PROGRAM STRUCTURE

I SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	. Remarks
1	193MC1T01	Problem Solving with C		✓		Students are able to acquire skills related to problem solving techniques, develop programming skills and to learn the basic concepts.
2	193MC1T02	Computer Organization		*		Students are able to acquire skills related to Computer Organizations to understand the internal organization of computers, CPU, memory unit and Input/Outputs and the relations between its main components.
3	193MC1T03	Discrete Mathematical Structures			Si Si	
4	193MC1T04	Probability and Statistics		~		Students are able to demonstrate problem solving skills by modelling Probability and statistics knowledge on mathematical probability calculation and for statistical analysis.
5	193MC1T05	Accounting and Financial Management		5	✓	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	193MC1L01	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	193MC1L02	Problem Solving with C Lab	4	√	Students are able to acquire skills related to problem solving techniques, develop programming skills and to learn the basic concepts.
8	193MC1L03	IT Workshop (Lab)	√		The students can able to learn skills related to the automation of an office and that basic knowledge of the computers.

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II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
9	193MC2T06	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, linked list, Trees and Graphs.
10	193MC2T07	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	193MC2T08	Software Engineering		, V		-Students are able to acquire skills related to problem solving techniques of Software Engineering to understand the process flow of software development, different soft water development models, Testing an application, and deployment of applications. It is very much essential for the career growth.
12	193MC2T09	OOP Through Java				Students are able to demonstrate Problem solving skills to analyze the real time problem, and creative solutions using JAVA Programming language.
13	193MC2T10	Optimization Techniques				Students are able to demonstrate Problem solving skills to analyze the real time problem, and creative solutions using JAVA Programming language.
14	193MC2L04	OOP Through Java Lab		1		Students are able to demonstrate Problem solving skills to analyze the real time problem, and creative solutions using JAVA

				Programming language.
15	193MC2L05	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	193MC2L06	Operating Systems and Linux Lab	~	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.

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 demonstrate Problem solving skills to analyze structured way to store and retrieve the data in effective way.
18	173MC1T12	Computer Networks		~		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.
19	173MC1T13	Unix Programming		. 1		Students are able to demonstrate Problem solving skills of Unix programming to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way.
20	173MC1T14	Management Information System				
21	173MC1T15	Design And Analysis Of Algorithms		~		Students are able to demonstrate Problem solving skills to analyze the designing of algorithms and analysis of algorithms.
22	173MC1L07	Data Base Management Systems Lab		~		Students are able to demonstrate Problem solving skills to analyze structured way to store and retrieve the data in effective way.
23	173MC1L08	Unix Programming Lab		~		Students are able to demonstrate Problem solving skills of Unix programming to gain problem-solving skills i.e. to solve a problem in a logical as well as creative way.

24	173MC1L09	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.
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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 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.
27	173MC1T18	Data Warehousing And 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	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		· •		Student are able to demonstrate Problem solving skills to gain problem-solving skills i.e. how to visualize the web sites in effective way.

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 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	173MC4E05	Artificial Intelligence	✓		Students are able to acquire skills related to Artificial Intelligence 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		100	•
34	173MC1L10	Advanced Java & Web Technologies 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.
35	173MC1L11	Data Warehousing And Mining Lab	~		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.
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,

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V SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	. Remarks
37	173MC1T19	Big Data Analytics	✓			Students are able to gain skills related to Big data analytics and related tool enabling them to be employed for data analytics role.
38	173MC1T20	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	173MC1T21	Python Programming	✓			Students are able to acquire skills related to python programming, enabling them to be employed as software developers.
40	173MC4E07	Cyber Security	~	9		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.
41	173MC4E08	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	173MC4E09	E-Commerce		1		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	173MC4E10	Internet Of Things	✓		Students are able to acquire skills related to Internet of Things and enabling them to be employed for IoT sector.
44	173MC4E11	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	173MC4E12	Software Testing Methodologies		~	Students are able to acquire technical skills by applying different software testing techniques and strategies.
46	173MC1L13	Big Data Analytics Lab	*	Δ.	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	173MC1L14	Network Programming Lab	4	3	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	173MC1L15	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
49	173MC6R01	Project Seminar		~		Students are able to acquire skills related to learn new technologies and present one of it.
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	o.Courses	50	18	27	1	

Program Coordinator

Head of The Department Head of the Department

Department of MCA Aditya Engineering College