Visvesvaraya Technology University (VTU)
] Syllabus-MCA

I SEMESTER

S.No	Title of the Subject
1	Problem Solving using C
2	Discrete Mathematics
3	Fundamentals of Computer Organization
4	Introduction to Unix
5	Professional Communication & Ethics
6	C Programming Laboratory
7	Unix Laboratory
8	IT and Digital Electronics Laboratory

II SEMESTER

S.No	Title of the Subject
1	Business Data Processing with COBOL
2	Object Oriented Programming with C++
3	Data Structures using C
4	Management Information Systems
5	Operations Research
6	COBOL Programming Laboratory
7	Data Structures Using C Laboratory
8	Object Oriented Programming with C++ Laboratory

III SEMESTER

S.No	Title of the Subject
1	Systems Software
2	Computer Networks
3	Programming with Java
4	Database Management Systems
5	Operating Systems
6	Systems Programming Laboratory
7	Java Programming Laboratory
8	DBMS Laboratory

IV SEMESTER

S.No	Title of the Subject
1	Topics in Enterprise Architectures –I
2	Software Engineering
3	Web Programming
4	Design and Analysis of Algorithms
5	Elective I
6	J2EE Laboratory
7	Web programming Laboratory
8	Algorithms Laboratory

	Elective I
	Computer Graphics and Visualization
	UNIX system Programming
	Multimedia Systems
	Pattern Recognition
	Principles of User Interface Design
	Advanced Computer Networks

V SEMESTER - Master of Computer Applications

S.No	Title of the Subject
1	Object-Oriented Modeling and Design Patterns
2	System Simulation and Modeling
	Topics in Enterprise Architectures -II
4	Elective II
5	Elective III
6	Software Design Laboratory
7	.Net Laboratory
8	Mini Project

Elective II	Elective III
Information Retrieval	Information & Network Security
Data Mining	Software Testing
Supply Chain Management	Services Oriented Architecture
Network Management	Mobile Computing
Compiler Design	Storage Area Networks
Software Architectures	Web 2.0 & Rich Internet Applications

VI SEMESTER - Master of Computer Applications

S.No	Subject Code	Title of the Subject
1		Project Work

NOTE: Students have to register for one Elective from each of the Three Elective Groups