



Dept: COMPUTER SCIENCE AND ENGINEERING

BTECH (PT)- 2022R

Mapping of COs and POs

Course Code	Title of the Course	COs	POS											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
22148S11P	Transforms and Partial Differential Equations	Expand a function in terms of Fourier Series and apply it for solving engineering problems.	1	1	1	1								
		Gain knowledge on Fourier Transforms	1	1	-	1								
		Model and solve higher order partial differential equations	1	3	1	1								
		Apply the methods of solving PDE in practical problems	1	1	2	1								
		Handle problems in Z transforms and apply it to solve difference equations	2	1	1	1								
22152S12P	Digital Systems	Simplify Boolean functions using KMap	1	1	2									
		Design and Analyze Combinational and Sequential Circuits	1	2	1						1	2	1	1
		Implement designs using Programmable Logic Devices	1	1	2	1								
		Write HDL code for combinational and Sequential Circuits	1	2	1	1	2			1	2	1	1	2
22150H13P	Data Structures and algorithms	Implement abstract data types for linear data structures	1	2	1									
		Apply the different linear and non-	1	1	2							1	2	1

		linear data structures to problem solutions.													
		Critically analyze the various sorting algorithms	1	-	1	1	2								
22150H14P	Computer Architecture and Organization	Understand the basics structure of computers, operations and instructions	1	2	1					1	2		1	1	
		Design arithmetic and logic unit.	1	1	2										
		Understand pipelined execution and design control unit.	1	2	1										
		Understand parallel processing architectures.	1	-	1	1	2	1					1	3	
22150H15P	Problem Solving And Python Programming	Write, test, and debug simple Python programs.	1	2	1										
		Implement Python programs with conditionals and loops.	2	1	1						1				
		Develop Python programs step-wise by defining functions and calling them						1	2	3					
		Read and write data from/to files in Python.									2	1		1	
22148S21P	Numerical Methods	Determine the solution of algebraic and transcendental system of linear equations	1	1											
		To interpolate the values of unknown functions using Newton's Formula	2	1	-	2				1	2	1	1	2	

		Estimate the numerical values of the derivatives and integrals of Unknown function	2	1	1	2							
		Solve first and second order initial value problem	1	2	1	1							
		Solve Numerically boundary value problem	2	1	-	2							
22150H22P	Microprocessors and Interfacing	Understand and execute programs based on 8086/8085 microprocessor.	1	1	2					1	2	1	1
		Classify the instructions with the help of Addressing modes of 8085 with necessary programs	1	1	1								
		Design Memory Interfacing circuits.	1	-	1	1	2	1					
		Design and interface I/O circuits.	1	1	1	1							
		Design and implement 8051 microcontroller based systems.	1	1	-	1							
22150H23P	Database Management Systems	Classify the modern and futuristic database applications based on size and complexity	1	3	1	1				1	2	1	1
		Map ER model to Relational model to perform database design effectively	1	1	2	1							
		Write queries using normalization criteria and optimize queries	2	1	1	1							
		Compare and contrast various indexing strategies in different database systems	1	1	2					1	2	1	1
		Appraise how advanced databases differ from traditional databases.	1	2	1								
22150H24P	Design and Analysis Of Algorithms	Design algorithms for various computing problems. Analyze the time and space complexity of algorithms.	1	1	2	1							

22150E44CP	Professional Ethics in Engineering	Design Web pages using HTML/XML and style sheets	1	2	1						1	2	1	1		
		Create user interfaces using Java frames and applets.	1	1	1	1						1	2	1		
		Create dynamic web pages using server side scripting.	1	1	-	1										
		Write Client Server applications.	1	3	1	1										
		Use the frameworks JSP Strut, Hibernate, Spring	1	1	2	1				1	2	1	1	2		
22150E44DP	Advanced Databases	design a database using ER diagrams and map ER into Relations and normalize the relations	2	1	1	1										
		Acquire the knowledge of query evaluation to monitor the performance of the DBMS	1	1	2						1	2	1	1		
		Acquire the knowledge about different special purpose databases and to critique how they differ from traditional database systems.	1	2	1											
22150L45P	Internet Programming Lab	Create 3D graphical scenes using open graphics library suits	1	1	2	1				1	2	1	1	2		
		Implement image manipulation and enhancement	1	2	1	1	2									
		Create 2D animations using tools	1	2	1											
22150H51P	Object Oriented Analysis and	Design and implement projects using OO concepts.	1	1	2											
		Use the UML analysis and design diagrams.	1	-	1	1	2									
		Apply appropriate design patterns.	1	2	1						1	2	1	1		
		Create code from design.	1	1	2											
		Compare and contrast various testing techniques.	1	2	1											
22150H52P	Software Quality Management	Perform functional and nonfunctional tests in the life cycle of the software	1	-	1	1	2	1					1	3		

22150E64DP	Programming paradigms	Identify and discuss the design principles of a given language or paradigms	1	1	2					1	2	1	1	
		compare different programming languages from the point of view underlying design principles	1	2	1									
22150L65P	Java Programming Lab	Create 3D graphical scenes using open graphics library suits	1	-	1	1	2	1					1	3
		Implement image manipulation and enhancement	1	1	1	1								
		Create 2D animations using tools	1	1	-	1								
22160S71P	Total Quality Management	The student would be able to apply the tools and techniques of quality management to manufacturing and services processes.	1	3	1	1								
22150H72P	Grid and Cloud Computing	Apply grid computing techniques to solve large scale scientific problems.	1	1	2	1					1	2	1	1
		Apply the concept of virtualization.	2	1	1	1								
		Use the grid and cloud tool kits.	1	1	2									
		Apply the security models in the grid and the cloud environment.	1	2	1									
22150H73P	Middleware Technologies	To understand how middleware facilitates the development of distributed applications in heterogenous environments	1	1	2	1					1	2	1	1
		to learn the object oriented middleware basics through the example of cobra objects	1	2	1	1	2							
		To understand the basics of web services that is the most often used middleare techniques	1	2	1									
22150E74AP	High Speed Networks	Will be able to analyze the various parameters of networking	1	1	2									
		Will be able to understand the algorithm and technologies involved	1	-	1	1	2							

		in internet and associated networks													
22150E74BP	Information Retrieval Techniques	Knowledge and awareness of basic principles and concepts of biology, computer science and mathematics	1	2	1						1	2	1	1	
		Existing software effectively to extract information from large databases and to use this information in computer modeling	1	1	2										
22150E74CP	Software Project Management	Identify the key activities in managing a software project.	1	1	1	1			1	2	1	1	2		
		Compare different process models.	1	1	-	1									
		Concepts of requirements engineering and Analysis Modeling.	1	3	1	1				1	2	1	1	2	
		Apply systematic procedure for software design and deployment.	1	1	2	1									
		Compare and contrast the various testing and maintenance.	2	1	1	1									
22150E74DP	Cyber Forensics	Know and understand the basics and fundamentals of digital image processing, such as digitization, sampling, quantization, and 2Dtransforms.	1	1	2				1	2	1	1	2	1	
		Operate on images using the techniques of smoothing, sharpening and enhancement	1	2	1					1	2	1	1		
		Understand the restoration concepts and filtering techniques.	1	1	2	1									
		Learn the basics of segmentation, features extraction, compression	1	2	1	1	2			1	2	1	1	2	
22150P75P	Project	To independently carry out research	1	2	1										
		To write and present a report	1	1	2										
		To identify the problem in the existing power system and to develop software / hardware solution by doing research.	1	-	1	1	2			1	2	1	1	2	



COMPUTER SCIENCE AND ENGINEERING

M.TECH (FT)- 2022R

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Course Code	Title of the Course	Course Objectives	POS											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
22248S11A	Higher Mathematics	Have knowledge of the concepts needed to test the logic of a program	3	3	1	1	0	0	0	0	2	0	2	3
		Have gained knowledge which has application in expert system, in data base and a basic for the prolog language	3	3	1	1	0	0	0	0	2	0	2	3
		Have an understanding in identifying patterns on many levels	3	3	1	1	0	0	0	0	2	0	2	3
22250H12	Modern Operating System	To have an overview of different types of operating systems.	1	1	3	1	3	-	-	-	3	2	2	2
		To know the components of an operating system.	2	1	3	2	1	-	-	-	2	1	1	3
		To have a thorough knowledge of process management.	3	3	1	2	2	-	-	-	3	2	1	2
22250H13	Machine Learning Techniques	Explain the basic concepts of machine learning	2	2	1	2	2	-	-	-	1	1	1	2
		Construct unsupervised learning algorithms	2	1	-	1	1	-	-	-	2	1	1	2
		Evaluate and compare different models	2	2	1	2	2	1	1	-	1	2	1	3
		Construct supervised learning models	3	3	1	2	2	-	-	-	3	2	1	2
22250H14	Adhoc and Sensor Network	A broad overview of the state of wireless and ad hoc networking.	3	1	2	2	2	-	-	-	1	2	1	3
		The overview of the physical, networking and architectural issues of ad hoc networks	1	1	2	3	2	-	-	-	3	2	1	2
22250H15	Advanced Data Structures and Algorithms	The Different Heap Structures, Search Structures and Multimedia Structures.	1	1	3	1	3	-	-	-	3	2	2	2
		The various coding scheduling and algorithms.	2	1	3	2	1	-	-	-	2	1	1	3

		The various multimedia structures.	3	3	1	2	2	-	-	-	3	2	1	2
22250E16A	Multimedia Systems	To study the graphics techniques and algorithms.	2	2	1	2	2	-	-	-	1	1	1	2
		To study the multimedia concepts and various I/O technologies	2	1	-	1	1	-	-	-	2	1	1	2
22250E16B	Web Engineering	Explain the characteristics of web applications.	2	2	1	2	2	1	1	-	1	2	1	3
		Model web applications..	3	3	1	2	2	-	-	-	3	2	1	2
		Design and Test web applications.	3	1	2	2	2	-	-	-	1	2	1	3
22250E16C	Software Metrics	To introduce an integrated approach to software development incorporating quality management methodologies.	3	3	1	2	2	-	-	-	3	2	1	2
		To study about the quality improvements in software	2	2	1	2	2	-	-	-	1	1	1	2
		To understand the Software Quality software standards	2	1	-	1	1	-	-	-	2	1	1	2
22250L17	Advanced Web Technologies Lab	On completion of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies To create fully functional website/web application with MVC architecture	2	2	1	2	2	1	1	-	1	2	1	3
22250H21	Middleware Technologies	To study the set of services that a middleware system constitutes of.	3	3	1	2	2	-	-	-	3	2	1	2
		To understand how middleware facilitates the development of distributed applications in heterogeneous environments.	3	1	2	2	2	-	-	-	1	2	1	3
		To study how it helps to incorporate application portability, distributed application component interoperability and integration.	1	1	3	1	3	-	-	-	3	2	2	2
22250H22	Object Oriented Software Engineering	To learn about software prototyping, analysis and design.	2	1	3	2	1	-	-	-	2	1	1	3
		To learn UML and its usage.	3	3	1	2	2	-	-	-	3	2	1	2
		Case studies to apply the principles	2	2	1	2	2	-	-	-	1	1	1	2
22250H23	Internet of Things	Define the infrastructure for supporting IoT deployments	2	1	-	1	1	-	-	-	2	1	1	2

		Understand the usage of IoT protocols for communication between various IoT devices	2	2	1	2	2	1	1	-	1	2	1	3
		Design portable IoT using Arduino/Raspberry Pi /equivalent boards.	3	3	1	2	2	-	-	-	3	2	1	2
		Understand the basic concepts of security and governance as applied to IoT	3	1	2	2	2	-	-	-	1	2	1	3
		Analyze and illustrate applications of IoT in real time scenarios	3	3	1	2	2	-	-	-	3	2	1	2
22250E24A	Advanced Distributed Computing	processing, distributed systems, operating system issues.	2	2	1	2	2	-	-	-	1	1	1	2
		learn about distributed transaction	2	2	1	2	2	-	-	-	1	1	1	2
		study about the distributed databases	2	1	-	1	1	-	-	-	2	1	1	2
22250E24B	Data Warehousing & Data Mining	To introduce the concept of data mining with in detail coverage of basic tasks, metrics, issues, and implication. Core topics like classification, clustering and association rules are exhaustively dealt with.	2	2	1	2	2	1	1	-	1	2	1	3
		To introduce the concept of data warehousing with special emphasis on architecture and design	3	3	1	2	2	-	-	-	3	2	1	2
22250E24C	Information Retrieval Techniques	Build an Information Retrieval system using the available tools.	3	1	2	2	2	-	-	-	1	2	1	3
		Identify and design the various components of an Information Retrieval system	3	3	1	2	2	-	-	-	3	2	1	2
		Model an information retrieval system	2	2	1	2	2	-	-	-	1	1	1	2
		Design an efficient search engine and analyze the Web content structure.	2	1	3	2	1	-	-	-	2	1	1	3
22250E25A	Service Oriented Architecture	Understand SOA, service orientation and web services	3	3	1	2	2	-	-	-	3	2	1	2
		Analyzing and designing business based on SOA principles.	2	2	1	2	2	-	-	-	1	1	1	2
		Learning the concepts of XML	2	1	-	1	1	-	-	-	2	1	1	2
22250E25B	High Speed Networks	Describe and interpret the basics of high speed networking technologies.	2	2	1	2	2	1	1	-	1	2	1	3

		Apply the concept learnt in this course to optimize and troubleshoot high-speed network.	3	3	1	2	2	-	-	-	3	2	1	2
		Demonstrate the knowledge of network planning and optimization	3	1	2	2	2	-	-	-	1	2	1	3
22250E25C	Language Technologies	To tag a given text with basic Language features	3	3	1	2	2	-	-	-	3	2	1	2
		To design an innovative application using NLP components.	3	3	1	2	2	-	-	-	3	2	1	2
		To implement a rule based system to tackle morphology/syntax of a language	3	1	2	2	2	-	-	-	1	2	1	3
		To design a tag set to be used for statistical processing for real-time applications	3	3	1	2	2	-	-	-	3	2	1	2
22250L26	.NET Technologies Lab	Create Simple application using web controls	2	2	1	2	2	-	-	-	1	1	1	2
		Work with States of ASP.NET Pages & Adrotator Control Use of calendar control, Treeview control & Validation controls	1	1	3	1	3	-	-	-	3	2	2	2
222TECWR	Technical Writing /Seminars	Understand professional writing by studying management communication	2	1	3	2	1	-	-	-	2	1	1	3
22250H31	Software Project Management	Understand Project planning and management.	3	3	1	2	2	-	-	-	3	2	1	2
		Identify Client management and project definition.	2	2	1	2	2	-	-	-	1	1	1	2
		Understand testing based approach to development.	2	1	-	1	1	-	-	-	2	1	1	2
22250E32A	Cloud Computing	Identify cloud computing models, characteristics, and technologies.	3	3	1	2	2	-	-	-	3	2	1	2
		Get knowledge about the different architectures in cloud.	3	1	2	2	2	-	-	-	1	2	1	3
		Identify the information about service management and cloud securities	3	3	1	2	2	-	-	-	3	2	1	2
		Identify the various temporal, spectral and cepstral features required for identifying speech units – phoneme, syllable and wor	2	2	1	2	2	-	-	-	1	1	1	2

22250E32B	Speech Processing and Synthesis	Determine and apply Mel-frequency cepstral coefficients for processing all types of signals	1	1	3	1	3	-	-	-	3	2	2	2
		Identify the apt approach of speech synthesis depending	3	3	1	2	2	-	-	-	3	2	1	2
22250E32C	Soft Computing	To introduce the ideas of Neural networks, fuzzy logic and use of heuristics base on human experience.	2	2	1	2	2	-	-	-	1	1	1	2
		To have a general understanding of soft computing methodologies, including artificial neural networks, fuzzy sets, fuzzy logic, fuzzy clustering techniques and genetic algorithms;	2	1	-	1	1	-	-	-	2	1	1	2
		To Design and development of certain scientific and commercial application using computational neural network models, fuzzy models, fuzzy clustering applications and genetic algorithms in specified applications	3	3	1	2	2	-	-	-	3	2	1	2
22250E33A	Advanced Database Technology	Know the operations of parallel and distributed databases.	3	1	2	2	2	-	-	-	1	2	1	3
		Understand the structure s and standards of object relational databases.	3	3	1	2	2	-	-	-	3	2	1	2
		Get familiar with the concepts of XML, Mobile and Multimedia Databases	2	2	1	2	2	-	-	-	1	1	1	2
22250E33B	Reconfigurable Computing	Identify the need for reconfigurable architectures.	1	1	3	1	3	-	-	-	3	2	2	2
		Discuss the architecture of FPGAs	2	1	3	2	1	-	-	-	2	1	1	3
		Point out the salient features of different reconfigurable architectures.	3	3	1	2	2	-	-	-	3	2	1	2
		Develop applications using any HDL and appropriate tools.	2	2	1	2	2	-	-	-	1	1	1	2
22250E33C	Green Computing	Understanding scientific and social environment.	2	1	-	1	1	-	-	-	2	1	1	2
		Minimizing energy consumption from the IT estate.	3	3	1	2	2	-	-	-	3	2	1	2
		Purchasing green energy and using green suppliers.	2	2	1	2	2	-	-	-	1	1	1	2

		Reducing the paper and other consumables used.	1		1			1	3			2		2
		Minimizing equipment disposal requirements	1	1	3	1	3	-	-	-	3	2	2	2
22250E34A	Software Quality Assurance	To introduce an integrated approach to software development incorporating quality management methodologies.	2	1	3	2	1	-	-	-	2	1	1	3
		To study about the quality improvements in software	3	3	1	2	2	-	-	-	3	2	1	2
		To understand the Software Quality software standards	2	2	1	2	2	-	-	-	1	1	1	2
22250E34B	Bio-inspired Computing	Implement and apply bio-inspired algorithms	2	1	-	1	1	-	-	-	2	1	1	2
		Explain random walk and simulated annealing	2	2	1	2	2	-	-	-	1	1	1	2
		Explain swarm intelligence and ant colony for feature selection	2	1	-	1	1	-	-	-	2	1	1	2
		Apply bio-inspired techniques in image processing.	3	3	1	2	2	-	-	-	3	2	1	2
22250E34C	Wireless Application Protocols	Be able to discuss current and emerging technology in Wireless technology.	2	2	1	2	2	-	-	-	1	1	1	2
		Understand fundamental trends of technological evolution of Wireless technology.	1		1			1	3			2		2
		Have hands-on knowledge in developing simple and comprehensive WAP contents.	1	1	3	1	3	-	-	-	3	2	2	2
		Be able to create simple Wireless applications	2	1	3	2	1	-	-	-	2	1	1	3
22250P35	Project Work- Phase I	To independently carry out research /investigation to identify and solve practical problems	3	3	1	2	2	-	-	-	3	2	1	2
22250P41	Project Work- Phase II	To identify the problem in the existing power system and to develop software / hardware solution by doing research.	2	2	1	2	2	-	-	-	1	1	1	2


HOD

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22248S11AP	Higher Mathematics	Have knowledge of the concepts needed to test the logic of a program	3	3	1	1	0	0	0	0	2	0	2	3
		Have gained knowledge which has application in expert system, in data base and a basic for the prolog language	3	3	1	1	0	0	0	0	2	0	2	3
		Have an understanding in identifying patterns on many levels	3	3	1	1	0	0	0	0	2	0	2	3
22250H12P	Adhoc & Sensor Networks	A broad overview of the state of wireless and ad hoc networking.	1	1	3	1	3	-	-	-	3	2	2	2
		The overview of the physical, networking and architectural issues of ad hoc networks	2	1	3	2	1	-	-	-	2	1	1	3
22250H13P	Advanced Data Structures	The Different Heap Structures, Search Structures and Multimedia Structures.	3	3	1	2	2	-	-	-	3	2	1	2
		The various coding scheduling and algorithms.	2	2	1	2	2	-	-	-	1	1	1	2
		The various multimedia structures.	2	1	-	1	1	-	-	-	2	1	1	2
22250L14P	Advanced Web Technologies Lab	On completion of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies To create fully functional website/web application with MVC architecture	2	2	1	2	2	1	1	-	1	2	1	3

22250H21P	Middleware Technologies	To study the set of services that a middleware system constitutes of.	3	3	1	2	2	-	-	-	3	2	1	2
		To understand how middleware facilitates the development of distributed applications in heterogeneous environments.	3	1	2	2	2	-	-	-	1	2	1	3
		To study how it helps to incorporate application portability, distributed application component interoperability and integration.	1	1	2	3	2	-	-	-	3	2	1	2
22250H22P	Internet of Things	Define the infrastructure for supporting IoT deployments	1	1	3	1	3	-	-	-	3	2	2	2
		Understand the usage of IoT protocols for communication between various IoT devices	2	1	3	2	1	-	-	-	2	1	1	3
		Design portable IoT using Arduino/Raspberry Pi /equivalent boards.	3	3	1	2	2	-	-	-	3	2	1	2
		Understand the basic concepts of security and governance as applied to IoT	2	2	1	2	2	-	-	-	1	1	1	2
		Analyze and illustrate applications of IoT in real time scenarios	2	1	-	1	1	-	-	-	2	1	1	2
22250E23AP	Advanced Distributed Computing	processing, distributed systems, operating system issues.	2	2	1	2	2	1	1	-	1	2	1	3
		learn about distributed transaction	3	3	1	2	2	-	-	-	3	2	1	2
		study about the distributed databases	3	1	2	2	2	-	-	-	1	2	1	3
22250E23BP	Data Warehousing &Data Mining	To introduce the concept of data mining with in detail coverage of basic tasks, metrics, issues, and implication. Core topics like classification, clustering and association rules are exhaustively dealt with.	3	3	1	2	2	-	-	-	3	2	1	2
		To introduce the concept of data warehousing with special emphasis on architecture and design	2	2	1	2	2	-	-	-	1	1	1	2
22250E23CP	Information Retrieval Techniques	Build an Information Retrieval system using the available tools.	2	1	-	1	1	-	-	-	2	1	1	2
		Identify and design the various components of an Information Retrieval system	2	2	1	2	2	1	1	-	1	2	1	3
		Model an information retrieval system	3	3	1	2	2	-	-	-	3	2	1	2

		Apply machine learning techniques to text classification and clustering which is used for efficient Information Retrieval.	3	1	2	2	2	-	-	-	1	2	1	3
		Design an efficient search engine and analyze the Web content structure.	1	1	3	1	3	-	-	-	3	2	2	2
22250L24P	.NET Technologies Lab	Create Simple application using web controls	2	1	3	2	1	-	-	-	2	1	1	3
		Work with States of ASP.NET Pages & Adrotator Control Use of calendar control, Treeview control & Validation controls	3	3	1	2	2	-	-	-	3	2	1	2
222TECW RP	Technical Writing /Seminars	Understand professional writing by studying management communication	2	2	1	2	2	-	-	-	1	1	1	2
22250H31P	Modern Operating System	To have an overview of different types of operating systems.	2	1	-	1	1	-	-	-	2	1	1	2
		To know the components of an operating system.	2	2	1	2	2	1	1	-	1	2	1	3
		To have a thorough knowledge of process management.	3	3	1	2	2	-	-	-	3	2	1	2
22250E32P	Machine Learning Techniques	Explain the basic concepts of machine learning	3	1	2	2	2	-	-	-	1	2	1	3
		Construct unsupervised learning algorithms	3	3	1	2	2	-	-	-	3	2	1	2
		Evaluate and compare different models	2	2	1	2	2	-	-	-	1	1	1	2
		Construct supervised learning models	2	2	1	2	2	-	-	-	1	1	1	2
22250E33AP	Multimedia Systems	To study the graphics techniques and algorithms.	2	1	-	1	1	-	-	-	2	1	1	2
		To study the multimedia concepts and various I/O technologies	2	2	1	2	2	1	1	-	1	2	1	3
22250E33BP	Web Engineering	Explain the characteristics of web applications.	3	3	1	2	2	-	-	-	3	2	1	2
		Model web applications..	3	1	2	2	2	-	-	-	1	2	1	3
		Design and Test web applications.	3	3	1	2	2	-	-	-	3	2	1	2
22250E33CP	Software Metrics	To introduce an integrated approach to software development incorporating quality management methodologies.	2	2	1	2	2	-	-	-	1	1	1	2
		To study about the quality improvements in software	1	1	3	1	3	-	-	-	3	2	2	2
		To understand the Software Quality software standards	2	1	3	2	1	-	-	-	2	1	1	3
	Object Oriented Software	To learn about software prototyping, analysis and design.	3	3	1	2	2	-	-	-	3	2	1	2

22250H41P	Engineering	To learn UML and its usage.	2	2	1	2	2	-	-	-	1	1	1	2
		Case studies to apply the principles	2	1	-	1	1	-	-	-	2	1	1	2
2250H42P	Software Project Management	Understand Project planning and management.	2	2	1	2	2	1	1	-	1	2	1	3
		Identify Client management and project definition.	3	3	1	2	2	-	-	-	3	2	1	2
		Understand testing based approach to development.	3	1	2	2	2	-	-	-	1	2	1	3
22250E43AP	Service Oriented Architecture	Understand SOA, service orientation and web services	3	3	1	2	2	-	-	-	3	2	1	2
		Analyzing and designing business based on SOA principles.	3	3	1	2	2	-	-	-	3	2	1	2
		Learning the concepts of XML	3	1	2	2	2	-	-	-	1	2	1	3
22250E43BP	High Speed Networks	Describe and interpret the basics of high speed networking technologies.	3	3	1	2	2	-	-	-	3	2	1	2
		Apply the concept learnt in this course to optimize and troubleshoot high-speed network.	2	2	1	2	2	-	-	-	1	1	1	2
		Demonstrate the knowledge of network planning and optimization	1	1	3	1	3	-	-	-	3	2	2	2
22250E43CP	Language Technologies	To tag a given text with basic Language features	2	1	3	2	1	-	-	-	2	1	1	3
		To design an innovative application using NLP components.	3	3	1	2	2	-	-	-	3	2	1	2
		To implement a rule based system to tackle morphology/syntax of a language	2	2	1	2	2	-	-	-	1	1	1	2
		To design a tag set to be used for statistical processing for real-time applications	2	1	-	1	1	-	-	-	2	1	1	2
22250P44P	Project Work- Phase I	To independently carry out research /investigation to identify and solve practical problems	3	3	1	2	2	-	-	-	3	2	1	2
22250E51AP	Cloud Computing	Identify cloud computing models, characteristics, and technologies.	3	1	2	2	2	-	-	-	1	2	1	3
		Get knowledge about the different architectures in cloud.	3	3	1	2	2	-	-	-	3	2	1	2
		Identify the information about service management and cloud securities	2	2	1	2	2	-	-	-	1	1	1	2
		Identify the various temporal, spectral and cepstral features required for identifying speech units – phoneme, syllable	1	1	3	1	3	-	-	-	3	2	2	2

22250E51BP	Speech Processing and Synthesis	and wor												
		Determine and apply Mel-frequency cepstral coefficients for processing all types of signals	2	1	3	2	1	-	-	-	2	1	1	3
		Justify the use of formant and concatenative approaches to speech synthesis	3	3	1	2	2	-	-	-	3	2	1	2
		Identify the apt approach of speech synthesis depending	2	2	1	2	2	-	-	-	1	1	1	2
22250E51CP	Soft Computing	To introduce the ideas of Neural networks, fuzzy logic and use of heuristics base on human experience.	2	1	-	1	1	-	-	-	2	1	1	2
		To have a general understanding of soft computing methodologies, including artificial neural networks, fuzzy sets, fuzzy logic, fuzzy clustering techniques and genetic algorithms;	3	3	1	2	2	-	-	-	3	2	1	2
		To Design and development of certain scientific and commercial application using computational neural network models, fuzzy models, fuzzy clustering applications and genetic algorithms in specified applications	3	1	2	2	2	-	-	-	1	2	1	3
22250E52AP	Advanced Database Technology	Know the operations of parallel and distributed databases.	3	3	1	2	2	-	-	-	3	2	1	2
		Understand the structure s and standards of object relational databases.	2	2	1	2	2	-	-	-	1	1	1	2
		Get familiar with the concepts of XML, Mobile and Multimedia Databases	1	1	3	1	3	-	-	-	3	2	2	2
22250E52BP	Reconfigurable Computing	Identify the need for reconfigurable architectures.	2	1	3	2	1	-	-	-	2	1	1	3
		Discuss the architecture of FPGAs	3	3	1	2	2	-	-	-	3	2	1	2
		Point out the salient features of different reconfigurable architectures.	2	2	1	2	2	-	-	-	1	1	1	2
		Develop applications using any HDL and appropriate tools.	2	1	-	1	1	-	-	-	2	1	1	2
22250E52CP	Green Computing	Understanding scientific and social environment.	3	3	1	2	2	-	-	-	3	2	1	2
		Minimizing energy consumption from the IT estate.	2	2	1	2	2	-	-	-	1	1	1	2
		Purchasing green energy and using green suppliers.	1		1			1	3			2		2

		Reducing the paper and other consumables used.	1	1	3	1	3	-	-	-	3	2	2	2
		Minimizing equipment disposal requirements	2	1	3	2	1	-	-	-	2	1	1	3
22250E53AP	Software Quality Assurance	To introduce an integrated approach to software development incorporating quality management methodologies.	3	3	1	2	2	-	-	-	3	2	1	2
		To study about the quality improvements in software	2	2	1	2	2	-	-	-	1	1	1	2
		To understand the Software Quality software standards	2	1	-	1	1	-	-	-	2	1	1	2
22250E53BP	Bio-inspired Computing	Implement and apply bio-inspired algorithms	2	2	1	2	2	-	-	-	1	1	1	2
		Explain random walk and simulated annealing	2	1	-	1	1	-	-	-	2	1	1	2
		Apply bio-inspired techniques in image processing.	2	2	1	2	2	-	-	-	1	1	1	2
22250E53CP	Wireless Application Protocols	Be able to discuss current and emerging technology in Wireless technology.	1		1			1	3			2		2
		Understand fundamental trends of technological evolution of Wireless technology.	1	1	3	1	3	-	-	-	3	2	2	2
		Have hands-on knowledge in developing simple and comprehensive WAP contents.	2	1	3	2	1	-	-	-	2	1	1	3
		Be able to create simple Wireless applications	3	3	1	2	2	-	-	-	3	2	1	2
22250P61P	Project Work- Phase II	To identify the problem in the existing power system and to develop software / hardware solution by doing research.	2	2	1	2	2	-	-	-	1	1	1	2


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