

(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         |
| <b>Total Credits</b> |  | <b>20</b> |

| 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         |
| <b>Total Credits</b> |   | <b>40</b> |

### 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.