

(Revised Fall 2007)

The world has become a small village due to the revolution in Information Technology. It has affected almost all walks of life, be it business, education, entertainment services and healthcare.

This course is designed to produce a dynamic breed of computer professionals with excellent managerial skills. Emphasis is given to in-depth studies of numerous application-oriented subjects, covering various methodologies to develop software products efficiently by utilizing advance networking technologies and application software.

PGDCA is an initiation course for students who want to become skillful and knowledgeable IT professionals. The program gives fundamental knowledge of computers, operating systems, internet, computational techniques, file & data structure and the core of programming. After successful completion of the first two semesters of MCA, if a student wishes to discontinue the course, such a student shall be awarded the Post Graduate Diploma in Computer Application [PGDCA].

MCA is a course of 6 semesters with the provision of multiple exit degree system. Depending on the qualifications & conditions specified, different options are presented here.

Objectives: The course aims at realizing the following objectives-

- Providing specialization in computer science with technical, professional and communications skills.
- Train future industry professionals.

Eligibility: 3 year Graduation

Course Fee: I & II Semester: Rs.10,450/- per semester, III , IV, V and VI semester: Rs.11,450/- per semester inclusive of exam fees or as revised from time to time.

Minimum duration: 1 year (2 semesters) {for PGDCA}; 2 years (4 semesters) {for MScCS}; 3 years (6 semesters) {for MCA}.

Maximum duration: 2 years {for PGDCA}; 4 years {for MScCS}; 6 years {for MCA}.

Minimum counseling and hands-on experience at Learning Centers: 240 hrs/semester.

*For the list of approved institutions visit our website <http://dde.smuhmts.edu>

Course Structure

First Semester		
Sub. Code	Title	Credit
MC0061	Computer Programming "C Language"	4
MC0062	Digital Systems, Computer Organization & Architecture	4
MC0063	Discrete Mathematics	4
MC0064	Basic Web Development (Internet, HTML, Stylesheets & Basics of Multimedia)	4
MC0065	Financial Management & Accounting	4
Total Credits		20

Second Semester		
Sub. Code	Title	Credit
MC0066	OOPS using C++	4
MC0067	Database Management System (DBMS and Oracle 9i)	4
MC0068	Data Structures using C	4
MC0069	System Analysis & Design (SAD)	4
MC0070	Operating Systems with Unix	4
Total Credits		40

Lateral entry to the second semester of MCA

Eligibility: 3 year Graduation and six month Computer course from a reputed institution*.

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by the students opting under this scheme.

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of First Semester will be supplied by the University and internal assessment will be completed at the Learning Center.

Third Semester

Sub. Code	Title	Credit
MC0071	Software Engineering	4
MC0072	Computer Graphics	4
MC0073	System Programming	4
MC0074	Statistical & Numerical Methods using C++	4
MC0075	Compute Network	4
Total Credits		60

Fifth Semester

Sub. Code	Title	Credit
MC0081	.(DOT)Net Technologies	4
MC0082	Theory of Computer Science	4
MC0083	Object Oriented Analysis & Design using UML	4
MC0084	Software Project Management & Quality Assurance	4
MC0085	Advanced Operating Systems (Distributed Systems)	4
Total Credits		100

Fourth Semester

Sub. Code	Title	Credit
MC0076	Management Information Systems	4
MC0077	Advanced Database Systems	4
MC0078	Java Programming	4
MC0079	Computer Based Optimization Methods (Statistics/Applied OR)	4
MC0080	Analysis & Design of Algorithms	4
Total Credits		80

Sixth Semester

Sub. Code	Title	Credit
MC0086	Digital Image Processing	4
MC0087	Internetworking with TCP/IP	4
MC0088	Data Warehousing & Data Mining	4
MC0089	Project	8
Total Credits		120

