Department of Computer Technology Course Objectives and Course Outcomes Session 2022-23

Sr. No.	Course Code	Subject	Course Objectives	Course Outcomes
			G WY (2010 2010 G T)	Upon successful completion of the course students will be able to:
		T	Semester III (2018-2019 SoE) Estimate the Calculus of Numerical Function.	Estimate the Calculus of Numerical Function.
1		Engineering Mathematics-III	Determine the transforms and inverse transforms of various functions of variables and use it to solve	Determine the transforms and inverse transforms of various functions of variables and use it to solve Mathematical equations.
	GE2201		Mathematical equations. Discuss the nature of periodic function and express it in terms of series.	Discuss the nature of periodic function and express it in terms of series.
			Use appropriate method/s to solve partial differential equations.	Use appropriate method/s to solve partial differential equations.
			Implement given problem using various programming construct. logic needed for solving given problem.	Apply the basic concepts of language constructs for problem solving
2			Elaborate various abstract data types through implementation.	Demonstrate the use of loops, arrays, functions, recursion and structures for problem solving
	CT2204	Data Structures Data	Use dynamic memory allocation functions.	Implement the sorting algorithms and represent given sparse matrix using array
	CT-2205	Structures Lab	Summarize various file handling mechanism	Apply the technique of dynamic memory allocation to solve problems of linked list, and implement various applications of linear data structures
				Implement file operations for data manipulation and storage
			Understand the concept of object-oriented programming and modeling	Understand the concept of object-oriented programming and modelling
3	CT2202 CT2203	Object-Oriented Programming Object-Oriented	Have an appreciation of the object-oriented programming concepts like reusability of code, inheritance, abstraction, and polymorphism	Apply the knowledge of object-oriented programming to solve the giver problem
	C12203	Oriented Programming Lab	Gain an understanding of generic components and how to handle the I/O stream classes	Analyze the problem to provide the object-oriented solution using advanced programming concepts
			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
			To make student aware about various programming frameworks of Python	Select any framework for python programming as per their understanding
4	CT2206	Python Programming	To make student familiar with syntax of various data structures and their operations along with control statements in Python	Write any python program using various data structures and control statements
	C12200		To make students comprehend concepts of file handling, classes and objects	Write program where file handling and concepts of classes and objects are needed
			To make student aware about various packages inbuilt in Python along with their usages	Develop advanced applications using functionalities provided under various packages of python
			To understand Internal working of Computer System, its basic principles & execution of machine instructions	Understand basic functionality of computer system, control unit, Memory, Input- output and storage.
5		Computer Architecture & Organization	To describe basic processor design using Hardwired and micro programmed control unit.	Understand issues involved in the instruction and microinstructions execution and different addressing modes.
	CT-2201		To observe organization of main memory, cache memory.	Understand the different types of Hazards and its mitigation, and working of computer peripherals.
			To know Various ways in which I/O operations are performed.	Apply the arithmetic operations on signed/un-signed integer and floating point operands.
				Apply the concept of memory circuits , organization of memory management and cache memory.
			Introduction to internet technology Study of basic of web page designing and validations	Understand various internet technologies Design the web pages using HTML and CSS
6	CT2207	Web Technology Laboratory	Introduction to the concepts of data storage using XML	Implement the XML technology to store the data
			Learn the advance technique for designing the interactive web page	Develop the interactive web pages using JavaScript
			Semester IV (2018-2019 SoE)	
			To introduce the basic statistical formulae and	Apply different visualization, summarizing techniques and linear
	CT-2255 CT- 2256	Mathematical Foundations for Data 55 CT- Mathematical Foundations for Data Analysis Lab	visualization techniques To comprehend the concepts of probability and	algebra to given data for its interpretation. Solve given problem using the probability theory, random variables and
			probability distribution	apply the concept to Bayes Theorem
			To understand the concepts of sampling, sampling	Perform sampling distribution to estimate the given data and predict the
1			distribution and estimation To understand the concept of hypothesis testing	analysis using regression. Formulate and test a hypothesis, using critical values to draw conclusions and determining probability of making errors in hypothesis
		,		tests. Understand small sample test methods and analyze various methods of
				Non-parametric tests

				To learn different database system concepts	Understand database management system, through modelling and designing concepts
				To learn the designing of Entity Relationship Diagram.	Apply the knowledge of relational algebra and query language to perform the operations on database
2		CT-2257 CT- 2258	Database Management Systems and Lab	To know relational data model, relational algebra & SQL Queries	Apply the knowledge of database concepts to perform the transactional concurrency control
		2236	Systems and Lab	To understand the normalization concepts	Design database using the entity relation diagrams and relational database aspects.
				To learn transaction management, various concurrency	annease aspects.
-				control protocols and crash recovery methods. To Get overview of fundamental data structures and their	Acquire the basic concepts of data structures and select appropriate
				usage	data structures for solving real life problems
		CT 2252		To Explore different operations performed on various data structures	Demonstrate various operations on linked list, skip list and apply appropriate hashing technique on given data.
3	CT-2253 CT-2254		Advanced Data Structures and Lab	To Understand practical implementation of different types of data structures and hashing techniques	Implement different types of trees and graph data structures and u them to solve problems dealing with non-linear data.
				To Comprehend working of advanced data structures like skip list, disjoint set, multidimensional trees and hash	
				table	
\vdash				To Compare different data structures Understand mathematical logic and set theory and	Explain the basic concept of classical sets, fuzzy sets, Relations,
				their methods of solution and graph theory, group	functions and logical methods.
				theory with simple applications and to introduce	
4		GE2206	Discrete Mathematics	the essential concepts of probability and statistics	
4		GE2206	& ProbabilityTheory		Identify the nature of different algebraic structures such as Group
					Ring, field Analyze the graphs and spanning of trees
					Determine the probability, Expectations of functions of two rando variables
				To identify different types of OS & services provided by OS.	Describe the different services provided by operating systems at different level.
			Operating Systems	To infer process management and inter-process communication.	Apply knowledge of different operating systems algorithms to sol- given problem
5		CT2251 CT2252	and Operating Systems Lab	To interpret the deadlock concepts& deadlock avoidance algorithms.	Analyze various approaches used to improve system performance
				To understand the need of memory management.	Differentiate various disk scheduling algorithms based on their performances.
				To classify different file system organization.	periormanees
-		<u> </u>		Semester V (SoE 2018-19_REV SOE) It introduced the concept of economics and provides	Recognizes consumer's behavior and pricing
				knowledge about consumer's rational behaviour.	recognizes consumer a behavior and promig
- 1				This introduced various factors of production and its role in production process, gives idea about short run and long	Extrapolates an operations in market with productions constrain.
				This introduced various factors of production and its role in production process, gives idea about short run and long run production constraint, types of cost and depreciation.	Extrapolates an operations in market with productions constrain.
				in production process, gives idea about short run and long run production constraint, types of cost and depreciation.	
				in production process, gives idea about short run and long run production constraint, types of cost and depreciation.	Extrapolates an operations in market with productions constrain. Describes the national income accounting and public finance.
			Fundamental of	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how	
	1	GE-2312	Fundamental of Economics	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and	
	1	GE-2312		in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its counting with respect to various factors and factors causes	Describes the national income accounting and public finance.
	1	GE-2312		in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its	Describes the national income accounting and public finance.
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		CT2301	Economics Computer Networks	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its counting with respect to various factors and factors causes to economic growth and development. Provide knowledge of functioning of money, financial institution and various sources of public finance/revenue and its types. To provide knowledge about international economics, foreign trade and its agreement, export, foreign exchange and the various international financial institution. The architecture and principles of today's computer networks The protocols and their functionalities	Describes the national income accounting and public finance. Interprets international trade and institutions. Understand design issues of layers and network reference model Solve the given problems related to networking domain.
	2		Economics	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its counting with respect to various factors and factors causes to economic growth and development. Provide knowledge of functioning of money, financial institution and various sources of public finance/revenue and its types. To provide knowledge about international economics, foreign trade and its agreement, export, foreign exchange and the various international financial institution. The architecture and principles of today's computer networks The protocols and their functionalities The requirements for the future Internet and its impact on	Describes the national income accounting and public finance. Interprets international trade and institutions. Understand design issues of layers and network reference model
		CT2301	Economics Computer Networks	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its counting with respect to various factors and factors causes to economic growth and development. Provide knowledge of functioning of money, financial institution and various sources of public finance/revenue and its types. To provide knowledge about international economics, foreign trade and its agreement, export, foreign exchange and the various international financial institution. The architecture and principles of today's computer networks The protocols and their functionalities The requirements for the future Internet and its impact on the computer network architecture.	Describes the national income accounting and public finance. Interprets international trade and institutions. Understand design issues of layers and network reference model Solve the given problems related to networking domain. Analyze different networking protocol at various layers Evaluate the performance of network using different tools
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	2	CT2301 CT2302	Economics Computer Networks and Lab Theoretical	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its counting with respect to various factors and factors causes to economic growth and development. Provide knowledge of functioning of money, financial institution and various sources of public finance/revenue and its types. To provide knowledge about international economics, foreign trade and its agreement, export, foreign exchange and the various international financial institution. The architecture and principles of today's computer networks The protocols and their functionalities The requirements for the future Internet and its impact on the computer network architecture. To introduce students to the mathematical foundations of computation including automata theory, regular languages	Describes the national income accounting and public finance. Interprets international trade and institutions. Understand design issues of layers and network reference model Solve the given problems related to networking domain. Analyze different networking protocol at various layers Evaluate the performance of network using different tools Construct automata, regular expression for any pattern.
		CT2301	Computer Networks and Lab Theoretical Foundation of	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its counting with respect to various factors and factors causes to economic growth and development. Provide knowledge of functioning of money, financial institution and various sources of public finance/revenue and its types. To provide knowledge about international economics, foreign trade and its agreement, export, foreign exchange and the various international financial institution. The architecture and principles of today's computer networks The protocols and their functionalities The requirements for the future Internet and its impact on the computer network architecture. To introduce students to the mathematical foundations of computation including automata theory, regular languages To understand of different types of grammars and the properties of Context Free Grammar	Describes the national income accounting and public finance. Interprets international trade and institutions. Understand design issues of layers and network reference model Solve the given problems related to networking domain. Analyze different networking protocol at various layers Evaluate the performance of network using different tools Construct automata, regular expression for any pattern. Construct context free grammar for various languages.
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	2	CT2301 CT2302	Computer Networks and Lab Theoretical Foundation of	in production process, gives idea about short run and long run production constraint, types of cost and depreciation. It provide knowledge to the students about various market structure, demand and revenue curves in it, How price and output determine in various forms of market and how price discriminate for consumer to consumer. It gives knowledge about various national products, its counting with respect to various factors and factors causes to economic growth and development. Provide knowledge of functioning of money, financial institution and various sources of public finance/revenue and its types. To provide knowledge about international economics, foreign trade and its agreement, export, foreign exchange and the various international financial institution. The architecture and principles of today's computer networks The protocols and their functionalities The requirements for the future Internet and its impact on the computer network architecture. To introduce students to the mathematical foundations of computation including automata theory, regular languages To understand of different types of grammars and the properties of Context Free Grammar To study the concepts of Push Down Automata and Turing machine To understand decidable and undecidable problems Overview the Fundamental concepts of Digital Image Processing	Describes the national income accounting and public finance. Interprets international trade and institutions. Understand design issues of layers and network reference model Solve the given problems related to networking domain. Analyze different networking protocol at various layers Evaluate the performance of network using different tools Construct automata, regular expression for any pattern. Construct context free grammar for various languages. Construct push down automata and Turing Machine for a language Evaluate and justify whether a problem is decidable or not.

6 7 8 8	CT2331 CT2334 OE-1:- CT2328 CT2313 CT2314	OE II: Soft Computing OE II:Multimedia and Animation Operating System Concepts	Study of various similarity based, and dissimilarity-based image segmentation approaches Understand the basic concepts of image representation and description Understand the applications of soft computing in various domains. Have an appreciation of Fuzzy logic and its applications Gain an understanding of Rough Set theory and its usage as soft computing Develop an understanding ofsingle-objective optimization problems using gas. Introduce artificial neural networks and its applications. Gain fundamental knowledge of multimedia Understand the technologies in multimedia &animation Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	Demonstrate the applications of similarity based and dissimilarity-base approaches for image segmentation Interpret various representation techniques Review applications of soft computing to solve problems in varieties o application domains Demonstrate Fuzzy logic and its applications Explain Rough Set theory and its usage as soft computing Relate single-objective optimization problems using GAs. Describe Artificial neural networks and its applications Understand multimedia basics - hardware and software Apply skills of designing, illustration, image manipulation, graphic designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
7	CT2334 OE-1:- CT2328 CT2313	OE II:Multimedia and Animation Operating System Concepts	Understand the basic concepts of image representation and description Understand the applications of soft computing in various domains. Have an appreciation of Fuzzy logic and its applications Gain an understanding of Rough Set theory and its usage as soft computing Develop an understanding of single-objective optimization problems using gas. Introduce artificial neural networks and its applications. Gain fundamental knowledge of multimedia Understand the technologies in multimedia &animation Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	Interpret various representation techniques Review applications of soft computing to solve problems in varieties o application domains Demonstrate Fuzzy logic and its applications Explain Rough Set theory and its usage as soft computing Relate single-objective optimization problems using GAs. Describe Artificial neural networks and its applications Understand multimedia basics - hardware and software Apply skills of designing, illustration, image manipulation, graphic designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
7	CT2334 OE-1:- CT2328 CT2313	OE II:Multimedia and Animation Operating System Concepts	and description Understand the applications of soft computing in various domains. Have an appreciation of Fuzzy logic and its applications Gain an understanding of Rough Set theory and its usage as soft computing Develop an understanding of single-objective optimization problems using gas. Introduce artificial neural networks and its applications. Gain fundamental knowledge of multimedia Understand the technologies in multimedia &animation Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	Review applications of soft computing to solve problems in varieties of application domains Demonstrate Fuzzy logic and its applications Explain Rough Set theory and its usage as soft computing Relate single-objective optimization problems using GAs. Describe Artificial neural networks and its applications Understand multimedia basics - hardware and software Apply skills of designing, illustration, image manipulation, graphic designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
7	CT2334 OE-1:- CT2328 CT2313	OE II:Multimedia and Animation Operating System Concepts	domains. Have an appreciation of Fuzzy logic and its applications Gain an understanding of Rough Set theory and its usage as soft computing Develop an understanding of single-objective optimization problems using gas. Introduce artificial neural networks and its applications. Gain fundamental knowledge of multimedia Understand the technologies in multimedia &animation Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	application domains Demonstrate Fuzzy logic and its applications Explain Rough Set theory and its usage as soft computing Relate single-objective optimization problems using GAs. Describe Artificial neural networks and its applications Understand multimedia basics - hardware and software Apply skills of designing, illustration, image manipulation, graphic designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
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7	OE-1:- CT2328	Animation Operating System Concepts	Introduce artificial neural networks and its applications. Gain fundamental knowledge of multimedia Understand the technologies in multimedia &animation Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	Understand multimedia basics - hardware and software Apply skills of designing, illustration, image manipulation, graphic designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
7	OE-1:- CT2328	Animation Operating System Concepts	Gain fundamental knowledge of multimedia Understand the technologies in multimedia &animation Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	Understand multimedia basics - hardware and software Apply skills of designing, illustration, image manipulation, graphic designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
7	OE-1:- CT2328	Animation Operating System Concepts	Understand the technologies in multimedia &animation Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	Apply skills of designing, illustration, image manipulation, graphic designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
7	OE-1:- CT2328	Animation Operating System Concepts	Learn the basics of animation To understand the concepts of Linux and its potential To get a knowledge of shells	designing, video editing, visual effects, and game designing to create multimedia projects. Apply the principals and concepts of animation to create animation using animation software.
	CT2328	Operating System Concepts	To understand the concepts of Linux and its potential To get a knowledge of shells	Apply the principals and concepts of animation to create animation using animation software.
	CT2328	Concepts	To get a knowledge of shells	
	CT2328	Concepts	To get a knowledge of shells	Use LINUX operating system
8	CT2313	-		Write Shell scripts
8		PE I Mobile Operating	Understand different Mobile Operating Systems and to	Understand the different flavors of mobile operating system and their
8		IPE I Mobile Operating	learn the Android platform architecture.	specific features.
	CT2314	Systems/ Mobile	To have basic requirement & different controls for design & development of mobile app.	Design an application using different controls.
	Ī	Operating Systems	Gain an understanding data management & inter	Design an application which can manage data and can communicate
		Lab	application communication. To learn application configuration & publishing.	with native application. Design and publish an application which can handle multiple devices
			10 team approauon configuration & publishing.	with different configurations
			To get an overview of fundamental concepts of GIS, applications and study	Understand various fundamental concepts of GIS and new trends in GIS
ŀ		Introduction to Geographical Information System / Lab	To explore the Coordinate Systems, Map Projections	Understand the concepts of coordinate systems, map projections and
	CT 2317 CT 2318		metadata, spatial data, spatial analysis and new trends in GIS	spatial data formats for creation of geodatabase
9			To comprehend the Making and sharing of maps	Understand the procedure of map creation and analysis of spatial dat using GIS.
				Apply knowledge of GIS and conduct experiments using GIS tools to create maps and make an effective report to communicate.
				Analyze and investigate various GIS problems and develop a solution
				using the GIS tool and submit a report in a team.
		OE II: Software	Understand Software testing fundamentals/principles. Learn systematic approach to software testing using	Formulate problem by following Software testing life cycle. Design Manual Test cases for Software Project.
10	CT2332	Testing	strategies.	Design Wandar Test cases for Software Project.
		_	Explore Methods and tools of testing software.	Demonstrate utilization of testing automation though testing tool.
		PE I: Advanced Web	To learn basic aspects of Web services, Server side scripting, Advanced CSS	Describe various concepts related to web site
11	CT2315/	Technologies/	To introduce with AJAX	Apply the concepts used for web page designing
	CT2316	Advanced Web Technologies Lab	To learn Basics of Advanced Client side programming	Create web pages and web sites
		Technologies Lab	To learn JavaScript	Develop Web pages using JavaScript
			To learn basic aspects of computer graphics	Draw lines and polygons and fill polygons using basic graphics
			To learn aspects of visual communication and understand	functions Select proper imaging technology to be used for image creation
12	CT2319	PE I :Computer	presentation issues in computer graphics	1 F
	/CT2320	Graphics	To learn interactive handling of images and text	Handle interactive software with images & text
			To understand computer animation and design animation	Develop animated programs for various applications
			program Gain fundamental knowledge of electronic communication	Use the basics of internet for deployment of various servers and
		OE	Understand the technologies in Internet, e-Technologies &	recourses Design and implement technologies for e-Commerce and e-Learning
13	l I	II:CurrentTrendsand Technologies	e-Learning	
			Learn the basics of Green Computing and its implementation in industries	Choose appropriate implementation of Green Computing
			Develop the understanding of concepts in Social Media	Make use of Social Networking properly and securely
	CT2323/CT2	PE I : Privacy and Security in Online Social Networks (PSOSN)	To learn the use of different API's and tools for collecting	Collect online social networking data using different tools and API's
			online social networking data To understand privacy and policies for online social media	Review privacy and policies in social media
14			To understand eCrimes and Attacks in online social media	Categorize eCrimes and Attacks in OSM
			To learn profile linking on online social media	Link profiles of user on OSM Provide students an insight regarding internal working of companies
15	CT 2310	Ind Visit and Report		a team Understanding of project and product management
		•		Understand the importance of communication, and employment
			To understand basic concepts of probability calculus in	practices Apply basic concepts of probability calculus in algorithmic context
			algorithmic context	
		Randomized	To analyze the expected running time of simple	Derive good upper bounds for the expected running time of simple randomized algorithms

	.6	CT2311	Randomized Algorithms Lab	To understand simple randomized algorithms that run fast or that return the correct output with high probability	Design simple randomized algorithms that run fast or that return the correct output with high probability
				To study the probabilistic method to show the existence of certain combinatorial objects	Apply the probabilistic method to show the existence of certain combinatorial objects
\neg				Semester VI (SoE 2018) To Understand different asymptotic notations	Compare different types of asymptotic notations and find the time
				To Have an appreciation of different mathematical	Complex united the state of asymptotic notations and that the line complexity in terms of asymptotic notations Solve recurrences using various techniques.
		CT2351/ CT2352	Design & Analysis of	principles of algorithm analysis	Bolive recurrences using various techniques.
1			Algorithms/ Design &	To Gain an understanding and apply various algorithm	Implement and analyze different algorithms like divide and conquer
	L		Analysis of Algorithms Lab	design strategies like divide and conquer strategy, greedy strategy, dynamic programming strategy and backtracking strategy	strategy, greedy strategy, dynamic programming algorithms and backtracking strategy
L				To understand various complexity classes like P, NP, NP-complete and NP-Hard	Compare different types of complexity classes and categories algorithms into specific complexity class
				To Study software engineering best practices and different	Study software engineering best practices and different strategies
			strategies applicable for software development, software requirement and its design activity.	applicable for software development, software requirement and its design activity.	
				To Explore the various testing types and its strategies	Explore the various testing types and its strategies.
				To Understand configuration management, version control	Understand configuration management, version control and change
		CT2355 /	Software Engineering	and change control process of Software development	control process of Software development
2	2	CT2356	/ Lab	To Understand project management, planning, scheduling,	Understand project management, planning, scheduling, risk
				risk management, project and process metrics	management, project and process metrics.
				To Get an overview of open source Software Engineering	Get an overview of open source Software Engineering tool viz.
				tool viz. Subversion and understand some concepts such	Subversion and understand some concepts such as Re-engineering ar
				as Re-engineering and Reverse engineering	Reverse engineering
				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	Implement syntax analyzer using YACC tool
		CT2353/CT	Language Processors /	YACC tool for generating syntax analyzer To understand Syntax Directed Translation Scheme	Create a syntax-directed definition and an annotated parse tree
3	3	2353	Lab	To introduce Symbol Table Management and Error	Demonstrate the use of a symbol table throughout compilation
		2333		Detection and Recovery with respect to all phases of compilation	Zenomente de de di asymbol mod un degliout compilation
				To understand Code optimization and Code generation techniques	Apply various code optimizing transformations and code generation techniques
				The basic aspects of Natural languages used in processing	Understand the basic concepts of natural language processing with
4	ļ	PE- V	Introduction to NLP		Understand the concepts of pragmatics and discourse integration.
		CT2367		The mathematical and linguistic foundations The underlying approaches for the various areas in NLP.	Apply and implement morphology fundamentals and parsing structu
-				To Gain fundamental knowledge of electronic communicat	Apply and implement lexical and semantic analysis for word sense Use the basics of internet for deployment of various servers and
			C		recourses
5	5	CT1352	Current Trends & Technology		Design and implement technologies for e-Commerce and e-Learning
			reemiology	To Learn the basics of Green Computing and its implement	Choose appropriate implementation of Green Computing
_				To Develop the understanding of concepts in Social Media	Make use of Social Networking properly and securely
				To understand basics of algorithm design, object oriented concepts and Java programming fundamentals	Develop algorithm and write pseudo code for a given problem stater
				To understand the database system concepts, relational	Construct Entity-Relationship Model and design RDBMS for a given
_		CT2372	OE:-III Essentials of IT	database design basics and learn SQL for various data	problem statement
6)			operations To understand basics of web page design and Javascript	Design static and dynamic web pages using HTML and Javascript ar
- 1				programming fundamentals To understand software engineering basics and various	write simple programs in Javascript Apply software engineering concepts in any software project
				SDLC phases	implementation
				To realize the concepts and principles of Salesforce CRM	Employ the knowledge of customer-centered organization and
					implement the integral processes within an organization that are
					automated and how does the automation create predictability and
7	,	CT2375	OE:-III: Introduction	To appreciate the role and changing face of Salesforce	efficiencies Represent a customize a CRM application for organization to suit the
7	7	CT2375	OE:-III: Introduction to Salesforce	CRM as an IT enabled function	efficiencies Represent a customize a CRM application for organization to suit th business needs
	,	CT2375		CRM as an IT enabled function To have knowledge of a CRM implementation in aura	efficiencies Represent a customize a CRM application for organization to suit th business needs Determine CRM strategies by understanding customers' preferences
7	1	CT2375		CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an	efficiencies Represent a customize a CRM application for organization to suit th business needs
	7	CT2375	to Salesforce	CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an organization To understand basic aspects of Natural languages used in	efficiencies Represent a customize a CRM application for organization to suit th business needs Determine CRM strategies by understanding customers' preferences
	7		to Salesforce PE II: Introduction to Natural Language	CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an organization To understand basic aspects of Natural languages used in processing of text To get acquainted with the basic concepts and algorithmic	efficiencies Represent a customize a CRM application for organization to suit th business needs Determine CRM strategies by understanding customers' preferences the long-term sustainability of the Organizations
		CT-2367	to Salesforce PE II: Introduction to Natural Language Processing /	CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an organization To understand basic aspects of Natural languages used in processing of text To get acquainted with the basic concepts and algorithmic description of the main levels of language levels:	efficiencies Represent a customize a CRM application for organization to suit th business needs Determine CRM strategies by understanding customers' preferences the long-term sustainability of the Organizations Describe linguistic phenomena with formal grammars
I			to Salesforce PE II: Introduction to Natural Language Processing / Introduction to	CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an organization To understand basic aspects of Natural languages used in processing of text To get acquainted with the basic concepts and algorithmic description of the main levels of language levels: morphology, syntax, semantics, and pragmatics	efficiencies Represent a customize a CRM application for organization to suit the business needs Determine CRM strategies by understanding customers' preference the long-term sustainability of the Organizations Describe linguistic phenomena with formal grammars Illustrate and test algorithms for NLP problems
I		CT-2367	to Salesforce PE II: Introduction to Natural Language Processing /	CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an organization To understand basic aspects of Natural languages used in processing of text To get acquainted with the basic concepts and algorithmic description of the main levels of language levels: morphology, syntax, semantics, and pragmatics To Learn the mathematical and linguistic foundations To appreciate underlying approaches for the various areas	efficiencies Represent a customize a CRM application for organization to suit th business needs Determine CRM strategies by understanding customers' preference the long-term sustainability of the Organizations Describe linguistic phenomena with formal grammars
I		CT-2367	PE II: Introduction to Natural Language Processing / Introduction to Natural Language	CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an organization To understand basic aspects of Natural languages used in processing of text To get acquainted with the basic concepts and algorithmic description of the main levels of language levels: morphology, syntax, semantics, and pragmatics To Learn the mathematical and linguistic foundations To appreciate underlying approaches for the various areas in NLP	efficiencies Represent a customize a CRM application for organization to suit th business needs Determine CRM strategies by understanding customers' preferences the long-term sustainability of the Organizations Describe linguistic phenomena with formal grammars Illustrate and test algorithms for NLP problems Examine NLP applications Devise real world NLP applications using NLP techniques
I		CT-2367	PE II: Introduction to Natural Language Processing / Introduction to Natural Language	CRM as an IT enabled function To have knowledge of a CRM implementation in aura framework by understanding the business case and importance of implementing such a system in an organization To understand basic aspects of Natural languages used in processing of text To get acquainted with the basic concepts and algorithmic description of the main levels of language levels: morphology, syntax, semantics, and pragmatics To Learn the mathematical and linguistic foundations To appreciate underlying approaches for the various areas	efficiencies Represent a customize a CRM application for organization to suit th business needs Determine CRM strategies by understanding customers' preferences the long-term sustainability of the Organizations Describe linguistic phenomena with formal grammars Illustrate and test algorithms for NLP problems Examine NLP applications

		ا ااااالع دها		Apply various IOT enabling technologies for creation of IOT environments
			To Overview the Fundamental concepts of Digital Image Processing	Describe basic relationships between pixels
			To Explore image enhancement techniques in spatial	Compare various image enhancement techniques in spatial doma
			domain and frequency domain	frequency domain
10	CT2373	OE III: Image	To Understand the fundamental concept of image	Illustrate different image compression techniques to understand
		Processing	compression	advantage of image compression
			To Study of various similarity based, and dissimilarity- based image segmentation approaches	Demonstrate the applications of similarity based and dissimilarit approaches for image segmentation
			To Understand the basic concepts of image representation	Interpret various representation techniques
			and description	
			To Understand the applications of soft computing in variou	Review different applications of soft computing to solve problem
		OE IV: Soft		different domains
11	CT2381	Computing	To Have an appreciation of Fuzzy logic and its applications	
			To Gain an understanding of Rough Set theory and its usag To Develop an understanding of single-objective optimizat	
			To Introduce artificial neural networks and its applications	Describe Artificial neural networks and its applications
		OP III G G	To Understand Software testing fundamentals/principles	Formulate problem by following Software testing life cycle
12	CT2382	OE IV: Software	To Learn systematic approach of software testing	Design Manual Test cases for Software testing approaches
		Testing	To Explore methods and tools of testing software	Demonstrate utilization of testing automation though testing tool
			The objective of this course is to endow the student with a	Explain the Legal provision and Functions of Management.
10	GE 2211	FUNDAMENTAL OF	broad perspective on themes and issues of Human	Analyze the role of Human Resource and Financial Management
13	GE: 2311	MANAGEMENT	Resource Management, Human Resource Development,	organization.
			Training and Development activities, Job Analysis,	Analyze the project life cycles. Identify tools and techniques for the marketing of goods and serv
	+		Performance Appraisal, disciplinary and grievance	Describe Basic relationships between pixels
			To Explore image enhancement techniques in spatial	Compare various image enhancement techniques in spatial doma
			domain and frequency domain	frequency domain
	CT2361/CT2	PE II: Digital Image	To Understand the fundamental concept of image	Illustrate different image compression techniques to understand t
14	362	Processing/Digital	compression	advantage of image compression
		Image Processing Lab	To Study various similarity based, and dissimilarity-based	Demonstrate the applications of similarity based and dissimilarity
			image segmentation approaches	approaches for image segmentation
			To Understand the basic concepts of image representation and description	Interpret various representation techniques
	+		To Understand the concepts and principles of Salesforce	Apply the knowledge of customer-centered organization and
			CRM	implement the integral processes within an organization that are
		PE1: Customer		automated and how does the automation create predictability and
		Relationship		efficiencies.
15		Management(CRM)/C	To Appreciate the role and changing face of Salesforce	Analyze business intelligence, cross selling/up selling, customer
13	370	ustomer Relationship	CRM as an IT enabled function	continuous improvement and quality programs that have been the
		Management(CRM)	T. I. I. CDM	and ongoing result of implementing CRM applications.
		Lab	To Implement a CRM using apexin aura framework by	Design and customize a CRM application for organization to suit
			understanding the business caseand importance of implementing such a systemin an organization	business needs
			Semester VII (SoE 2018-19)	
			To understand fundamental concepts in Artificial	
				Develop an understanding to identify performance measures for
			Intelligence, its applications, techniques, related fields and	Develop an understanding to identify performance measures for intelligent agent
			different types of AI agents.	intelligent agent
		A deficient to the	different types of AI agents. To describe different searching algorithms in AI	1 1
	CT2401	Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction)	intelligent agent Apply searching techniques for problem solving and planning
	CT2401 CT2402	Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches	intelligent agent Apply searching techniques for problem solving and planning
			different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa
1		Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning	intelligent agent Apply searching techniques for problem solving and planning
1		Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa
1		Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems.	Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty
1		Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and
1		Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty
1		Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them.	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack.
1	CT2402	Artificial Intelligence Lab	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and
		Artificial Intelligence	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems.	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography.
1 2	CT2402	Artificial Intelligence Lab	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack.
	CT2402	Artificial Intelligence Lab	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems.	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate
	CT2402	Artificial Intelligence Lab	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model.	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers.
	CT2402	Artificial Intelligence Lab	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and
	CT2402	Artificial Intelligence Lab	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack.
	CT2402	Artificial Intelligence Lab Network Security	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and
2	CT 2403 PE-III	Artificial Intelligence Lab Network Security Neural Network &	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography.
	CT2402 CT 2403	Artificial Intelligence Lab Network Security	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks Understand the operations and properties of classical crisp	Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate
2	CT 2403 PE-III	Artificial Intelligence Lab Network Security Neural Network &	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks Understand the operations and properties of classical crisp set and fuzzy set theory with arithmetic operations	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution.
2	CT 2403 PE-III	Artificial Intelligence Lab Network Security Neural Network &	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks Understand the operations and properties of classical crisp	Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate
2	CT 2403 CT 2403 PE-III CT 2411	Artificial Intelligence Lab Network Security Neural Network & Fuzzy Logic	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks Understand the operations and properties of classical crisp set and fuzzy set theory with arithmetic operations Understand defuzzification methods used in fuzzy controller system Understand the design issues and application areas of Ad	intelligent agent Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Compare the differences between cellular and ad hoc networks a
2	CT2402 CT 2403 PE-III CT2411	Artificial Intelligence Lab Network Security Neural Network & Fuzzy Logic Adhoc Wireless	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks Understand the operations and properties of classical crisp set and fuzzy set theory with arithmetic operations Understand the design issues and application areas of Ad Understand design issues and operation of protocols at	Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Compare the differences between cellular and ad hoc networks a Summarize the protocols used at different layers of Adhoc networks.
2	CT 2403 CT 2403 PE-III CT 2411	Artificial Intelligence Lab Network Security Neural Network & Fuzzy Logic	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks Understand the operations and properties of classical crisp set and fuzzy set theory with arithmetic operations Understand defuzzification methods used in fuzzy controller system Understand the design issues and application areas of Ad	Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Compare the differences between cellular and ad hoc networks a Summarize the protocols used at different layers of Adhoc network. Identify the various types of attack in ad hoc networks.
2	CT2402 CT 2403 PE-III CT2411	Artificial Intelligence Lab Network Security Neural Network & Fuzzy Logic Adhoc Wireless	different types of AI agents. To describe different searching algorithms in AI (uninformed, informed, heuristic, constraint satisfaction) To explain different knowledge representation approaches and their fundamentals To comprehend various non-monotonic reasoning techniques and its applications. To explain different learning methods along with fundamentals of expert systems. Understand the security threats aimed at computer network and describe various security mechanisms and services to counter them. Study cryptographic mathematics to solve network security problems. Study of various cryptographic algorithms. Understand different security protocols at various layers of network model. Understand the fundamentals of biological neural network and artificial neural network Understand the architecture of feed forward and feedback word neural networks Understand the operations and properties of classical crisp set and fuzzy set theory with arithmetic operations Understand the design issues and application areas of Ad Understand design issues and operation of protocols at	Apply searching techniques for problem solving and planning Apply different knowledge representation techniques on given fa Solve AI problems using the techniques of uncertainty Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Identify threats to network security, associated attacks and countermeasures against attack. Use appropriate mathematical techniques in cryptography. Apply various algorithms/ mechanisms to formulate appropriate solution. Use of different security protocols at various networking layers. Compare the differences between cellular and ad hoc networks a Summarize the protocols used at different layers of Adhoc networks a

1		C12413	renivai system	To provide comprehensive details about various	Know the challenges associated with each topic
ŀ				To study and understand interface design tools, and	Apply the knowledge of human components for interaction with
	_	PE-III	PE III: Human	To study and understand the screen designing and its	Understand basics of Computer components functions regarding
	6	CT2414	Computer Interaction	To study and understand software tools related to HCI	Demonstrate Understanding of Interaction between the human and
			•	To understand the interaction devices.	Produce Implementation supports for HCI by using various tools.
				The different concepts of business intelligence.	Understand the basic concepts of Business Intelligence, digital data
	_	PE IV:			types, multidimensional modelling
	7	CT2415	Business Intelligence	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	Analyze the data to identify digital data types and multidimensional
-		1		The BI applications in different technology domains.	Design the MDDM and reports using the business concepts.
			PE IV: Pattern	The study of Pattern Recognition to equip the students with the brief knowledge of Statistical.	Apply Pattern Recognition techniques for recognition.
		PE-IV CT2421 CT2422	Recognization PE IV: Lab: Pattern Recognization	Decision Theory, Image processing, clustering, different	Know and Apply knowledge of Statistical Decision Theory
	8			Decision Theory, image processing, clustering, different	Perform Image processing concepts on images.
					Understand and apply clustering concepts on raw
					Apply decision making techniques.
		PE-IV CT2423 CT2424	PE IV: Cyber Forensic	To Comprehend different modern techniques with respect	Understand the fundamentals of Computer & Digital Forensics
				to Computer System and various accepts of Information	
	9		PE IV: Cyber Forensic	security	
			Lab	To Comprehend different forensic tools used in cyber	Describe the usage of tools to collect data useful for investigation
				To Understand different legal techniques and aspects for	Use forensic tools to collect evidence and generate report of
-				To Understand the process of compilation of report	
VII				The concepts of machine learning and the relative	Understand the fundamental principles of machine learning and design
		PE-IV	PE IV: Machine	strengths and weaknesses of different machine learning methods.	methods
	10	CT2425	Learning	The concept of different type of machines learning and	Apply various machine learning algorithms on a given problem and
		CT2426	PE IV: Machine	The different methods of evaluation of machine learning	Evaluate the performance of various machine learning algorithms on
			Learning Lab	Different ensembling methods and new techniques.	Implement various machine learning algorithms on a given dataset
					Formulate machine learning problems through investigation and
ſ				The aim of the course is to appreciate the idea behind	Create software designs that are scalable and easily maintainable
			PE IV: Design	Design Patterns in handling common problems faced	
		PE-IV	Patterns	during building an application	
	11	CT2427	PE IV: Design	This course covers all pattern types from creational to	Use creational design patterns in software design for class instantiation
		CT2428	Patterns Lab		Use structural design patterns for better class and object composition
					Use behavioral patterns for better organization and communication Use refactoring to compose the methods for proper code packaging, to
-			PE IV: Mobile	To study wireless networks its standards and protocol	Select appropriate standards for the given situation
	10	PE IV:	Communication PE IV: Mobile Communication Lab PE IV: Software Project Management	Understand different generations of wireless network	Illustrate the generations of telecommunication systems in wireless
	12	CT2429		2. Chaerstand arretent generations of whereas network	Develop an application using different tools
		CT2429			The second secon
				To learn basic concepts project contract and to get an	Understand basic concepts about project, project management and
		PE-IV		overview of various activities under project planning.	project planning.
	10			To understand techniques for cost benefit analysis And	Assess given requirements and perform cost benefit analysis.
	13	CT2431	PE IV: Software	To understand techniques for cost benefit analysis And To understand project scheduling and various network	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given
	13		PE IV: Software Project Management	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements.
	13	CT2431	PE IV: Software	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress,	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current
	13	CT2431	PE IV: Software Project Management Lab	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning,	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand
_	13	CT2431	PE IV: Software Project Management Lab PE IV: Numerical	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical
-	13	CT2431 CT2432	PE IV: Software Project Management Lab PE IV: Numerical Computing	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning,	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it.
		CT2431 CT2432 PE-IV	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical
		CT2431 CT2432 PE-IV CT2433	PE IV: Software Project Management Lab PE IV: Numerical Computing	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of
		CT2431 CT2432 PE-IV CT2433 CT2434	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud
		CT2431 CT2432 PE-IV CT2433 CT2434 PE-V	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits
	14	CT2431 CT2432 PE-IV CT2433 CT2434	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven
	14	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and
-	14	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable
-	14	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and
	14	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread
	14	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs
	14	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel To understand concepts of Dynamic Programming	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming
	14	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435 PE-V CT2436	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning. To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel To understand concepts of Dynamic Programming Understand the fundamentals of data mining techniques	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming
	14	PE-IV CT2433 CT2433 CT2434 PE-V CT2435 PE-V CT2436	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning. To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand basics of thread programming To familiarize with different directives of parallel To understand concepts of Dynamic Programming Understand the fundamentals of data mining techniques Comprehend the various data mining algorithms and	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming Understand the concepts related to data preparation, data modeling, and Apply the techniques for data pre-processing and modeling for
	14 15	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435 PE-V CT2436	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel Programming	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel To understand the fundamentals of data mining techniques Comprehend the various data mining algorithms and To understand the different methods of evaluation	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programming Understand the concepts related to data preparation, data modeling, and Apply the techniques for data pre-processing and modeling for Apply the supervised and unsupervised data mining techniques for
	14 15	PE-IV CT2433 CT2433 CT2434 PE-V CT2435 PE-V CT2436	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel Programming	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel To understand the fundamentals of data mining techniques Comprehend the various data mining algorithms and To understand the different methods of evaluation To understand new advanced techniques to extract the	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming Understand the concepts related to data preparation, data modeling, and Apply the techniques for data pre-processing and modeling for Analyze the data to apply appropriate data modeling and mining
	14 15	PE-IV CT2433 CT2434 PE-V CT2435 PE-V CT2436 PE-V CT2436	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel Programming PE V: Data Mining	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel To understand the fundamentals of data mining techniques Comprehend the various data mining algorithms and To understand new advanced techniques to extract the To understand new advanced techniques to extract the	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming Understand the concepts related to data preparation, data modeling, and Apply the techniques for data pre-processing and modeling for Apply the supervised and unsupervised data mining techniques for Analyze the data to apply appropriate data modeling and mining Understand the concept of Embedded System and different
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	14 15 16 17	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435 PE-V CT2436 PE-V CT2437 PE-V CT2438	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel Programming PE V: Data Mining PE V: Embedded Systems	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning. To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel To understand the fundamentals of data mining techniques Comprehend the various data mining algorithms and To understand new advanced techniques to extract the To understand the types of processors & architectures To empower students to perform a rigorous analysis of a To understand the concepts of Real Time Operating To make students capable of deciding the type of 5. Provide skills in embedded C programming To understand the meaning, purpose and tools of To understand different kind of restrictions on To understand different kind of restrictions on To understand different kind of restrictions on To understand and formulate Linear Programming To understand and solve the problem of constrained To understand and solve the problem of constrained	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming Understand the concepts related to data preparation, data modeling, and Apply the techniques for data pre-processing and modeling for Apply the supervised and unsupervised data mining techniques for Analyze the data to apply appropriate data modeling and mining Understand the concept of Embedded System and different Distinguish real- time embedded Systems from other systems Understand the design process of Embedded System, Inter-process Understand the architectural support of ARM processor, function of Describe at an intuitive level, the process of operations research. Solve Linear Programming problem using duality and find alternative Solve Assignment and Transportation problem so as to optimize the Solve sequencing and scheduling problem. Interpret various kinds of biological data for understanding etiology of Develop algorithms for handling biological da
	14 15 16 17 18	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435 PE-V CT2436 PE-V CT2437 PE-V CT2438	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel Programming PE V: Data Mining PE V: Embedded Systems PE V: Operations Research	To understand techniques for cost benefit analysis And To understand project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning. To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand principles of parallel algorithm design To understand basics of thread programming Understand the fundamentals of data mining techniques Comprehend the various data mining algorithms and To understand the different methods of evaluation To understand the wadvanced techniques to extract the To understand the system of processors & architectures To empower students to perform a rigorous analysis of a To understand the concepts of Real Time Operating To make students capable of deciding the type of 5. Provide skills in embedded C programming To understand the meaning, purpose and tools of To understand different Allocation models (Assignment To understand different kind of restrictions on	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming Understand the concepts related to data preparation, data modeling, and Apply the supervised and unsupervised data mining techniques for Analyze the data to apply appropriate data modeling and mining Understand the concept of Embedded System and different Distinguish real-time embedded systems from other systems Understand the design process of Embedded System, Inter-process Understand the architectural support of ARM processor, function of Describe at an intuitive level, the process of operations research. Solve Linear Programming problem son so to optimize the Solve Assignment and Transportation problem so as to optimize the Solve sequencing and scheduling problem.
	14 15 16 17 18	CT2431 CT2432 PE-IV CT2433 CT2434 PE-V CT2435 PE-V CT2436 PE-V CT2437 PE-V CT2438	PE IV: Software Project Management Lab PE IV: Numerical Computing PE IV: Numerical Computing Lab PE V: Cloud Computing PE V: Parallel Programming PE V: Data Mining PE V: Embedded Systems PE V: Operations Research	To understand techniques for cost benefit analysis And To understand Project scheduling and various network To understand Risk Management, Risk Planning and To understand various activities like visualizing progress, To understand the role of continuing training and learning, To understand basics of error induced in numerical computation To develop numerical algorithms and skills to implement Learn technologies to solve integration nuUnderstand Understand the basic concepts of distributed systems and Understand the basic concepts of distributed systems and Understand the concepts, characteristics, delivery models To enable students exploring some important cloud To expose the students to frontier areas of Cloud To provide basics of concepts of parallel computing To understand principles of parallel algorithm design To understand performance measuring metrics for parallel To understand basics of thread programming To familiarize with different directives of parallel To understand the fundamentals of data mining techniques Comprehend the various data mining algorithms and To understand the different methods of evaluation To understand the types of processors & architectures To empower students to perform a rigorous analysis of a To understand the concepts of Real Time Operating To make students capable of deciding the type of 5. Provide skills in embedded C programming To understand and formulate Linear Programming To understand different kind of restrictions on	Assess given requirements and perform cost benefit analysis. Create a project schedule using some network planning model for given Identify and create a risk management plan for given requirements. Perform earned value analysis for given requirements and current Form teams for any given exercise, work as a team and understand Apply appropriate formula to find different types of error in numerical computation and mitigate it. Choose and apply appropriate numerical techniques for problem solving Apply appropriate techniques for numerical integration Demonstrate basics of conditioning of problems and stability of Understand the basic concepts of distributed systems and cloud Understand the concepts, characteristics, delivery models and benefits Enable students exploring some important cloud computing driven Expose the students to frontier areas of Cloud Computing and Identify areas where parallel computing is applicable Implement parallel version of different algorithms using thread Find the speedup factor by analyzing parallel programs Develop real life applications using parallel programming Understand the concepts related to data preparation, data modeling, and Apply the techniques for data pre-processing and modeling for Apply the supervised and unsupervised data mining techniques for Analyze the data to apply appropriate data modeling and mining Understand the concept of Embedded System and different Distinguish real- time embedded Systems from other systems Understand the design process of Embedded System, Inter-process Understand the architectural support of ARM processor, function of Describe at an intuitive level, the process of operations research. Solve Linear Programming problems from the description of the real Solve Linear Programming problem using duality and find alternative Solve Assignment and Transportation problem so as to optimize the Solve sequencing and scheduling problem. Interpret various kinds of biological data for understanding etiology of Develop algorithms for handling biological

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				Acquire the domain knowledge and analyze the implemented model
		Major Project Phase II		
	CT2451			Design and develop the solution using appropriate tools and techniques
			environmental, economic, social, political, ethical and	for betterment of society and industry
			sustainability and analyze and interpret the data.	
			To work on multidisciplinary teams, tackle engineering	Communicate the work done through paper presentation or
1			problems, understand professional and ethical	participation in competion as a team.
			responsibility and communicate effectively.	
			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	
			To expose to culture and tradition.	An ability to work initially as well as part of team to achieve set goals.
			To provide opportunity for student to perform and present	Develop his hobbies and interests
			their hidden talent, still and art.	
			To nurture hobbies.	Communicate and work in team
			To organize co-curricular activities to make competitive	Develop the sense of responsibility
			spirit, cooperation, leadership, diligence, punctuality, team	
2	CT2452	Activity Evaluation	spirits.	
2	C12432		To develop creative talent, self-confidence, sense of	
			achievement.	
			To be able to design process on environmental, social,	
			political, ethical, health and safety.	
			To develop broad education to understand the impact of	
			engineering solution in a global economic, environmental,	
			society.	
		1 CT2451 2 CT2452	2 CT2452 Extra curricular	To work on multidisciplinary teams, tackle engineering problems, understand professional and ethical responsibility and communicate effectively. 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. To provide opportunity for student to perform and present their hidden talent, still and art. To nurture hobbies. To organize co-curricular activities to make competitive spirit, cooperation, leadership, diligence, punctuality, team spirits. To develop creative talent, self-confidence, sense of achievement. To be able to design process on environmental, social, political, ethical, health and safety. To develop broad education to understand the impact of engineering solution in a global economic, environmental,

Total Subjects