

Master of Computer Applications (MCA) (572)

This programme will equip students with knowledge highly relevant to emerging technologies. This programme will be an opportunity for graduates and professionals from a wide range of disciplines to develop IT Applications, Our goal is to develop into lively, trained computer professionals capable working in variety of domains and able to meet the business challenges and reap the rewards of various business scenarios.

Programme Objectives

This programme will provide training in core subjects, skill, embedded in a disciplinary context provided by the pathway, students will develop:

- Computational and project design skill
- Computer Application Skills & Technologies
- Data transformation skill and knowledge

Prerequisite / Eligibility

- BCA/BBA-IT/Any Bachelor degree in computer Science/Applications
- Computer Science / IT (BCS, B.Sc. Computer / IT / Electronics)
- Minimum 55% Score obtained in Graduation from any recognized university
- Clearance in entrance test is mandatory

Structure of Entrance Test

1) Structure

Section	Subject	Marks
1	Mathematics	25
2	Computer Basics	25
3	English	25
4	Aptitude	25
	Total	100

- 2) **Medium** : **English**
 3) **Duration** : **90 Minutes**
 4) **Nature** : **Multiple Choice**
 5) **Total Questions** : **100 Questions**
 6) **Entrance Test Form Fee** : **Rs. 500/-**

Fee Structure for the Year 2024 - 25

	First Year	Second Year
Eligibility	1000	-
Admission	2000	2000
Tuition	43000	48000
Laboratory / Practical	21000	21500
Library	500	500
Examination	3000	3000
Total	70500	75000

Programme Details



Library Deposit : Refundable Rs. 2000/-(2 books) to be paid separately.

Caution Deposit : 5000/-

Value added Input

- Various skill Development Courses
- Exclusive Cyber Security Courses For TMV Students at a reasonable cost

Scope & Career Opportunities :

This course will accelerate your career towards the future of analytics. This course starts from fundamentals in Data Management and Analytics to advanced topics like Big Data. The career options are equally opened in following areas :

- Software Professional
- Software engineer / programmer
- E-commerce companies
- Security and surveillance
- Big Data Analysts
- Data/Computer Scientist
- Consultant
- Project leader
- Program/Project Manager
- Can run own Business

COURSE STRUCTURE (572)

Semester - I

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
MCA24-101	Advanced C programming and Data Structure	Core	3	60	40	100	3	-
MCA24-102	Green Computing	DSC	3	60	40	100	3	-
MCA24-103	Discrete Mathematics	Core	3	60	40	100	3	-
MCA24-104	Advanced Linux & Shell Programming	DSC	3	60	40	100	3	-
MCA24-105	Software Engineering	DSC	3	60	40	100	3	-
MCA24-106	Research Methodology	AECC	4	60	40	100	3	-
MCA24-107	MOOC	MOOC	1	-	50	50	-	1
MCA24-108	Advanced C programming and Data Structure (PR)	DSC-LAB	1	30	20	50	-	1
MCA24-109	Linux & Shel Programming (PR)	DSC-LAB	1	30	20	50	-	1
			22			750		

Semester - II

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
MCA24-201	CTIT (Cyber Security + Intro. Block Chain)	Core	3	60	40	100	3	-
MCA24-202	Advanced Computer Network	DSC	3	60	40	100	3	-
MCA24-203	Django Web Framework	DSC	3	60	40	100	3	-
MCA24-204	Project	Core	4	-	100	100	-	4
MCA24-205	Internship	OJT	4	-	100	100	-	4
MCA24-206	MOOC (From Developer to Entrepreneur)	MOOC	3	-	100	100	3	-
MCA24-207	MOOC (GITHub) (1 Credit)	MOOC	1	-	50	50	-	1
MCA24-208	Django Web Framework (PR)	DSC-LAB	1	30	20	50	-	1
			22			700		

** CTIT – Introduction to IoT + Cyber Security + Blockchain Technology

Semester - III

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
MCA24-301	Data Mining & KDD	Core	3	60	40	100	3	-
MCA24-302 OR MCA34-303	Data Analytics using Python OR Cloud Computing	DSC	3	60	40	100	3	-
MCA24-304 OR MCA34-305	Web Application Development using .net OR Full Stack Development	DSC	3	60	40	100	3	-
MCA24-306	Software Testing and Tools	DSC	3	60	40	100	3	-
MCA24-307	Cryptography and Network Security	DSC	3	60	40	100	3	-
MCA24-308	Research Project	Research Project	4	-	100	100	-	4
MCA24-309 OR MCA24-310	Data Analytics using Python (PR) OR Cloud Computing (PR)	DSE-LAB	1	30	20	50	-	1
MCA24-311	Web Application Development using .net (PR) OR	DSE-LAB	1	30	20	50	-	1
MCA24-312	Full Stack Development (PR)							
MCA24-313	Software Testing and Tools	DSC-LAB	1	30	20	50	-	1
			22			750		

Semester - IV

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
MCA24-401	Artificial intelligence	Core	3	60	40	100	3	-
MCA24-402	Software Project Management	DSC	4	60	40	100	4	-
MCA24-403	Research Paper	Research Paper	2	-	50	50	2	-
MCA24-404	Internship	OJT	6	-	200	200	-	6
MCA24-405	Research Project	Research Project	6	120	80	200	-	6
MCA24-406	Artificial intelligence (PR)	Core-Lab	1	30	20	50	-	1
			22			700		