Department of Computer Technology Course Objectives and Course Outcomes Session 2023-24

	Sr. No.	Course Code	Subject	Course Objectives	Course Outcomes- Upon successful completion of the course students will be able to:
				Semester III (2022 So	DE)
	1	22CT301	Discrete Maths and	To use mathematically correct terminology and notation.	Analyze and express logic sentence in terms of predicates, quantifiers, and logical connectives.
				To construct correct direct and indirect proofs.	Derive the solution for a given problem using deductive logic and prove the solution based on logical inference.
			Probability Theory	To use division into cases in a proof.	Classify algebraic structure for a given mathematical problem.
				To apply logical reasoning to solve a variety of problems.	Perform combinatorial analysis to solve counting problems.
				To understand Internal working of Computer System, its basic principles & execution of machine instructions To describe basic processor design using	Apply the fundamental knowledge to understand the functionality of computer system for CPU, Control Unit, Memory, IO and Storage.
			Computer Architecture and	Hardwired and micro programmed control	Analyze the execution of complete instruction, arithmetic and processor design.
	2	22CT302	Organisation	To observe organization of main memory, cache memory.	Design of adders, ALU and Memory management unit, Organization of memory, memory hierarchy, other peripheral devices, and estimate the cost of computation.
				To know Various ways in which I/O operations are performed.	
				The database management system,	Understand database management system, through
		22677202.2	Database Management	The mathematical representation of the database operations.	Apply the knowledge of relational algebra and query language to perform the operations on database
	3	22CT303,2 2CT304	Systems,Database Management Systems Lab	The query language to maintain and extract the data from database.	Apply the knowledge of database concepts to perform the transaction and concurrency control
				The database design, maintenance and operational issues	Design database using the entity relation diagrams and relational database aspects.
				Understand the concept of object-oriented Have an appreciation of the object-oriented	Understand the concept of object-oriented
	4	22CT305,2 2CT306	Object Oriented Programming,Object Oriented Programming Lab	programming concepts like reusability of code, inheritance, abstraction, and polymorphism	Apply the knowledge of object-oriented programming to solve the given problem.
3				Gain an understanding of generic components and how to handle the I/O stream classes	Apply the advanced programming concepts of OOP to solve the given problem
				Develop an understanding of MVC architecture and how to build the event driven solution of the problem	Design the event driven web based solution for the problem.
		22CT307		Various programming frameworks in Python	Select relevant framework for python programming.
	_		Lab: Python Programming	Syntax of various data structures and their operation along with control statements in Python	Write python programs using various data structures and control statements.
	5			Concepts of file handling, classes and objects	Demonstrate skills for effective usage of file handling and concepts of classes and objects.
				Various packages inbuilt in Python along with their usages	Develop advanced applications using functionalities provided under various packages in Python.
	6	6 22CT309		Understand how to apply technical information and knowledge in practical documents for a variety of professional audiences and public audiences.	Plan and write communications that solve technical problems or help readers make decisions about technical problems and solutions
			22CT309 Lab: Technical Writing	Practice the unique qualities of professional writing style, including sentence conciseness, readability, clarity, accuracy, honesty, avoiding wordiness or ambiguity, previewing, using direct order organization, objectivity, unbiased analyzing, summarizing, coherence and transitional devices.	Prepare documents that are well-planned, researched, drafted, and designed
				Collect, analyze, document, and report research clearly, concisely, logically, and ethically; understand the standards for legitimate interpretations of research data within scientific and technical communities.	Collect and report information thoroughly and accurately
				Develop professional work habits, including those necessary for effective collaboration and cooperation with other students, instructors, and Service	Communicate ethically and with sensitivity to diverse audiences

			Semester IV (2022 S	oE)
			To provide knowledge about the services rendered by operating systems.	Describe the different services provided by Operating System at different level.
7	22CT403, 22CT404	Operating Systems,Operating Systems Lab	To understand the concept of different operating system algorithms for problem solving.	Apply knowledge of different operating system algorithms to solve a given problem.
	2201404		To understand the different methods of evaluation of operating system algorithms.	Analyze various approaches used to improve system performance.
			To understand various file-system design and implementation issues.	Differentiate various disk scheduling algorithms base on their performances.
			The architecture and principles of today's computer networks	Understand design issues of layers and network reference model
	22.05.400.2	Computer	The protocols and their functionalities	Solve the given problems related to networking domain.
8	22CT408,2 2CT409	Networks,Computer Networks Lab	The requirements for the future Internet and its impact on the computer network architecture.	Analyze different networking protocol at various layers
				Evaluate the performance of network using different tools
	22CT405	Theoritical Foundations of Computer Science	To introduce students to the mathematical foundations of computation including automata theory, regular languages.	Construct automata, regular expression for any pattern.
9			To understand of different types of grammars and the properties of Context Free Grammar	Construct context free grammar for various languages.
			To study the concepts of Push Down Automata and Turing machine.	Construct push down automata and Turing Machine for a language.
			To understand decidable and un-decidable problems.	Evaluate and justify whether a problem is decidable or not.
		Mathematical Foundations for Data Analysis,Mathematical Foundations for Data Analysis Lab	Basis of statistics and linear algebra.	Apply different visualization, summarizing technique and linear algebra to given data for its interpretation
	22CT406,2 2CT407		Concepts of probability, probability distribution and random variables	Solve given problem using the probability theory, random variables and apply the concept to Bayes Theorem
10			Concepts of sampling, sampling distribution, estimation and regression analysis	Perform sampling distribution to estimate the given data and predict the analysis using regression.
			To find expected values and test the goodness of fit.	Formulate and test a hypothesis, using critical value to draw conclusions and determining probability of making errors in hypothesis tests.
			To define steps of testing of hypothesis.	
			To differentiate between parametric and non-parametric tests	
	22CT410	0 Lab: Web Technology	Working of internet technology.	Understand various internet technologies
11			Designing dynamic webpages.	Design the web pages using HTML and CSS
			The structure of XML.	Implement the XML technology to store the data
			The advance technique for designing the	Develop the interactive web pages using JavaScript
			interactive web page	pages assignation per

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tools CT2313						
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Lab models. They will explore metrics like accuracy, precision, recall, and F1 score, and learn how to use techniques like cross-validation and train-test splits for model validation. CT2315, CT2316						
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CT2315, CT2316					and learn how to use techniques like cross-	
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metadata, spatial data, spatial analysis, and PE1: Introduction to new trends in GIS. projections and spatial data formats for creatic geodatabase.						
PE1: Introduction to new trends in GIS. geodatabase.						
					About map creation.	Understand the procedure of map creation and
17 CT2218 System, introduction to analysis of spatial data using GIS.						analysis of spatial data using GIS. Apply knowledge of GIS and conduct experiments using
						GIS tools to create maps and make an effective report
to communicate.						to communicate.
						Analyse and investigate various GIS problems and
report in a team.						develop a solution using the GIS tool and submit a report in a team.
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				Semester VI (SoE 2020	
				To introduce different asymptotic notations.	Compare different types of asymptotic notations and find the time complexity in terms of asymptotic notations
				To understand mathematical principles of algorithm analysis	Solve recurrences using various techniques.
	18	CT2351, CT2352	Design & Analysis of Algorithms, Design & Analysis of Algorithms Lab	To understand various algorithm design strategies like divide and conquer strategy, greedy strategy, dynamic programming strategy and backtracking strategy.	Implement divide and conquer strategy, greedy strategy, dynamic programming algorithms and backtracking strategy
				To comprehend various complexity classes like P, NP, NP-complete and NP-Hard.	Identify and differentiate between various types of complexity classes.
				To study the structure of Compiler and FLEX tool for generating lexical analyzer	Design lexical analyzer using FLEX tool
				To explore top down, Bottom up parsing approaches and YACC tool for generating syntax analyzer	Implement syntax analyzer using YACC tool
	19	CT2353, CT2354	Language Processor,Language Processor Lab	To understand Syntax Directed Translation Scheme	Create a syntax-directed definition and an annotated parse tree
			Processor Lab	To introduce Symbol Table Management and Error Detection and Recovery with respect to all phases of compilation	Demonstrate the use of a symbol table throughout compilation
				To understand Code optimization and Code generation techniques	Apply various code optimizing transformations and code generation techniques
	20	CT2355, CT2356		software engineering best practices and different strategies applicable for software development, software requirement and its design activity.	Study software engineering best practices and different strategies applicable for software development, software requirement and its design activity.
				explore the various testing types and its strategies	Explore the various testing types and its strategies.
				configuration management, version control and change control process of Software development	Understand configuration management, version control and change control process of Software development
				project management, planning, scheduling, risk management, project and process metrics	Understand project management, planning, scheduling, risk management, project and process metrics.
				overview of open source Software Engineering tool viz. Subversion and understand some concepts such as Re- engineering and Reverse engineering	Get an overview of open source Software Engineering tool viz. Subversion and understand some concepts such as Re-engineering and Reverse engineering
		CT2361, CT2352		To Explore image enhancement techniques in spatial domain and frequency domain	Describe Basic relationships between pixels
				To Understand the fundamental concept of image compression	Compare various image enhancement techniques in spatial domain and frequency domain
	21			To Study various similarity based, and dissimilarity-based image segmentation approaches	Illustrate different image compression techniques to understand the advantage of image compression
				To Understand the basic concepts of image representation and description	Demonstrate the applications of similarity based and dissimilarity-based approaches for image segmentation
	22	CT2367, CT2368	I PE II: INI PI ah INI P	To understand basic aspects of Natural	Interpret various representation techniques
				languages used in processing of text	Describe linguistic phenomena with formal grammars
				To get acquainted with the basic concepts and algorithmic description of the main levels of language levels: morphology, syntax, semantics, and pragmatics	Illustrate and test algorithms for NLP problems
				To Learn the mathematical and linguistic foundations	Examine NLP applications
				To appreciate underlying approaches for the various areas in NLP	Devise real world NLP applications using NLP techniques

				Semester VII (SoE 20)	20)
				To understand fundamental concepts in Artificial Intelligence, its applications, techniques, related fields, and different types of AI agents	Understand the fundamentals of AI to identify performance measures for a given intelligent agent
	23	CT2401, CT2402	Artificial Intelligence,Lab: Artificial Intelligence	To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction)	Apply searching techniques for problem-solving and planning
				To understand fundamental knowledge of different knowledge representation approaches	Apply different knowledge representation techniques on given facts
				To comprehend AI planning and scheduling operations.	Solve AI problems using the techniques of uncertainty
				Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them.	Identify threats to network security, associated attacks and countermeasures against attack.
	24	CT2403	Network Security	Study cryptographic mathematics to solve network security problems.	Use appropriate mathematical techniques in cryptography
				Study of various cryptographic algorithms.	Apply various algorithms/ mechanisms to formulate appropriate solution.
				Understand different security protocols at various layers of network model.	Use of different security protocols at various networking layers.
				Understand the fundamentals of biological neural network and artificial neural network	Understand the fundamentals of Artificial Neural Network and Fuzzy Logic
	25	CT2411	PE III: Neural Network and	Understand the architecture of feed forward and feed backward neural networks and related learning rules	Apply the concepts of Artificial Neural Network and Fuzzy Logic for the given scenario
	25	C12411	Fuzzy Logic	Understand the operations and properties of classical crisp set and fuzzy set theory with arithmetic operations	Design single layer and multilayer neural networks for the given problem definition
				Understand defuzzification methods used in fuzzy controller system	
-	26	CT2412	PE III: ADHOC Wireless Network	Understand the various design issues and challenges in the layered architecture of Ad hoc wireless networks	Understand the issues and challenges in design of wireless ad hoc networks.
				Study security aspect of communication in ad hoc network	Analyze proposed protocols at MAC and routing layers of ad hoc networks.
_				Understand Quality of Service and energy management techniques in Ad-hoc network	Analyze attacks pertaining to network layer.
					Evaluate the energy management schemes and Quality of service solution in ad hoc networks
	27		PE III: Business Intelligence	The different concepts of business intelligence.	Understand the basic concepts of Business Intelligence, digital data types, multidimensional modelling and its applications in different technology domain.
				The process to design the Multidimensional data model.	Apply the ETL process to absorb the data in MDDM.
				The business processes assessment concepts and its representation using reports.	Analyze the data to identify digital data types and multidimensional schema.
				The BI applications in different technology domains.	Design the MDDM and reports using the business concepts.
		CT2425	PE IV: Machine Learning,Lab Machine Learning	The concepts of machine learning and the relative strengths and weaknesses of different machine learning methods.	Understand the fundamental principles of machine learning and design methods
7				The concept of different type of machines learning and how to apply a learning algorithms to sample	Apply various machine learning algorithms on a given problem and interpret the results.
	28			The different methods of evaluation of machine learning algorithms	Evaluate the performance of various machine learning algorithms on different datasets of a domain
				Different ensembling methods and new techniques.	Implement various machine learning algorithms on a given dataset using modern tools and write a report.
					Formulate machine learning problems through investigation and analysis of data to design a solution.
	29		PE IV: JAVA Full Stack,JAVA Full Stack Lab	The concepts related to advance Java features, database connectivity	Understand all the components and processes of Java Full stack web development and application deployment on cloud
				The techniques to create the user interface for application	Apply the concepts related to OOP, advance Java features and database connectivity Apply the techniques to create the user interface for
				The deployment of application on cloud The different tools to develop the complete	application. Apply the different tools to develop the software
				software	solution

			C# concepts using .NET Framework.	Understand the concepts of C#, LINQ, ASP, MVC Controller using .NET Framework along with Coding Principle, DevOps, Docker.
20		PE IV: .NET Full Stack,.NET Full Stack Lab	LINQ, SQL Sever, DataBase Object concepts for .NET Framework.	Apply the concepts of C#, LINQ, ASP, MVC Controlle using .NET Framework for application development
30			Role of MVC to manage the relationship between the user interface and underlying data.	Implement the concepts of C#, LINQ, ASP, MVC Controller using .NET Framework.
			ASP.NET for building modern web apps and services that run on macOS, Linux, Windows, and Docker.	Design various applications using .NET framework.
			The basic concepts of distributed systems and cloud computing.	Understand the techniques, tools, skills in a secure cloud environment.
			The concepts, characteristics, delivery models and benefits of cloud computing.	Apply distributed computational model and understand the need for cloud computing.
31	CT2435	PE V:Cloud Computing	Some important cloud computing driven commercial systems and applications.	Analyze the need for virtualization in a cloud environment and apply it in compute, memory and storage levels.
			Frontier areas of Cloud Computing and information systems, while providing sufficient foundations to enable further study and research.	Design a cloud-based system, process, component, program to meet desired needs.
33 33		PE V: Data Mining	The concepts related to data preparation, data modeling, and knowledge extraction	Understand the concepts related to data preparatidata modeling, and knowledge extraction
			The techniques for data pre-processing and modeling for knowledge extraction	Apply the techniques for data pre-processing and modeling for knowledge extraction
			The Supervised and unsupervised data mining concepts for knowledge extraction	Apply the supervised and unsupervised data minin techniques for knowledge extraction
				Analyze the data to apply appropriate data modeling and mining technique.
			Concept of the Embedded Systems surrounding them	Understand the concept of Embedded System design process and different Applications of Embedded system.
		PE V:Embedded Systems	Types of processors & architectures used and design concepts used in Embedded System	Understand the use of software development tools and debugging technologies.
			Concepts of Real Time Operating System, Mobile Operating System	Understand real- time operating systems from embedded and other operating systems
			Different types of instruction sets for developing Embedded System	Understand the architectural support of ARM processor, function of memory management, instruction set of ARM controller.
	CT2409	72409 Mini Project	Develop their own ideas	Identify real life technical problem, conduct literatus urvey, and find limitations in existing solutions to address societal and industrial concerns.
			Interact with outside world	Analyze the problem and identify suitable tools and technologies for finding solution to the problem.
			Work in a group in a collaborative and productive manner	Communicate proposed solution effectively with proper presentation methods.

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				Semester VIII (SoE 20	20)
		CT2451		To apply knowledge of mathematics, science and engineering in a global, economic, environmental and societal context and engage in life-long learning.model	Acquire the domain knowledge and analyze the implemented model
				To design a model, a system or components considering environmental, economic, social, political, ethical and sustainability and analyze and interpret the data.	Design and develop the solution using appropriate tools and techniques for betterment of society and industry
8	35		1 Major Project	To work on multidisciplinary teams, tackle engineering problems, understand professional and ethical responsibility and communicate effectively.	Communicate the work done through paper presentation or participation in competition as a team.
				To apply knowledge of contemporary issues and use the techniques, skills, and modern engineering tools necessary for engineering practices.	
				To analyze and design RCC & steel structures, draw and prepare cost estimates of civil engineering structures.	
				To expose to culture and tradition.	An ability to work initially as well as part of team to achieve set goals.
	36	6 CT2452	CT2452 Extra curricular Activity Evaluation	To provide opportunity for student to perform and present their hidden talent, still and art.	Develop his hobbies and interests
				To nurture hobbies.	Communicate and work in team
				To organize co-curricular activities to make competitive spirit, cooperation, leadership, diligence, punctuality, team spirits.	Develop the sense of responsibility
				To develop creative talent, self-confidence, sense of achievement.	
				To be able to design process on environmental, social, political, ethical, health and safety.	