PROGRAM STRUCTURE

I SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
1	173MC1T01	C Programming And Data Structures		✓		Students are able to develop the ability to express fluently in both written as well as oral form of language which is very much essential for the career growth
2	173MC1T02	Computer Organization		✓		Students are able to acquire skills related to problem solving techniques of Data structures to different sorting searching algorithms and data structures like stack, queue, lined list, Trees and Graphs.
3	173MC1T03	Discrete Mathematical Structures And Graph Theory		✓		Students are able to acquire skills related to develop the ability to understand the structure of R Program, e knowledge on mathematical functions, Graphical functions, distribution functions and regression models.
4	173MC1T04	Statistical Programming With R		✓		Students are able to demonstrate programming skill in java programming that helps them to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way in an manner.
5	173MC1T05	Accounting And Financial Management				.
6	173MC1L01	English Language Communication Skills Lab		✓		Students are able to demonstrate problem solving skills by ELCS to develop the ability to express fluently in both written as well as oral form of language which is very much essential for the career

					✓		growth
7		173MC1L02	C Programming Lab		✓		Students are able to acquire skills related to problem solving techniques of Data structures to different sorting searching algorithms and data structures like stack, queue, linked list, Trees and Graphs.
8		173MC1L03	Statistical Programming With R Lab		✓		Students are able to acquire skills related to develop the ability to understand the structure of R Program, e knowledge on mathematical functions, Graphical functions, distribution functions and regression models.

II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
9	173MC1T06	Oops Through Java		✓		Students are able to demonstrate Problem solving skills to analyze the real time problem, and creative solutions using JAVA Programming language.
10	173MC1T07	Operating Systems		✓		Students are able to acquire skills related to problem solving techniques of Operating Systems to understand the process flow, task scheduling, Organizing memory, process, processor, etc., which is very much essential for the career growth.
11	173MC1T08	Software Engineering		✓		Students are able to demonstrate Problem solving skills to analyze the software engineering and design patterns to achieve the "best" design of software's by imparting the suitable design pattern.
12	173MC1T09	Optimization Techniques				
13	173MC1T10	Computer Graphics	✓			Students are able to acquire related 2D,3D graphical representations and basic graphic programming using openGL enabling them to employed as graphic designer.
14	173MC1L04	Oops Through Java Lab		✓		Students are able to demonstrate programming skill in java programming that helps them to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way in an manner.
15	173MC1L05	Data Structures Lab		✓		Students are able to acquire skills related to problem solving techniques of Data structures to different sorting searching algorithms and data structures like stack, queue, linked list, Trees

						and Graphs.
16	173MC1L06	Operating System & Computer Graphics Lab	✓			Students are able to acquire related 2D,3D graphical representations and basic graphic programming using openGL enabling them to employed as graphic designer.

III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
17	173MC1T11	Data Base Management Systems	✓			Students are able to acquire skills related to SQL commands, constraints, views, models, transactions, storage and indexing enabling them to be employed for backend developer
18	173MC1T12	Computer Networks		✓		Students are able to demonstrate Problem solving skills to analyze basics of CN, different models of Computer Networks, layers protocol suite and Detailed study of the OSI reference model and the TCP IP architectures.
19	173MC1T13	Unix Programming		✓		Students are able to demonstrate programming solving skills by Identifying and using UNIX utilities to create and manage simple file processing operations
20	173MC1T14	Management Information System		✓		Student can able to understand the basics of MIS, structure of MIS, Information Systems for Competitive Advantage, Business Intelligence and knowledge Management System, Information System Planning, Evaluation &Maintenance of IS, and IS Security and Control.
21	173MC1T15	Design And Analysis Of Algorithms		✓		Students are able to demonstrate problem solving skills by apply knowledge of computing and mathematics to algorithm design
22	173MC1L07	Data Base Management Systems Lab	✓			Students are able to acquire skills related to SQL commands, constraints, views, models, transactions, storage and indexing enabling them to be employed for backend developer

					✓			Students are able to demonstrate programming solving skills by Identifying and using UNIX utilities to create and manage simple file processing operations
23								
	173MC1L08	Unix Programming Lab						
24					✓			Students are able to demonstrate Problem solving skills to analyze basics of CN, different models of Computer Networks, layers protocol suite and Detailed study of the OSI reference model and the TCP IP architectures.
	173MC1L09	Computer Networks Lab						

IV SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
25	173MC1T16	Object Oriented Analysis And Design		✓		Students are able to demonstrate Problem solving skills to analyze the Object oriented analysis and design fundamentals of object modelling, differentiate Unified Process from other approaches, static and dynamic UML diagrams.
26	173MC1T17	Advanced Java & Web Technologies	✓			Students are able to acquire skills related to developing web pages, enabling them to be employed as front end developers.
27	173MC1T18	Data Warehousing And Mining	✓			Students are able to demonstrate different method of organizing and compiling data into one database, whereas data mining deals with fetching important data from databases.
28	173MC4E01	Mobile Computing	✓			Students are able to acquire skills related to Mobile Computing to understand the cellular networks, Technologies, BTS, communication in mobility and advanced concepts.
29	173MC4E02	Human Computer Interaction		✓		DStudents are able to demonstrate GUI components such as Menus, Forms, Dialog boxes and gain knowledge on various design paradigms, online documentation concepts, information retrieval and its presentation.
30	173MC4E03	Cloud Computing	✓			Students are able to acquire skills related to Cloud computing and distributed computing enabling them to be employed for cloud services sector.
31	173MC4E04	Software Project	✓			Students are able to acquire skills related to SPM, to understand the different models of software project developing, different

		Management				approaches in developing and solving problems while developing projects.
32	173MC4E05	Artificial Intelligence	✓			Students are able to acquire technical skills to understand the evaluation of the AI, problem solving approaches, expert systems, or in Expert systems and fuzzy logic problem solutions.
33	173MC4E06	Embedded Systems				
34	173MC1L10	Advanced Java & Web Technologies Lab	✓			Students are able to acquire skills related to developing web pages, enabling them to be employed as front end developers.
35	173MC1L11	Data Warehousing And Mining Lab	✓			Students are able to demonstrate different method of organizing and compiling data into one database, whereas data mining deals with fetching important data from databases.
36	173MC1L12	Object Oriented Analysis And Design Lab		✓		Students are able to demonstrate Problem solving skills to analyze the Object oriented analysis and design fundamentals of object modelling, differentiate Unified Process from other approaches, static and dynamic UML diagrams.

V SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
37	MC1651	Big Data Analytics	✓			Students are able to acquire skills related to Big Data Use Cases and Big Data Analytics, the building blocks of Hadoop, Map Reduce approach to solve data analytics problems and PIG and Hive programming tools of Hadoop echo system
38	MC1652	Network Programming	✓			Students are able to acquire skills related to Network Programming, how a client will interact with server, socket programming, I/o multiplexing and UDP socket programming.
39	MC1653	Python Programming	✓			Students are able to acquire skills related to Python Programming to give solutions to Realtime problems in creative way.
40	MC1654	Cyber Security	✓			Students are able to acquire skills related to Designing and Developing 3d User Interfaces, 3D Interaction Techniques and Virtual Reality applications that enabling them to be employed as interior designers and developer in industry.
41	MC1655	Computer Forensics	✓			Students are able to acquire skills related to introduced the computer forensics, Both privately owned businesses as well as government entities such as the FBI, CIA, and NSA.
42	MC1656	E-Commerce		✓		Students are able to acquire technical skills to identify different categories and trends in e-commerce applications, understanding technologies used behind e-commerce, pro's and con's of e-commerce applications

43	MC1657	Internet Of Things	✓			Students are able to acquire skills related to Internet of Things and enabling them to be employed for IoT sector.
44	MC1658	Multimedia Application Development				
45	MC1659	Software Testing Methodologies	✓			Students are able to acquire technical skills to understand the various strategies or approaches used to test an application to ensure it behaves and looks as expected.
46	MC165A	Big Data Analytics Lab	✓			Students are able to acquire skills related to Big Data Use Cases and Big Data Analytics, the building blocks of Hadoop, Map Reduce approach to solve data analytics problems and PIG and Hive programming tools of Hadoop echo system
47	MC165B	Network Programming Lab	✓			Students are able to acquire skills related to Network Programming, how a client will interact with server, socket programming, I/o multiplexing and UDP socket programming.
48	MC165C	Python Programming Lab	✓			Students are able to acquire skills related to Python Programming to give solutions to Realtime problems in creative way.

VI SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
49	MC165D	Project Seminar	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
50	173MC6P01	Dissertation/ Thesis	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
Total No. Courses	**50**		**24**	**22**	**0**	

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