



MATS
UNIVERSITY



MATS SCHOOL OF INFORMATION TECHNOLOGY

Teaching Learning Scheme

For

(Two Year Full-Time Post Graduate Course)

Master of Computer Applications (MCA)

2025-27

(Semester Based Course)

TEACHING LEARNING SCHEME

Semester – I

Course: Master of Computer Applications (MCA) Sem: I						
Subject			Evaluation Scheme			Total Marks
Category	Name	Course Code	Credits	Theory		
				Internal	University	
Compulsory Subjects						
Discipline Specific Core Courses (DSCC)	Object Oriented Programming Concepts	MCA DSC-101-T	4	30	70	100
	Object Oriented Programming Concepts Lab	MCA DSC-101-P	2	15	35	50
Discipline Specific Core Courses (DSCC)	Database Technologies	MCA DSC-102-T	4	30	70	100
	Database Technologies Lab	MCA DSC-102-P	2	15	35	50
Discipline Specific Core Courses (DSCC)	Data Sturcture Concepts	MCA DSC-103-T	4	30	70	100
	Data Sturcture Concepts Lab	MCA DSC-103-P	2	15	35	50
Discipline Specific Core Courses (DSCC)	Mathematical Foundation for Computer Application	MCA DSC-104	4	30	70	100
		Total	22	165	385	550

Semester-II

Course: Master of Computer Applications (MCA) Sem: II						
Courses			Evaluation Scheme			Total Marks
Category	Name	Code	Credits	Theory		
				Internal	University	
Discipline Specific Core Courses (DSCC)	Advanced JAVA Programming	MCA DSC-201-T	3	30	70	100
	Advanced JAVA Programming Lab	MCA DSC-201-P	2	15	35	50
Discipline Specific Core Courses (DSCC)	Operating System Concepts and Shell Programming	MCA DSC-202-T	3	30	70	100
	Operating System Concepts and Shell Programming Lab	MCA DSC 202-P	2	15	35	50
Project Work	Industrial Training with Project	MCA PRW-01	4	30	70	100
Discipline Specific Elective Courses (DSEC)	Elective I		3	30	70	100
	Elective I Lab		2	15	35	50
Discipline Specific Elective Courses (DSEC)	Elective II		3	30	70	100
		Total	22	195	455	650

Elective Courses		
Category	Name	Code
Elective I	Data Warehousing and Data Mining	MCA DSE-203-T
	Data Warehousing and Data Mining Lab	MCA DSE-203-P
Elective I	Software Testing	MCA DSE-204-T
	Software Testing Lab	MCA DSE-204-P
Elective II	Advanced Networking Concepts	MCA DSE-205
Elective II	Digital Image Processing	MCA DSE-206

Semester-III

Course: Master of Computer Applications (MCA) Sem: III						
Courses			Evaluation Scheme			Total Marks
Category	Name	Code	Credits	Theory		
				Internal	University	
Discipline Specific Core Courses (DSCC)	Software Project Management	MCA DSC 301-T	4	30	70	100
Discipline Specific Elective Courses (DSEC)	Elective III		4	30	70	100
	Elective III Lab		2	15	35	50
Discipline Specific Elective Courses (DSEC)	Elective IV		4	30	70	100
	Elective IV Lab		2	15	35	50
Discipline Specific Elective Courses (DSEC)	Elective V		2	15	35	50
Project Work	Minor Project	PRW-01	4	30	70	100
		Total	22	165	385	550

Elective Courses		
Category	Name	Code
Elective III	Responsive and User Experience Web Designing	MCA DSE 302-T
	Responsive and User Experience Web Designing Lab	MCA DSE 302-P
Elective III	Machine Learning	MCA DSE 303-T
	Machine Learning Lab	MCA DSE 303-P
Elective IV	Advanced Web Development	MCA DSE 304-T
	Advanced Web Development Lab	MCA DSE 304-P
Elective IV	Artificial Intelligence	MCA DSE 305-T
	Artificial Intelligence Lab	MCA DSE 305-P
Elective V	Internet of Things	MCA DSE 306-T
	Cloud Computing	MCA DSE 306-P

Semester-IV

Course: Master of Computer Applications (MCA) Sem: IV						
Courses			Evaluation Scheme			Total Marks
Category	Name	Code	Credits	Theory		
				Internal	University	
Internship	Major Project	INT-01	20	150	350	500
Discipline Specific Elective Courses (DSEC)	MOOC: Organizational Behaviour and Professional Ethics	MCA DSC 401	2	50	0	50
		Total	22	200	350	550