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 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.
2	173MC1T02	Computer organization	✓			Students are nurtured with the internal organization and functioning of Computer System and enabling them to get employed in the hardware sectors of computers.
3	173MC1T03	Discrete mathematical structures and graph theory		✓		-Students are able to demonstrate problem solving skills by learning Mathematical logic , Graph Theory and Number Theory .
4	173MC1T04	Statistical programming with R		✓		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.
5	173MC1T05	Accounting and financial management			✓	Students are able to apply the knowledge of economic and financial management enabling them to become an entrepreneur in any domain of their choice.
6	173MC1L01	English language communication skills lab		✓		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
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, lined 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 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.
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 analyse 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 open 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

	Trees					algorithms and data structures like stack, queue, lined 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 open enabling them to employed as graphic designer.

III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
17	MC1631	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	MC1632	Computer Networks		✓		Students are able to demonstrate Problem solving skills to analyse 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	MC1633	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	MC1634	Management Information System				
21	MC1635	Design And Analysis Of Algorithms		✓		Students are able to demonstrate problem solving skills by apply knowledge of computing and mathematics to algorithm design
22	MC1636	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
23	MC1637	Unix Programming Lab		✓		Students are able to demonstrate programming solving skills by Identifying and using UNIX utilities to create and manage simple file processing operations

24	MC1638	Computer Networks Lab		✓		Students are able to demonstrate Problem solving skills to analyse basics of CN, different models of Computer Networks, layers protocol suite and Detailed study of the OSI reference model and the TCP IP architectures.

IV SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
25	MC1641	Object Oriented Analysis And Design		✓		Students are able to demonstrate Problem solving skills to analyse the Object oriented analysis and design fundamentals of object modelling, differentiate Unified Process from other approaches, static and dynamic UML diagrams.
26	MC1642	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	MC1643	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	MC1644	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	MC1645	Human Computer Interaction		✓		Students 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	MC1646	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	MC1647	Software Project Management	✓			Students are able to acquire skills related to SPM, to understand the different models of software project developing, different approaches in developing and solving problems while developing projects.
32	MC1648	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	MC1649	Embedded Systems				.
34	MC164A	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	MC164B	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	MC164C	Object Oriented Analysis And Design Lab		✓		Students are able to demonstrate Problem solving skills to analyse 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		Information Security		✓		The students are able to demonstrate technical skills by learning the Normative Models of the Systems Development Process, Data Integrity
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	MC1641	Object Oriented Analysis And Design (Using Uml)		✓		Students are able to demonstrate Problem solving skills to analyse the Object oriented analysis and design fundamentals of object modelling, differentiate Unified Process from other approaches, static and dynamic UML diagrams.
40	MC165D	Animation & Gaming	✓			Students are able to acquire skills related to Animation and Gaming, to develop and design different games and animated video.
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	Middle Ware Technologies	✓			Students will be able to acquire technical skills to implement the distributed architecture in building real time applications.
44	MC1658	Multimedia Application Development	✓			Students are able to acquire technical skills to learn the development of multimedia applications development with the cross disciplinary skills of computing and creative media.
45	MC1659	Software Project Management	✓			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	MC164C	Uml Lab		✓		Students are able to demonstrate Problem solving skills to analyse the Object oriented analysis and design fundamentals of object modelling, differentiate Unified Process from other approaches, static and dynamic UML diagrams.
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.

VI SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
48	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
49		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	**49**		**20**	**25**	**0**	

T·Satyg

Program Coordinator

Beulah

Head of the Department
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