MAHATMA GANDHI UNIVERSITY

KOTTAYAM

MASTER OF COMPUTER APPLICATIONS

REGULAR (2 YEARS)

SCHEME, SYLLABUS & REGULATIONS

FOR

AFFILIATED COLLEGES

(FROM 2020 ADMISSION ONWARDS)

10. SCHEME OF THE PROGRAMME

Coding Structure : CT - Course Theory, CP - Course Practical, ET - Elective ,CS- Course Seminar, CV-Course Viva

Semester	Course Code	Course Name	No of hours / week		Marks		No. of Credits	Total Credit
			L	P	Internal	External		
I	MCACT101	Mathematical & Statistical foundation for Computer Applications	4	-	25	75	4	25
	MCACT102	Digital Logic & Computer Organization	4	-	25	75	4	
	MCACT103	Structured programming in C	4	-	25	75	4	
	MCACT104	Software Engineering and Object oriented modeling	4	-	25	75	4	
	MCACT105	Database technology and NoSql	4	-	25	75	4	
	MCACP106	Database technology Lab (Mysql & Mongodb)	-	4	25	75	2	
	MCACP107	Software Development Lab- I (C programming)	-	4	25	75	2	
	MCACT108	Employability Skill Training - Phase 1	2	-	50		1	
II	MCACT201	Optimization Techniques for Computer Applications	4	-	25	75	4	23
	MCACT202	Data structures and Algorithm Analysis	4	-	25	75	4	
	MCACT203	Computer Networking with TCP/IP	4	-	25	75	4	
	MCACT204	Data Science & Big data Analysis	4	-	25	75	4	
	MCACP205	Object oriented Lab (Java Lab)	-	6	25	75	3	
	MCACP206	Software development lab-II (PHP)	-	4	25	75	2	
	MCACP 207	Data structures Lab using C	-	4	25	75	2	
III	MCACT301	Machine Learning Techniques	4	-	25	75	4	23
	MCACT302	Cyber Forensics	4	-	25	75	4	
	MCA303ET	Elective 1	4	-	25	75	4	

Sem	Code	Course	L	P	Internal	External	Credit	Total
	MCA304ET	Elective 2	4	-	25	75	4	
	MCACP305	Python Programming for Data Science	-	4	25	75	2	
	MCACP306	Advance Operating System Lab using Linux	-	4	25	75	2	
	MCACP307	Mini Project	-	4	100	-	2	
	MCACT308	Employability Skill Training-Phase 2	2	-	50		1	
IV	MCACS401	Seminar	3		50		2	19
	MCACP402	Main Project		27	150	150	12	
	MCACV403	Course Viva		-	-	100	5	
Total Credit							90	90

Details of Electives proposed

Elective 1			Elective 2	
MCA303ET1	Artificial Intelligence		MCA304ET1	Cloud computing
MCA303ET2	Enterprise Resource Planning		MCA304ET2	Cryptography and Network Security
MCA303ET3	Computer Graphics And Multimedia		MCA304ET3	Business Management And Information System
MCA303ET4	Digital Image Processing		MCA304ET4	Internet of Things (IoT)

11. EVALUATION AND GRADING

11.1 - Evaluation : Evaluation Scheme for each course except MCACT108, MCA CP307, MCACT308, MCACS401 and MCACV403 contains two parts : End Semester Evaluation (External Evaluation) and Continuous Evaluation (Internal Evaluation). 25 Marks **can** be given to internal evaluation and remaining **75** Marks can be given to external evaluation and the ratio of marks between them is 1:3. Evaluation of MCACP402 contains two parts external and internal evaluation and can be given 150 marks each. MCACT108, MCACP307, MCACT308, MCACS401 are purely internal and the evaluation of MCACV403 is completely external.

11.2 The criteria for internal & External Evaluations for individual subjects are as follows:

The internal evaluation marks are awarded on the basis of day to day performance, periodic tests and assignments.

MCA Course Theory (CT) Papers

The criteria for internal evaluation of theory papers are as follows