

MCA

The **MCA** is a three year full-time degree program from Amity University.

Semester 1	Semester 2
<ul style="list-style-type: none">• Mathematical Foundation To Computer Science• Financial Accounting• Computer Fundamental And Programming In C• Operating Systems Theory And Practices• Data Communication And Network Fundamental• Computer Organization Architecture And Assembly Language• Advance Communication• Self Development & Interpersonal Skill• Foreign Language -I Introduction To Francophone Culture Introduction To German Culture Introduction To Hispanic World Introduction To Japanese Culture Introduction To Chinese Culture Introduction To Russian Culture Introduction To Vedic Culture Introduction To Arabic Culture	<ul style="list-style-type: none">• Computer Oriented Numerical Analysis• Total Quality Management• Object Oriented Programming with C++• Data Structures Using C Language• Computer Graphics and Animation• Principles and Practices of Software Engineering• Communication For Employment• Conflict Resolution & management• Foreign Language -II French Grammar - I German Grammar - I Spanish Grammar - I Japanese Grammar - I Chinese Grammar - I Russian Grammar - I Arabic Grammar - I Sanskrit Grammar - I

TERM PAPER

Semester 3

- Optimization Techniques In Engineering
- Core Java
- Relational Database Management System
- Routing Protocol Concepts
- Graph Theory And Combinatorics
- Research Methodologies
- Professional Competencies & Career Development
- Professional Communication Skills
- Foreign Language -III
French Written Expression & Comprehension - I
German Written Expression & Comprehension - I
Spanish Written Expression & Comprehension - I
Japanese Written Expression & Comprehension - I
Chinese Written Expression & Comprehension - I
Russian Written Expression & Comprehension - I
Arabic Written Expression & Comprehension - I
Sanskrit Written Expression & Comprehension - I

Semester 4

- Business Intelligence & Analytics
- Probability & Statistics
- Advanced Web Technologies
- Dot Net Framework and C Sharp
- **Choose any 2(Two) Courses**
Enterprise Resource Planning
E-Commerce & its Applications
Human Computer Interface
Design and Analysis of Algorithms
Corporate Planning
- **Choose any 1(one) Course**
Post Relational Database Management System
Image Processing
LAN Switching and Wireless
- Cross Culture Communication & Global Competence
- Leadership & Managing Excellence
- Foreign Language –IV
Communicative French - I
Communicative German - I
Communicative Spanish - I
Communicative Japanese - I
Communicative Chinese - I
Communicative Russian - I
Communicative Arabic - I
Communicative Sanskrit - I

SUMMER PROJECT

Semester 5

- Management Information System
- Software Project Planning and Management
- UNIX / Linux Programming
- **Choose any 2(Two) Courses**
 - Mobile Computing & Technologies
 - Cloud Infrastructure Services
 - Software Testing and Reliability
 - Principles of Compiler Design
 - Open Source Technologies
 - Ubiquitous Computing
 - High Performance Computing
- **Choose any 1(One) Course**
 - Advanced Database Concepts
 - Artificial Intelligence and Robotics
 - Distributed Database
 - Soft Computing Techniques
 - Advanced Java
 - Accessing the WAN
- Essentials of Public Speaking
- Value & Ethics
- Foreign Language –V
 - French Grammar - II
 - German Grammar - II
 - Spanish Grammar - II
 - Japanese Grammar - II
 - Chinese Grammar - II
 - Russian Grammar - II
 - Arabic Grammar - II
 - Sanskrit Grammar - II

Semester 6

- Seminar
- Project