

**DRAVIDIAN UNIVERSITY
KUPPAM-517426**

**SCHOOL OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY**



**Two year
Master of Computer Applications (MCA)
Programme w.e.f. the Academic year 2020-21**

**Choice Based Credit System (CBCS)
2020-2021**

DRAVIDIAN UNIVERSITY – KUPPAM
DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

Two-Year MCA Programme

PROGRAMME STRUCTURE

First Semester:

S. No.	Course Code	Course Title	Hrs. (Per Week)	Credits	Max. Marks		
					Internal	External	Total
1	MCACT111	Object-Oriented Programming with JAVA	5	5	30	70	100
2	MCACT112	Discrete Mathematical Structures	5	5	30	70	100
3	MCACT113	Computer Organization	5	5	30	70	100
4	MCACT114	Data Structures	5	5	30	70	100
5	MCACT115	Accounting and Financial Management	5	5	30	70	100
6	MCACT116	Probability and Statistics for Computer Applications	5	5	30	70	100
7	MCACP117	JAVA Programming Lab	3	1.5	25	50	75
8	MCACP118	Data Structures Lab	3	1.5	25	50	75
		Total		33			750

Prerequisite Course for the B.Sc./B.A./ B.Com. Students without Computer Science background:

S. No.	Course Code	Course Title	Hrs. (Per Week)	Credits	Max. Marks		
					Internal	External	Total
1.	MCAPRC01*	Fundamentals of Computers and Programming	2	2	30	--	30
		Total	2				30

* - A separate Certificate shall be issued for the students who will pass this prerequisite Course.

Second Semester:

S. No.	Course Code	Course Title	Hrs. (Per Week)	Credits	Max. Marks		
					Internal	External	Total
1	MCACT121	Computer Networks	5	5	30	70	100
2	MCACT122	Database Management Systems	5	5	30	70	100
3	MCACT123	Operating Systems	5	5	30	70	100
4	MCACT124	Design and Analysis of Algorithms	5	5	30	70	100
5	MCACT125	Software Engineering	5	5	30	70	100
6	MCAEE126	Open Elective from other departments (External Elective-I)	3	3	20	40	60
7	MCASS126	Open Elective from other departments (Soft Skills-I)	2	2	15	25	40
8	MCACP127	DBMS Lab	3	1.5	25	50	75
9	MCACP128	Computer Networks and OS Lab	3	1.5	25	50	75
		Total		33			750

Third Semester:

S. No.	Course Code	Course Title	Hrs. (Per Week)	Credits	Max. Marks		
					Internal	External	Total
1	MCACT231	Web Technologies	5	5	30	70	100
2	MCACT232	Artificial Intelligence	5	5	30	70	100
3	MCACT233	Cloud Computing	5	5	30	70	100
4	MCACT234	Internal Elective - I	5	5	30	70	100
5	MCAEE235	Open Elective from other departments (External Elective-II)	3	3	--	60	60
6	MCASS235	Open Elective from other departments (Soft Skills-II)	2	2	--	40	40
7	MCACP236	Web Technologies Lab	3	1.5	25	50	75
8	MCACP237	Internal Elective – I Lab	3	1.5	25	50	75
9	MCACP238	Mini Project Work	3	1.5	25	50	75
		Total		29.5			725

Internal Elective-I
Dot Net Technologies
Computer Graphics
Machine Learning with Python
Mobile Computing

Fourth Semester:

S. No.	Course Code	Course Title	Hrs. (Per Week)	Credits	Max. Marks		
					Internal	External	Total
1	MCAIT241	Internal Elective – II	5	5	30	70	100
2	MCAIT242	Internal Elective - III	5	5	30	70	100
3	MCACP243	Major Project Work #	--	15	100	200	300
		Total		25			400

- Two months Course work and three months industrial Project Work

Internal Elective-II	Internal Elective-III
Internet of Things	Data Warehousing and Mining
Cryptography and Network Security	Big Data Analytics
Soft Computing	Business Intelligence
Information Retrieval	Black Chain Technology
MOOCs-1 (NPTEL/ SWAYAM) * : <ul style="list-style-type: none"> • Data Science • Cyber Security • Any recommended course 	MOOCs-2 (NPTEL/ SWAYAM) * : <ul style="list-style-type: none"> • Full Stack Technologies • Neural Networks • Any recommended course

* - Students shall complete the MOOCs Courses before going for Industrial Project Work. They can also complete even in earlier semesters.

DRAVIDIAN UNIVERSITY – KUPPAM
DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

**Open Electives offered by the Department for the students of other
Departments**

Second Semester:

Open Electives offered to the students of other Departments		
Course Code	Course Title	Credits
CSTEE01	Web Designing	3
CSTSS01	Office Automation tools	2

Third Semester:

Open Electives offered to the students of other Departments		
Course Code	Course Title	Credits
CSTEE02	Programming in C	3
CSTSS02	Blogging	2