

## MCA (2 Year) Batch 2020 Subject List

### Semester 1<sup>st</sup>

Code	Title
TMC101	Computer Fundamentals and Programming Methodology Using 'C'
TMC102	Computer Organization and Architecture
TMC103	Operating System
TMC104	Discrete Structure and Combinatorics
TMC105	Statistical Data Analytics with R
TMC106	Scripting Languages
TMC107	Professional Communication & Carrier Skill -I
PMC101	'C' Programming Lab
PMC102	Computer Organization and OS Lab
PMC103	Scripting Language and R Lab
SM101	Seminar

### Semester 2<sup>nd</sup>

Code	Title
TMC201	Data Structure and File Organization Using C
TMC202	Object Oriented Analysis and JAVA Programming
TMC203	Computer Networks
TMC204	Data Base Management System
TMC 205	<b>ELECTIVE –I</b>
TMC 206	Software Engineering and Project Management
TMC207	Professional Communication & Career skill – II
PMC201	Data Structure Lab
PMC202	CN and JAVA Programming Lab
PMC203	DBMS Lab
MCP 201	Project -I

### Semester 3<sup>rd</sup>

Code	Title
TMC301	Design and Analysis of Algorithm
TMC302	Machine Learning using Python
TMC303	Automata Theory and Compiler Construction
TMC304	<b>ELECTIVE –II</b>
TMC305	Full Stack Web Development
TMC306	Enterprise Architecture using C# (.Net)
TMC307	Graphics and Visual Computing
PMC301	DAA and (.Net) C# Lab.
PMC302	Compiler Construction Lab.

PMC303	Machine Learning and Full Stack Web Development Lab.
MCP301	Project – II

## **Semester 4th**

Code	Title
TMC401	Business Intelligence and ERP Systems
TMC402	<b>ELECTIVE –III</b>
TMC403	<b>ELECTIVE –IV</b>
MCP401	Dissertation
MCV401	Comprehensive Viva-Voce
SMC401	Seminar

### **ELECTIVE –I**

TMC205(1)	Digital Marketing and Social Media Management
TMC205(2)	Virtualization and Cloud Computing
TMC205(3)	System Software
TMC205(4)	Artificial Intelligence and Neural Network
TMC205(5)	Bigdata Visualization

### **Elective – II**

TMC304(1)	Storage Networks
TMC304(2)	Image Processing and Computer Vision
TMC304(3)	Web 2.0 and Rich Internet Applications
TMC304(4)	Big Data Analytics
TMC304(5)	Cloud Infrastructure

### **Elective – III**

TMC402(1)	Mobile Application Design and Development
TMC402(2)	Network Programming
TMC402(3)	Internet of Things
TMC402(4)	Advanced Software Testing
TMC402(5)	Devops on Cloud
Any other course with same credit system from other Departments	

### **Elective – IV**

TMC403(1)	Cryptography and Network Security
TMC403(2)	Natural Language Processing
TMC403(3)	Distributed Systems
TMC403(4)	Soft Computing
TMC403(5)	Data Mining and Warehousing
Any other course with same credit system from other Departments	