PROGRAM STRUCTURE

I SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
1	203MC1T01	Business Communication	✓			Students are able to demonstrate competency in the domain of computers extension and business management enabling them to become an entrepreneur.
2	203MC1T02	Mathematical and Statistical Foundations		✓		Students are able to demonstrate problem solving skills by modelling physical phenomenon using differential equations, system of linear equations in various engineering disciplines.
3	203MC1T03	Computer Organization & Operating Systems	✓			Students are nurtured with the internal organization and functioning of Computer System and enabling them to get employed in the hardware sectors of computers.
4	203MC1T04	Data Structures		✓		Students are able to demonstrate the learn different sorting searching algorithms and data structures like stack, queue, linked list, Trees and Graphs.
5	203MC1T05	Object Oriented Programming with JAVA		✓		Students are able to demonstrate Problem solving skills to analyze the real time problem, and creative solutions using JAVA Programming language.
6	203MC1L01	Operating Systems and Linux Lab		✓		Students are able to demonstrate the basic knowledge in the operating system and Linux OS, which is very much essential for the career growth
7	203MC1L02	Data Structures Lab		✓		Students are able to demonstrate the data structures helps to gain problem-solving skills i.e. to solve a problem in a logical as well

						as creative way.
8	203MC1L03	JAVA Programming Lab		✓		Students are able to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way using Java programming language.
9	203MC1P01	Socially Relevant Project using Design Thinking		✓		Students are able to analyse the real time problem analysis, and find the solutions in creative way.

II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
10	203MC2T06	Database Management Systems		✓		Students are able to demonstrate Problem solving skills to analyze the Data Base Management Systems to gain knowledge in a structured way to store and retrieve the data in effective way.
11	203MC2T07	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.
12	203MC2T08	Software Engineering and Design Patterns		✓		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.
13	203MC2T09	Data Warehousing and Mining		✓		Students are able to demonstrate Problem solving skills to analyze the Data warehousing is a method of organizing and compiling data into one database.
14	203MC2E02	Design and Analysis of Algorithms		✓		Students are able to demonstrate Problem solving skills to analyze the designing of algorithms and analysis of algorithms.
15	203MC2L04	Dbms Lab		✓		Students are able to demonstrate Problem solving skills to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way using DBMS.
16	203MC2L05	Computer Networks Lab		✓		Students are able to demonstrate Problem solving skills to gain problem-solving skills i.e. to solve a problem in a logical as well

						as creative way using computer networks.
17	203MC2L06	Software Engineering and Design Patterns Lab		✓		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.
18	203MC2T10	Employability Skills	✓			The students can able to learn solving problems in creatively and can communicate effectively.

III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
19	193MC3T11	Database Management Systems		✓		Students are able to demonstrate Problem solving skills to analyze structured way to store and retrieve the data in effective way.
20	193MC3T12	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.
21	193MC3T13	Design & Analysis of Algorithms		✓		Students are able to demonstrate Problem solving skills to analyze the designing of algorithms and analysis of algorithms.
22	193MC3T14	Advanced Java Programming		✓		Students are able to demonstrate Problem solving skills to analyze the creating web applications, other software applications and for real time problems students can give creative solutions.
23	193MC3T15	Object Oriented Analysis and Design				
24	193MC3L07	Database Management Systems Lab		✓		Students are able to demonstrate Problem solving skills to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way using DBMS.
25	193MC3L08	Advanced Java Programming Lab		✓		Students are able to demonstrate Problem solving skills to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way using Advanced Java Programming.

| 26 | 193MC3L09 | OOAD through UML Lab | | ✓ | | Students are able to demonstrate Problem solving skills to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way using Unified Modelling Language. |

IV SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
27	193MC4T16	Data Warehousing & Data Mining	✓			Students are able to acquire skills related to Data warehousing is a method of organizing and compiling data into one database, whereas data mining deals with fetching important data from databases. .
28	193MC4T17	Full Stack Technologies	✓			Students are able to acquire skills related to Full stack Technologies to give solutions to Realtime problems in creative way.
29	193MC4T18	Python Programming	✓			Students are able to acquire skills related to Python Programming to give solutions to Realtime problems in creative way.
30	193MC4E01	Embedded Computing				
31	193MC4E02	Artificial Intelligence	✓			Students are able to acquire skills related to Artificial Intelligence to understand the evaluation of the AI, problem solving approaches, expert systems, kr in Expert systems and fuzzy logic problem solutions.
32	193MC4E03	MOOCs-1	✓			Students are able to acquire skills related to selected course.
33	193MC4E04	Cloud Computing	✓			Students are able to acquire skills related to Cloud computing and distributed computing enabling them to be employed for cloud services sector..
34	193MC4E05	Multimedia Application				

		Development				
35	193MC4E06	Moocs-2	✓			Students are able to acquire skills related to Full stack Technologies to give solutions to Realtime problems in creative way.
36	193MC4L10	Full Stack Technologies Lab	✓			Students are able to acquire skills related to Full stack Technologies to give solutions to Realtime problems in creative way.
37	193MC4L11	Data Mining with R Lab	✓			Students are able to acquire skills related to data mining to give solutions to Realtime problems in creative way using Python Programming.
38	193MC4L12	Python Programming Lab	✓			Students are able to acquire skills related to Python Programming to give solutions to Realtime problems in creative way.

V SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
39	173MC5T19	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
40	173MC5T20	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.
41	173MC5T21	Python Programming	✓			Students are able to acquire skills related to Python Programming to give solutions to Realtime problems in creative way.
42	173MC5E07	Cyber Security	✓			Students are able to acquire skills related to design, develop and evaluate the performance of secure systems enabling them to be employed for designing and manufacturing of secure communication equipment.
43	173MC5E08	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.
44	173MC5E09	E – Commerce				
45	173MC5E10	Internet of Things				Students are able to acquire skills related to Internet of Things and enabling them to be employed for IoT sector.

			✓			
46	173MC5E11	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.
47	173MC5E12	Software Testing Methodologies		✓		Students are able to acquire technical skills by applying different software testing techniques and strategies.
48	173MC5E13	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
49	173MC5E14	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.
50	173MC5E15	Python Programming Lab	✓			Students are able to acquire skills related to python programming, enabling them to be employed as software developers.

VI SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
51	173MC6R01	Seminar		✓		Students are able to acquire skills related to learn new technologies and present one of it.
52	173MC6P01	Major Project	✓			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		52	23	24	0	

T-Satya

Program Coordinator

Beulah.

Head of The Department
Head of the Department
Department of MCA
Aditya Engineering College