

# CURRICULAM

## I Semester

Subject Code	Subject	No: of periods per week		Duration of exam	Sessional Marks (max)	University Exam marks (max)	Total marks
		Lect.	Lab				
MCA 101	Mathematical Foundations of Computer Science	4	-	3	25	75	100
MCA 102	Probability & Statistics	4	-	3	25	75	100
MCA 103	Digital Systems & Computer Hardware	4	-	3	25	75	100
MCA 104	Principles of Management & Accountancy	4	-	3	25	75	100
MCA 105	Problem Solving and Programming in C	4	-	3	25	75	100
MCA 106	C Lab	-	6	3	25	75	100
MCA 107	PC Hardware Lab	-	2	3	25	25	50
	<b>Total</b>	<b>20</b>	<b>8</b>				<b>650</b>

## II Semester

Subject Code	Subject	No: of periods per week		Duration of exam	Sessional Marks (max)	University Exam marks (max)	Total marks
		Lect.	Lab				
MCA 201	Computer Organization & Architecture	4	-	3	25	75	100
MCA 202	Data Structures	4	-	3	25	75	100
MCA 203	Microprocessors & Embedded Systems	4	-	3	25	75	100
MCA 204	Object Oriented Programming & C++	4	-	3	25	75	100
MCA 205	Management Information Systems	4	-	3	25	75	100
MCA 206	DS Lab	-	4	3	25	75	100
MCA 207	C++ Lab	-	4	3	25	75	100
	<b>Total</b>	<b>20</b>	<b>8</b>				<b>700</b>

### III Semester

Subject Code	Subject	No: of periods per week		Duration of exam	Sessional Marks (max)	University Exam marks (max)	Total marks
		Lect.	Lab				
MCA 301	Computer Graphics	4	-	3	25	75	100
MCA 302	Data Base Management System	4	-	3	25	75	100
MCA 303	System Software	4	-	3	25	75	100
MCA 304	Data Communications & Computer Networks	4	-	3	25	75	100
MCA 305	Software Engineering	4	-	3	25	75	100
MCA 306	Microprocessors Lab	-	4	3	25	75	100
MCA 307	Computer Graphics & Multimedia Lab	-	4	3	25	75	100
	<b>Total</b>	<b>20</b>	<b>8</b>				<b>700</b>

## IV Semester

Subject Code	Subject	No: of periods per week		Duration of exam	Sessional Marks (max)	University Exam marks (max)	Total marks
		Lect.	Lab				
MCA 401	Optimization Techniques	4	-	3	25	75	100
MCA 402	Operating Systems	4	-	3	25	75	100
MCA 403	Algorithm Analysis & Design	4	-	3	25	75	100
MCA 404	Java & Web Programming	4	-	3	25	75	100
MCA 405	Elective I	4	-	3	25	75	100
MCA 406	DBMS Lab	-	4	3	25	75	100
MCA 407	Java & Web Programming Lab	-	4	3	25	75	100
	<b>Total</b>	<b>20</b>	<b>8</b>				<b>700</b>

### Elective I :

- Visual programming
- Client Server Computing
- Neural Networks and Fuzzy Logic
- Business data processing and COBOL Programming
- Entrepreneurship
- Enterprise Resource Planning
- Object Oriented Modeling and Design

## V Semester

Subject Code	Subject	No: of periods per week		Duration of exam	Sessional Marks (max)	University Exam marks (max)	Total marks
		Lect.	Lab				
MCA 501	Software Project Management	4	-	3	25	75	100
MCA 502	Internet Technology & Applications	4	-	3	25	75	100
MCA 503	Linux Internals	4	-	3	25	75	100
MCA 504	Data Mining & Warehousing	4	-	3	25	75	100
MCA 505	Elective II	4	-	3	25	75	100
MCA 506	Linux Lab	-	2		25	25	50
MCA 507	Mini Project	-	4		100	-	100
	Seminar	-	2		50	-	50
	<b>Total</b>	<b>20</b>	<b>8</b>				<b>700</b>

### Elective II:

- **Advanced Computer Architecture & Parallel processing**
- **Distributed Computing**
- **Artificial Intelligence**
- **Cryptography & Network Security**
- **Multimedia Systems**
- **Bioinformatics**
- **Digital Image Processing**

## VI Semester

<b>Subject Code</b>	<b>Subject</b>	<b>Sessional Marks (max)</b>	<b>University Exam marks (max)</b>	<b>Total marks</b>
<b>MCA 601</b>	<b>Project work</b>	<b>200</b>	<b>150</b>	<b>350</b>
<b>MCA 602</b>	<b>General Viva-voce</b>	<b>-</b>	<b>100</b>	<b>100</b>
	<b>Total</b>			<b>450</b>