

# Proposed Subject List for MCA – 3 Years Program

## Semester - 1

Sr. No	Subject Names
1.	Fundamental of Programming
2.	Fundamental of Computer Organization
3.	Fundamental of Website Designing
4.	Business Process Domains
5.	Technical Writing and Presentation Skills

## Semester - 2

Sr. No	Subject Names
1.	Discrete Maths & Theory of Computation
2.	Data Structure using C++
3.	Operating System and System Software
4.	Essential of Networking
5.	Database Management System

## Semester - 3

Sr#	Track	Subject Names
1.	Mandatory	CONM and AGT
2.	Mandatory	SQL and Advanced SQL
3.	Mandatory	Fundamental Programming with Java
<b>Elective-1</b>		
1.	Web-Dev.	Web Development using with PHP
2.	Software Dev.	Programming with Python
3.	Networking	Computer Networking and Security
4.	Administration	Linux Administration
5.	Database	Database Management System
<b>Elective – 2</b>		
6.	Data Analytics	R-Programming
7.	Animation and Gaming	Programming with C#
8.	Emerging Tech	Cloud Computing
9.	Mobile Apps Dev.	Responsive Web Designing with JS and Angular JS
10.	Research	Research Methodology

## Semester - 4

Sr#	Track	Subject Names
1.	Mandatory	Statistical Methods
2.	Mandatory	Mobile App Development using Android
3.	Mandatory	Software Engineering and UML
<b>Elective – 1</b>		
1.	Web-Dev.	Laravel Framework using PHP
2.	Software Dev.	Advanced Python Programming
3.	Networking	Advance Networking
4.	Administrati on	Database Administration
5.	Database	Advance Database Management System
<b>Elective – 2</b>		
6.	Data Analytics	Big Data Tools
7.	Animation and Gaming	Game Programming using Unity 3D
8.	Emerging	Internet Web Service
9.	Mobile Apps Dev.	Ionic / Cordova
10.	Research	Research Tools

## Semester - 5

Sr#	Track	Subject Names
1.	Mandatory	Design Analysis and Algorithm
2.	Mandatory	SEO and Digital Marketing
3.	Mandatory	Mini-Project (Part Time IDP)
<b>Elective – 1</b>		
1.	Web-Dev.	Web Development using Angular JS and Node JS.
2.	Software Dev.	Machine Learning with Python
3.	Networking	Networking Administration
4.	Administrati on	IT Infrastructure and Monitoring
5.	Database	Data Mining and Blockchain
<b>Elective – 2</b>		
6.	Data Analytics	Big Data Analytics
7.	Animation and Gaming	Augmented Reality and Virtual Reality
8.	Emerging	Internet of Things
9.	Mobile Apps Dev.	Mobile Programming using iOS
10.	Research	Dissertation

<b>Semester - 6</b>	
<b>Sr#</b>	<b>Subject Names</b>
<b>1</b>	<b>Full Time IDP</b>