

## **Outline of MCA (Master of Computer Applications)**

### **Semester I**

<b>Prog. Code</b>	<b>Subject Name</b>	<b>Credits</b>
MCA-101	Programming Fundamentals using C	4
MCA-102	Computer Architecture	4
MCA-103	Database Management System	4
MCA-104	MS-Office	4
MCA-105	Practical Lab-I	2

### **Semester II**

<b>Prog. Code</b>	<b>Subject Name</b>	<b>Credits</b>
MCA-201	Computer Networks & Data Communications	4
MCA-202	Operating Systems	4
MCA-203	Data Structures & Algorithms	4
MCA-204	Visual Programming	4
MCA-205	Practical Lab-II	2

### **Semester III**

<b>Prog. Code</b>	<b>Subject Name</b>	<b>Credits</b>
MCA-301	UNIX & Shell Programming	4
MCA-302	Data Mining & Data Warehousing	4
MCA-303	Artificial Intelligence	4
MCA-304	Computer Graphics	4
MCA-305	Practical Lab-III	2

### **Semester IV**

<b>Prog. Code</b>	<b>Subject Name</b>	<b>Credits</b>
MCA-401	Analysis & Design of Computer algorithms	4
MCA-402	C# & .Net Technology	4
MCA-403	Software Project Management	4
MCA-404	Advanced Computer Architecture	4
MCA-405	Practical Lab-IV	2

### **Semester V**

<b>Prog. Code</b>	<b>Subject Name</b>	<b>Credits</b>
MCA-501	Advance Java	4
MCA-502	Neural Networks	4
MCA-503	Object Oriented Design & Modeling	4
MCA-504	Quality Management Principles	4
MCA-505	Practical Lab-V	2

### **Semester VI**

<b>Prog. Code</b>	<b>Subject Name</b>	<b>Credits</b>
MCA-601	Major Project	20