Develop Java applications using the concepts of Inheritance, interfaces, packages, access control specifiers ,multithreading	Creating
		PC352AD.2	Implement the concepts of Exception Handling in java Applications	Creating
		PC352AD.3	Write Java programs using Collections	Applying
		PC352AD.4	Read and write data using different Java I/O streams	Applying
		PC352AD.5	Create robust applications using Java standard class libraries and retrieve data from a database with JDBC	Creating
		PC352AD.6	Create graphical user interfaces and Applets by applying the knowledge of Event Handling.	Creating
Basic Electronics Lab	Mr. Mujtaba	ES351EC.1	Plot characteristics of semiconductor diodes	Applying
		ES351EC.2	Calculate ripple factor, efficiency and % regulation of rectifier circuits	Remembering
		ES351EC.3	Plot the characteristics of different transistor & FET Configurations.	Applying
		ES351EC.4	To Calculate the different frequency of oscillator circuits.	Remembering
		ES351EC.5	To plot the frequency response of a Common Emitter BJT amplifier.	Applying
		ES351EC.6	Study and performance of linear and non linear applications of op-amp	Understanding

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COURSE OUTCOMES		V SEMESTER		AY:2021-22
Course Name	**Faculty Name**	**CO / PO**	**Course Outcomes**	**Taxonomy**
Software Engineering	Mr. R. Sandeep / Mrs. Deepthi Joshi	PC501CS.1	Apply various process model approaches and techniques in each phase of SDLC to solve real world problems.	Applying
		PC501CS.2	Analyze the various software engineering principles to understand the System and Requirement engineering process.	Analyzing
		PC501CS.3	Construct the various Project models based on the analysis and Design engineering.	Creating
		PC501CS.4	Acquire the skills to address recurring software problems to architect a complete software project by component and UI design rules.	Applying
		PC501CS.5	Assess the quality of software by performing the various debugging and testing strategies.	Analyzing
		PC501CS.6	Apply the SDLC process and principles to address the real world problems to improve Software project/Product quality.	Applying
Operating Systems	Dr. Syed Azahad / Dr. M. Sharada Vara Lakshmi	PC502CS.1	Analyse System calls and Explain the concepts of OS structure	Analyse
		PC502CS.2	Evaluate and design different process scheduling algorithms	Evaluate
		PC502CS.3	Identify the rationale behind various memory management techniques along with issues and challenges of main memory, virtual memory	Apply
		PC502CS.4	Compare different file allocation methods and decide appropriate allocation strategies for given type of file.	Analyse
		PC502CS.5	Explain the mechanisms available in OS to control access to resource and provide system security.	Evaluate
		PC502CS.6	Describe secondary storage structures and Disk scheduing Algorithms.	Understand

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Automata, Languages & Computation	Mrs. B. Vasavi Sravanthi	PC503CS.1	Explain the basic concepts of finite automata and regular expressions	Understanding
		PC503CS.2	Describe the types of grammar and derivation tree.	Understanding
		PC503CS.3	Test the equivalence of pushdown automata and CFL.	Evaluating
		PC503CS.4	Develop a computational model using Turing machine for the given problem	Creating
		PC503CS.5	Use Chomsky hierarchy to solve given problems	Applying
		PC503CS.6	Examine the complexity for P and NP completeness for the given problem.	Evaluating
Artificial Intelligence	Mrs. Deepthi Joshi / Mrs. G. Saritha	PE511CS.1	Explain the principles of Artificial Intelligence	Understanding
		PE511CS.2	Illustrate the techniques for knowledge representation and inference	Understanding
		PE511CS.3	Identify problems that are amenable to solution by AI method.	Applying
		PE511CS.4	Survey different applications like Game Playing, Expert Systems, Machine Learning and Natural Language Processing	Analyzing
		PE511CS.5	Analyze working of an AI technique	Analyzing
		PE511CS.6	Explain a given problem in the language/framework of different AI methods	Evaluating
Web and Internet Technologies	Mr. Shaik Rasool	PE527CS.1	Understand the concepts of Internet ,HTML and CSS .	Understand
		PE527CS.2	Design and develop dynamic web pages using JavaScript.	Creating
		PE527CS.3	Understand the concepts of XML and J2EE	Understand
		PE527CS.4	Understand and apply the concepts of servlet framework	Understand and Applying
		PE527CS.5	Build interactive web applications using JSP.	Applying
		PE527CS.6	Interpret and apply the concepts of database connectivity in web applications	Understand

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Data Analytics	Mr. M. V. D. S. Krishna Murthy	PE530CS.1	Demonstrate proficiency with statistical analysis of data	Understanding
		PE530CS.2	Develop the ability to build and assess data-based models	Applying
		PE530CS.3	Analyze statistical data with professional statistical software	Analyzing
		PE530CS.4	Demonstrate skill in data management	Understanding
		PE530CS.5	Apply data science concepts	Applying
		PE530CS.6	Apply data science methods to solve real-world problems	Applying
Block Chain Technologies	Mrs. Maleka Anjum	PE523CS.1	Explain design principles of Bitcoin and Ethereum	Understand
		PE523CS.2	Demonstrate the application of hashing and public key cryptography in protecting the blockchain	Apply
		PE523CS.3	Analyse the block chain applications in a structure manner.	Analyse
		PE523CS.4	List and Describe differences between Proof -of-Work and Proof-of-Stake consensus	Understand
		PE523CS.5	Apply security features in blockchain technologies.	Apply
		PE523CS.6	Design , Build and Deploy a distributed application	Create

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Information Retrieval Systems	Mr. D. Rajashekar	PE524CS.1	Understand the algorithms and techniques for information retrieval (document indexing and	Analyzing
		PE524CS.2	Appraise Structured Text Retrieval Models, Models for Browsing, Retrieval Evaluation and Query Languages.	Evaluating
		PE524CS.3	Understand Query Operations, Text and Multimedia Languages and Properties.	Applying
		PE524CS.4	Analyze the Text Operations of Document Preprocessing, Clustering, Text Compression and Indexing techniques.	Analyzing
		PE524CS.5	Classify and cluster documents	Analyzing
		PE524CS.6	Understand the practical aspects of information retrieval such as those in web search engines.	Analyzing
Software Engineering Lab	Mr. R. Sandeep / Mrs. Deepthi Joshi	PC531CS.1	Interpret a variety of approaches and perspectives of system development.	Understanding-
		PC531CS.2	Identify the requirements which are relevant to the design of a system.	Applying
		PC531CS.3	Model software design with a set of objects and their relationships using structural modelling.	Applying
		PC531CS.4	Take part in using advanced & behavioural modelling to develop a case study.	Analysing
		PC531CS.5	Design the activities with the help of behavioural modelling.	Creating
		PC531CS.6	Develop components through architectural modelling.	Creating
Operating Systems Lab	Dr. Syed Azahad / Dr. M. Sharada Vara Lakshmi	PC532CS.1	Experiment with basic Linux Shell Commands and Implementation of UNIX system calls.	Apply
		PC532CS.2	Compare various CPU Scheduling Algorithms like FCFS, Round Robin, SJF, and Priority and Develop programs for all the algorithms.	Create
		PC532CS.3	Analyze the performance of the various Memory Management Algorithms and Develop various Memory Management Schemes.	Analyze
		PC532CS.4	Interpret the benefits of thread over process and Build synchronized programs using multithreading concepts.	Apply
		PC532CS.5	Interpret the concept of Inter – Process Communications, Process Synchronization and Create programs like Dining Philosophers Problem and Readers Writers Problem	Apply
		PC532CS.6	Explain the basics of shell scripting and Develop shell scripts for simple system administration tasks.	Create

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Mini Project	Mrs B Sowjanya / Er R Sandeep	PC533CS.1	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems	Understanding
		PC533CS.2	Evaluate different solutions based on Economic and Technical feasibility	Evaluating
		PC533CS.3	Effectively plan a project and confidently perform all aspects of project.	Analyzing
		PC533CS.4	Demonstrate effective written and oral communication skills	Understanding
		PC533CS.5	Undertake problem identification, formulation and solution	Creating
		PC533CS.6	Plan, analyze, design and implement a software project or gather knowledge over the field of research.	Creating

COURSE OUTCOMES **VII SEMESTER**

AY:2021-22

Course Name	Faculty Name	CO / PO	Course Outcomes	Taxonomy
Information Security	Dr. Shruthi Sk	PC701CS.1	Explain the role of IS professionals and demonstrate the various phases in Security Systems development life cycle.	Remembering
		PC701CS.2	Identify the common threats and attack to information systems	Understanding
		PC701CS.3	Determine the various legal bodies and laws related to IS and risk management.	Analyzing
		PC701CS.4	Choosing the appropriate risk control strategy based on business needs.	Applying
		PC701CS.5	Understand the types of Intrusion Detection techniques and network solution perimeter tools.	Understanding
		PC701CS.6	Illustrate Cryptography algorithms and mitigate attacks on crypto systems.	Applying

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Data Science Using R Programming	Dr. P. Lavanya / Mr. T. Praveen Kumar	PC702CS.1	Understanding the mathematical foundations required for data science	Understanding
		PC702CS.2	Understanding exploratory data analysis for probability and statistical distributions	Understanding
		PC702CS.3	Use linear, non-linear regression models for data analysis	Applying
		PC702CS.4	Use various data structures and packages in R for data visualization and summarization	Applying
		PC702CS.5	Applying classification and clustering methods on real world applications	Applying
		PC702CS.6	Develop R codes for data science solutions	Create
Distributed Systems	Mr. A. Rajesh	PC703CS.1	Understand the problems and challenges associated with distributed systems and analyze IPCs with various architectures implemented.	Understanding
		PC703CS.2	Analyze synchronization among processes, distributed algorithms along with the general properties of networked communication necessary through RPC and RMI interfaces.	Analyzing
		PC703CS.3	Understand the importance of security in distributed systems. Analyze with Distributed-coordination based systems to achieve Consistency and Replication.	Applying
		PC703CS.4	Differentiate about working of various Distributed file systems and Computing techniques. Apply distributed transaction control algorithms to reduce deadlocks.	Analyzing
		PC703CS.5	Analyze the Distributed web-based system for concurrency control along with the web service and distributed service oriented architecture, fault tolerance mechanisms.	Applying
		PC703CS.6	Remember the emerging trends in distributed computing and deduce representations to incorporate Map-reduce model.	Remembering

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Enterpreneurship	Dr. M. Udaya Kumar	OE775ME.1	Understand Industrial environment and challenges associated with Entreprenuership ,small and large scale industries , Economic development and	Understanding
		OE775ME.2	Identify characteristics of Entreprenuers , First generation and women entreprenuers,evaluation of ideas and Technology	Remembering
		OE775ME.3	Analyzing project formulation , financial and technical analysis	Analyzing
		OE775ME.4	Evaluate profatability and financial analysis	Evaluate
		OE775ME.5	Explain the concepts of Intellectual property rights and patents	Applying
		OE775ME.6	Comprehend the aspects of Start-Ups	Understanding
Data ScienceUsing R Lab	Dr. P. Lavanya / Mr. T. Praveen Kumar	PC751CS.1	Understand the semantics, data handling and control statements in R	Understanding
		PC751CS.2	Analyze the libraries for data manipulation	Analyzing
		PC751CS.3	Apply hypothesis tests for statistical inference.	Applying
		PC751CS.4	Synthesize data to fit linear and nonlinear models.	Create
		PC751CS.5	Implement regression and clustering analysis using R.	Create
		PC751CS.6	Implement optimization and data visualization using R.	Create
Distributed Systems Lab	Mr. A. Rajesh	PC752CS.1	Write programs that communicate data between two hosts	Creating
		PC752CS.2	Configure Network File Systems	Understanding
		PC752CS.3	Use distributed data processing frameworks and mobile application tool kits	Applying
		PC752CS.4	Trace Communication protocols in distributed systems	Analyze
		PC752CS.5	Develop an application using a technology from distributed system	Creating
		PC752CS.6	Design of algorithm distributed system	Creating

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Project Work – I	Mr. P.V. Ramanaiah / Mr. T. Praveen Kumar	PW761CS.1	Demonstrate the ability to apply the knowledge and skills acquired in the academic program to the real-world problems	Understanding
		PW761CS.2	Evaluate different solutions based on feasibility study	Evaluating
		PW761CS.3	Effectively plan a project .	Analyzing
		PW761CS.4	Demonstrate effective written and oral communication skills	Understanding
		PW761CS.5	Undertake problem identification, formulation and execution	Creating
		PW761CS.6	Plan, analyze, design, implement and test a software project .	Creating
Summer Internship	Dr. M. SharadaVara Lakshmi	SI762CS.1	Design/ develop a small and simple product in hardware or software	Create,Apply
		SI762CS.2	Build the task or realize a pre-specified target, with limited scope, rather taking up a complex task and leave it	Applying
		SI762CS.3	determine the challenges and future potential for his / her internship organization in particular and the sector in general.	Analyze
		SI762CS.4	test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period.	Analyze
		SI762CS.5	apply various soft skills such as time management, positive attitude and communication skills during performance of the tasks assigned in internship	Applying
		SI762CS.6	analyze the functioning of internship organization and recommend changes for improvement in processes.	Analyzing

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE OUTCOMES		II SEMESTER		AY:2021-22
Course Name	**Faculty Name**	**CO / PO**	**Course Outcomes**	Taxonomy
Data Structures (Autonomous)	Shaziya Zabeen / Mr. Shaik Rasool/ Mrs. B. Vasavi Sravanthi / Dr Syed Azahad	ES202CS.1	define, understand and write the algorithms	Remembering /Understanding
		ES202CS.2	able to represent linked list and differntiate the trees	Analyzing
		ES202CS.3	analyze the complexities of an algorithm and evaluate the expresions	Analyzing
		ES202CS.4	implement single,double linked list, stacks,queues,trees with its operations	Applying
		ES202CS.5	analyse and compute the average cost by using various amortized methods	Applying
		ES202CS.6	implement various graph traversals to find the best path	Applying
Data Structures Lab	Mrs Shaziya Zabeen / Mr. Shaik Rasool/ Mrs. B. Vasavi Sravanthi / Dr Syed Azahad	ES252CS.1	Understand and Implement the abstract data type and reusability of a particular data structure.	Remembering
		ES252CS.2	Implement linear data structures such as stacks, queues using array and linked list.	Understanding
		ES252CS.3	Understand and implements non-linear data structures such as trees, graphs.	Evaluating
		ES252CS.4	Implement various kinds of searching, sorting and traversal techniques and know when to choose which technique.	Creating
		ES252CS.5	Understanding and implementing hashing techniques.	Analyzing
		ES252CS.6	Decide a suitable data structure and algorithm to solve a real world problem.	Applying

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COURSE OUTCOMES — **IV SEMESTER (CSE)** — **AY:2021-22**

Course Name	Faculty Name	CO / PO	Course Outcomes	Taxonomy
Effective Technical Communication in English	Mr Linga Murthy	HS104EG.1	Develop an understanding of fundamentals of Technical Communication	Understand
		HS104EG.2	Demonstrate the ability to choose the right mode of Written Communication in Official Correspondence	Apply
		HS104EG.3	Analyze and differentiate various types of Reports and would use appropriately based on the requisite.	Analyze
		HS104EG.4	Determine using the importance of using, Writing different kinds of Manuals and l;their Classification.	Analyze
		HS104EG.5	Estimate the deliberate value of a Visual Aid along with its usage , through the understanding of Informatioon Transfer from Verbal to Non-Verbal and Non-Verbal to Verbal.	Evaluate
		HS104EG.6	Combine the Skill of both Oral and Visual Presentation Skills and be able to adapt to the changing scenerio of the present day.	Create
Finance and Accounting	Mr Shyam Sunder	HS105CM.1	Understand the financial and Accounting aspects of a business.	Understanding
		HS105CM.2	Evaluate financial Performance of the business unit.	Evaluate
		HS105CM.3	Understand about the financial system and markets.	Understanding
		HS105CM.4	Evaluate the viability of projects by using Capital budgeting Techniques.	Evaluate
		HS105CM.5	Analyze the overall financial functioning and long term investment	Analyzing
		HS105CM.6	Analyze the financial statement and performance of the company	Analyzing

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M-III(Probability and Statistics)	Mr T joseph / Mr D . Swamy	BS207MT.1	Apply Baye's theorem to find the probability of given functions and Classification of Random Variables	Apply
		BS207MT.2	Evaluation of statistical parameters for Binomial and Poisson distributions and Find moments, skewness and Kurtosis.	Evaluate
		BS207MT.3	Evaluation of statistical parameters for Normal , Uniform and Exponential distributions.	Evaluate
		BS207MT.4	Fitting the curves and find Correlation coefficient and Regression lines.	Analyse
		BS207MT.5	Testing of hypothesis for Large samples.	Apply
		BS207MT.6	Testing of hypothesis for Small samples.	Apply
Signals and Systems	Mr Shravan kumar	ES305EC.1	Differentiate various types of signals and systems in continuous and discrete time	Understanding
		ES305EC.2	Importance of frequency domain analysis and apply Fourier series for continuous time signals	Analyzing
		ES305EC.3	Apply the properties of Fourier transform for continuous time signals (TL:3)	Applying
		ES305EC.4	Relate Laplace transforms to solve differential equations and to determine the response of the CT- LTI Systems	Evaluating
		ES305EC.5	Apply Z-transforms for discrete time signals to solve Difference equations	Evaluating
		ES305EC.6	Determine Linear Convolution and Correlation of discrete time signals with graphical representation	Evaluating
Operating System	Dr P Lavanya / Mr U Moulali	PC401CS.1	Understand System calls and Explain the concepts of OS structure	Understand
		PC401CS.2	Evaluate and design different process scheduling algorithms	Evaluate
		PC401CS.3	Identify the rationale behind various memory management techniques along with issues and challenges of main memory, virtual memory	Apply
		PC401CS.4	Compare different file allocation methods and decide appropriate allocation strategies for given type of file.	Analyse
		PC401CS.5	Explain the mechanisms available in OS to control access to resource and provide system security.	Evaluate
		PC401CS.6	Describe secondary storage structures and disk scheduling algorithms.	Understand

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Computer Organization	Dr Diana Moses / Er R Sandeep	PC402CS.1	Recall and apply a basic concept of block diagram of computer (CPU) with Microprocessor processor unit (MPU)	Understanding
		PC402CS.2	Categorize memory organization and explain the function of each element of a memory hierarchy	Analyzing
		PC402CS.3	Understand the internal architecture, instruction set and addressing modes.	Understanding
		PC402CS.4	Apply knowledge and demonstrate programming proficiency using the various addressing modes and instruction sets of 8085	Applying
		PC402CS.5	Analyze stacks, subroutines and various interfaces usage and working.	Analyzing
		PC402CS.6	Apply knowledge and demonstrate interfaces with 8085 with outside world.	Applying
Database Management System	Dr M Sharada Varalakshmi / Mrs B Vasavi Sravanthi	PC403CS.1	Define, explain and illustrate the fundamental concepts of databases	Understand
		PC403CS.2	Construct an Entity-Relationship (E-R) model from specifications and to perform the transformation of the conceptual model into corresponding logical data structures..	Apply
		PC403CS.3	Model and design a relational database following the design principles	Apply
		PC403CS.4	Develop queries for relational database in the context of practical applications	Applying
		PC403CS.5	Define, explain and illustrate fundamental principles of data organization, query optimization and concurrent transaction processing.	Understand
		PC403CS.6	Design an develop the databases	Create
Computer Organization Lab	Dr Diana Moses / Er R Sandeep	PC451CS.1	Design and implement programs on Intel 8085 microprocessor kit	Creating
		PC451CS.2	Experiment with different addressing modes of 8085 using different assembly language programs	Analyzing
		PC451CS.3	Experiment with different 8-bit and 16-bit arithmetic operations on 8085 using different assembly language programs	Understanding
		PC451CS.4	Design and implement programs for interfacing peripheral devices with Intel 8085 microprocessor.	Applying
		PC451CS.5	Analyze different typyes of I/O Transfer during interfacing with peripheral devices	Analyzing
		PC451CS.6	Design and develop microprosser based control systems	Applying

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Operating System Lab	Dr P Lavanya / Mr U Moulali	PC452CS.1	Experiment with basic Linux Shell Commands and Implementation of UNIX system calls.	Apply
		PC452CS.2	Compare various CPU Scheduling Algorithms like FCFS, Round Robin, SJF, and Priority and Develop programs for all the algorithms.	Create
		PC452CS.3	Analyze the performance of the various Memory Management Algorithms and Develop various Memory Management Schemes.	Analyze
		PC452CS.4	Interpret the benefits of thread over process and Build synchronized programs using multithreading concepts.	Apply
		PC452CS.5	Interpret the concept of Inter – Process Communications, Process Synchronization and Create programs like Dining Philosophers Problem and Readers Writers Problem Producer – Consumer Problem.	Apply
		PC452CS.6	Explain the basics of shell scripting and Develop shell scripts for simple system administration tasks.	Create
Database Management System Lab	Dr M Sharada Varalakshmi / Mrs B Vasavi Sravanthi	PC453CS.1	Define basic functions of DBMS & RDBMS.	Understanding
		PC453CS.2	Analyze database models & entity relationship models.	Applying
		PC453CS.3	Design and implement a database schema for a given problem-domain	Applying
		PC453CS.4	Populate and query a database using SQL DML/DDL commands.	Applying
		PC453CS.5	Programming PL/SQL including stored procedures, stored functions, cursors and package	Understanding
		PC453CS.6	Design and implement for Forms and Reports	Applying

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COURSE OUTCOMES — **IV SEMESTER (AI & DS)** — **AY:2021-22**

Course Name	Faculty Name	CO / PO	Course Outcomes	Taxonomy
Computer Organization & Microprocessor	Mrs J Sowmya	PC401AD.1	Recall and apply a basic concept of block diagram of computer (CPU) with Microprocessor processor unit (MPU)	Applying
		PC401AD.2	Understand the importance of addressing modes, instruction formats and program control instructions	Understanding
		PC401AD.3	Identify and compare different methods for computer I/O mechanisms	Analyzing
		PC401AD.4	Categorize memory organization and explain the function of each element of a memory hierarchy	Analyzing
		PC401AD.5	Understand the internal architecture and register organization of 8086, Apply and demonstrate various addressing modes and instruction sets of 8086	Understanding, Applying
		PC401AD.6	Demonstrate fundamental understanding on the operation between the Microprocessor and its interfacing devices.	Applying
Design And Analysis of Algorithms	Mrs B Sowjanya	PC402AD.1	Analyze the correctness of algorithms, Time and Space Complexities of algorithms using inductive proofs and asymptotic analysis.	Analyzing
		PC402AD.2	Apply various algorithmic strategies like Divide and Conquer, Brute Force for solving Complex problems. (Sorting ,searching ,Travelling salesman problem and String Matching)	Applying
		PC402AD.3	Analyze algorithmic strategies like Greedy method and Dynamic Programming to get optimized solution for complex problems.	Analyzing
		PC402AD.4	Design algorithms using the Backtracking, Branch and Bound strategy, employ these strategies for complex problems.	Creating & Applying
		PC402AD.5	Understand the major graph algorithms and Employ graphs to model engineering problems, when appropriate.	Applying
		PC402AD.6	Understand parallel computing and the classes P, NP, and NP-Complete and be able to prove that a certain problem is NP-Complete	Evaluate

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Data Science	Mr T Praveen Kumar	PC403AD.1	Understanding the mathematical foundations required for data science	Understanding
		PC403AD.2	Understanding exploratory data analysis for probability and statistical distributions	Understanding
		PC403AD.3	Use linear, non-linear regression models for data analysis	Applying
		PC403AD.4	Use various data structures and packages in R for data visualization and summarization	Applying
		PC403AD.5	Applying classification and clustering methods on real world applications	Applying
		PC403AD.6	Develop R codes for data science solutions	Creating
Operating Systems	Mr D Rajashekar	PC404AD.1	Understand the concepts of OS structure and process synchronization.	Understanding
		PC404AD.2	Evaluate and design different process scheduling algorithms	Evaluate
		PC404AD.3	Identify the rationale behind various memory management techniques along with issues and challenges of main memory, virtual memory.deadlock	Analyzing
		PC404AD.4	Compare different file allocation methods and decide appropriate allocation strategies for given type of file.	Analyzing
		PC404AD.5	Contrast the mechanisms available in OS to control access to resource and provide system security.	Analyzing
		PC404AD.6	Appraise secondary storage structure and RAID structure.	Understanding
Computer Networks	Dr Syed Azahad	PC405AD.1	Describe the functions of each layer in OSI and TCP/IP model.	Remembering
		PC405AD.2	Explain the functions of Application layer and Presentation layer paradigms and Protocols.	Understanding
		PC405AD.3	Examine the Transport layer services and protocols.	Analyzing
		PC405AD.4	Interpret the network layer ,routing protocols and analyze how to assign the IP addresses for the given network.	Applying
		PC405AD.5	Determining factors influencing the QoS.	Evaluating
		PC405AD.6	Build Client-Server applications using socket Programming	Creating

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Finance and Accounting	Mr Shyam sunder	HS105CM.1	understand the basic concepts of financial accounting&classify preparation of various books of accounts	Understanding
		HS105CM.2	Analyze & interpret financial statements.	Analyzing
		HS105CM.3	interpret knowledge about the functioning & working of various financial institutions.	Understanding
		HS105CM.4	Apply traditional & modern techniques of capital budgeting in long term investments, to test whether to invest in a particular project or not.	Applying
		HS105CM.5	analyze the liquidity ,solvency & profitability of financial statements.	Analyzing
		HS105CM.6	Evaluate the financial performance of the business unit.	Evaluating
Computer Organization & Microprocessor Lab	Mrs J Sowmya	PC451AD.1	Design and implement programs on Intel 8086 microprocessor kit	Creating
		PC451AD.2	Experiment with different addressing modes of 8086 using different assembly language programs	Analyzing
		PC451AD.3	Experiment with different 8-bit and 16-bit arithmetic operations on 8086 using different assembly language programs	Understanding
		PC451AD.4	Design and implement programs for interfacing peripheral devices with Intel 8086 microprocessor.	Applying
		PC451AD.5	Analyze different typyes of I/O Transfer during interfacing with peripheral devices	Analyzing
		PC451AD.6	Design and develop microprosser based control systems	Applying

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Computer Networks Lab	Dr Syed Azahad	PC452CS.1	Understanding and Exploring different networking Commanda like tcpdump,netstat, ipconfig, nslookup, FTP, TELNET and traceroute	Understanding
		PC452CS.2	Implement various protocols using TCP and UDP	Creating
		PC452CS.3	Develop programs using Sockets	Developing
		PC452CS.4	Analyze the performance of various network protocols using various simulation tools(NS2/NS3/Cisco Packet tracer)	Analyzing
		PC452CS.5	Implement and Analyze various routing algorithms.	Analyzing
		PC452CS.6	Implementation of various Programs using Remote Procedure calls	Creating
Operating System Lab	Mr D Rajashekar	PC452CS.1	Experiment with basic Linux Shell Commands and Implementation of UNIX system calls.	Understanding
		PC452CS.2	Compare various CPU Scheduling Algorithms like FCFS, Round Robin, SJF, and Priority and Develop programs for all the algorithms.	Analyzing
		PC452CS.3	Analyze the performance of the various Memory Management Algorithms and Develop various Memory Management Schemes.	Analyzing
		PC452CS.4	Interpret the benefits of thread over process and Build synchronized programs using multithreading concepts.	Evaluating
		PC452CS.5	Interpret the concept of Inter – Process Communications, Process Synchronization and Create programs like Dining Philosophers Problem and Readers Writers Problem Producer – Consumer Problem.	Create
		PC452CS.6	Explain the basics of shell scripting and Develop shell scripts for simple system administration tasks.	Create

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Data Science Lab	Mr T Praveen Kumar	PC454CS.1	Understand the semantics, data handling and control statements in R	Understanding
		PC454CS.2	Analyze the libraries for data manipulation	Analyzing
		PC454CS.3	Apply hypothesis tests for statistical inference.	Applying
		PC454CS.4	Synthesize data to fit linear and nonlinear models.	Create
		PC454CS.5	Implement regression and clustering analysis using R.	Create
		PC454CS.6	Implement optimization and data visualization using R.	Create
COURSE OUTCOMES		**VI SEMESTER**		**AY:2021-22**
Course Name	**Faculty Name**	**CO / PO**	**Course Outcomes**	Taxonomy
Compiler Design	Mrs Unnati Mohan / Mr A Rajesh	PC601CS.1	Create Lexical rules and grammars for a given language	Creating
		PC601CS.2	Compare top down with bottom up parsers, and develop appropriate parser to produce parse tree representation of the input	Analyzing
		PC601CS.3	Develop syntax directed translation schemes and design a symbol table format for the language	Applying , Creating
		PC601CS.4	Generate intermediate code for statements in high level language	Creating
		PC601CS.5	Use Program analysis techniques for code optimization	Applying
		PC601CS.6	Develop algorithms to generate code for target machine	Creating

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Computer Networks	Mrs G Saritha / Mrs B Sowjanya	PC602CS.1	Explain the functions of the different layer of the OSI and TCP/IP Protocol.	Understanding
		PC602CS.2	Evaluate data communication link considering elementary concepts of data link layer protocols for error detection and correction	Evaluation
		PC602CS.3	Interpret the network layer ,routing protocols and analyze how to assign the IP addresses for the given network	Evaluation
		PC602CS.4	Examine the Transport layer services and protocols.	Analyzing
		PC602CS.5	Comprehend the functionality of application layer	Understanding
		PC602CS.6	Identify the basic security threats of a network and different types of encryption techniques	Applying
Design And Analysis of Algorithms	Mr P V Ramanaiah / Mr D Srinivas	PC603CS.1	Analyze a given algorithm and express its time and space complexities in asymptotic notations	Knowledge
		PC603CS.2	Solve recurrence equations using Iteration Method, Recurrence Tree Method and Master's Theorem	Apply,Analyze, Evaluate
		PC603CS.3	design algorithms using Divide and Conquer Strategy.	Apply-Evaluate
		PC603CS.4	compare Dynamic Programming and Divide and Conquer Strategies	Apply-Analyze
		PC603CS.5	solve Optimization problems using Greedy strategy	Understand and Analyze
		PC603CS.6	design efficient algorithms using Back Tracking and Branch Bound Techniques for solving problems	Create
Cloud Computing	Dr Diana Moses / Mr M V D S Krinshna Murthy	PE628CS.1	Outline main concepts of cloud computing	Understanding
		PE628CS.2	Explain the architecture, deployment and delivery models of cloud computing	Understanding
		PE628CS.3	Identify cloud infrastructure mechanisms and specialized mechanisms	Applying
		PE628CS.4	Examine cloud management mechanisms	Analyzing
		PE628CS.5	Explain core issues of cloud computing viz. security, privacy and interoperability	Evaluating
		PE628CS.6	Explain the usage of cloud software environments in cloud services	Evaluating

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Data Mining	Mr D Rajashekhar / Mr U Moulali	PE651CS.1	Define knowledge discovery process and identify different kinds of data that can be mined.	Remember
		PE651CS.2	Organize and Prepare the data needed for data mining using prepreprocessing techniques	Understand
		PE651CS.3	Understand association rules for mining frequent patterns.	Analyse
		PE651CS.4	Apply Eager & Lazy Classification methods and estimate accuracy of different models.	Create
		PE651CS.5	Distinguish clustering algorithms and evaluate the performance.	Evaluate
		PE651CS.6	Explore recent trends in data mining to solve real world problems	Analyse
Soft Skills and Interpersonal Skills	Mrs I V Sona Lakshmi	OE601EG.1	Train students **identify** effective listening skills required for comprehending and performing the required tasks in Professional Communication	Remember
		OE601EG.2	Enable students to **distinguish** the required speaking skills as per the necessary objective in Professional Communication	Understand
		OE601EG.3	Equip students with appropriate **articulation** – reading, comprehending & summarizing strategies for the prescribed professional assignment	Apply
		OE601EG.4	Develop **organization** of professional writing & publishing varieties of documents and required skills among students	Analyze
		OE601EG.5	Empower the students **assess** the Right Attitude and Coping Techniques required Professionally	Evaluate
		OE601EG.6	Inculcate and **develop** potential skills in the learners to prepare them to deal with the external world in a collaborative manner, communicate effectively, take initiative, think creative, manage stress, solve problems, demonstrate a positive work ethic and facilitate life-long learning	Create

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Compiler Design Lab	Mrs Unnati Mohan / Mr A Rajesh	PC631CS.1	Design Lexical analyzer for given language using LEX tools	Analyze
		PC631CS.2	Generate scanner and parser from formal specification	Create
		PC631CS.3	Generate top down and bottom up parsing tables using Predictive parsing, SLR and LR Parsing techniques	Create
		PC631CS.4	Apply the knowledge of YACC to syntax directed translations for generating intermediate code – 3 address code.	Apply
		PC631CS.5	Apply the code optimization techniques to improve the performance of a program .	Apply
		PC631CS.6	Generate machine code from the intermediate code forms	Create
Computer Networks Lab	Mrs G Saritha / Mrs B Sowjanya	PC632CS.1	Use various networking Commands like tcpdump , netstat, ipconfig, nslookup, FTP, TELNET and traceroute	Applying
		PC632CS.2	Implement Iterative and concurrent servers using TCP and UDP.	Creating
		PC632CS.3	Analyze the performance of various network protocols using various simulation tools(NS2/NS3/Cisco Packet tracer)	Analyzing
		PC632CS.4	Analyze the performance of various routing algorithms using network simulator tools.	Analyzing
		PC632CS.5	Develop programs using Raw Sockets	Creating
		PC632CS.6	Implementation of various Programs using Remote Procedure calls	Creating
Design And Analysis of Algorithms Lab	Mr P V Ramanaiah / Mr D Srinivas	PC633CS.1	Design an algorithm in a effective manner	Create
		PC633CS.2	Design & Apply iterative and recursive algorithms.	Create,Apply
		PC633CS.3	Design & Implement Problems using Divide and conquer strategy.	Create,Apply
		PC633CS.4	Design & Implement Problems using Greedy strategy.	Create,Apply
		PC633CS.5	Design & Implement Problems using Dynamic Programming & backtracking strategy.	Create,Apply
		PC633CS.6	Design & Implement Problems using Brute Force strategy. and network flow algoritms	Create,Apply

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COURSE OUTCOMES		VIII SEMESTER		AY:2021-22
Course Name	**Faculty Name**	**CO / PO**	**Course Outcomes**	Taxonomy
Cyber Security & Forensics	Mrs G Saritha / Dr. Shruthi Sk	PE829CS.1	Explain the fundamentals of cyber security and its applicability to operational and organisational security problems in the real world.	Understanding
		PE829CS.2	Identify the different types of cybercrimes, cyber attacks, and cyber laws	Applying
		PE829CS.3	To effectively defend against cyber attacks and have a thorough understanding of how to secure the broader internet community from such attacks.	Evaluate
		PE829CS.4	Predict the intent behind cybercrime and its effects on wireless and mobile devices.	creating
		PE829CS.5	Apprehend the knowledge of fundamentals of computer forensics	Understanding
		PE829CS.6	Develop a forensic examination of a hacked system and information/network security professionals	Creating
Project Work – II	Mr. T. Praveen Kumar / Mr P V Ramanaiah	PW861CS.1	Demonstrate the ability to apply the knowledge and skills acquired in the academic program to the real-world problems	Understanding
		PW861CS.2	Evaluate different solutions based on feasibility study	Evaluating
		PW861CS.3	Effectively plan a project.	Analyzing
		PW861CS.4	Demonstrate effective written and oral communication skills	Understanding
		PW861CS.5	Undertake problem identification, formulation and execution	Creating
		PW861CS.6	Plan, analyze, design,implement and test a software project .	Creating

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Road Safety Engineering	Mr Bharat Nayak	OE801CE.1	Demonstrate about road accidents and its study objectives. Prepare accident investigation reports and database based on data collected.	Understanding
		OE801CE.2	Apply design principles for roadway geometrics improvement with various types of traffic safety appurtenances/tools	Applying
		OE801CE.3	Explain the road safety design operations, counter measures & characteristics to manage traffic including incident management	Understanding
		OE801CE.4	Illustrate the concept of Road Safety Auditing its principles, procedures and code of good practice and checklists	Understanding
		OE801CE.5	Explainabout design and working principles of road signs and traffic signals	Understanding
		OE801CE.6	Describe applications of ITS in effectively managing the traffic incidents.	Understanding

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