

MASTER OF COMPUTER APPLICATIONS (M.C.A.) SYLLABUS

(With effect from the academic year 2009-2010 and onwards)

I Semester: (With effect from the academic year 2009-2010 and onwards)

M.C.A. 1.1(a): Accounting and Financial Management
M.C.A. 1.1(b): Additional Mathematics
M.C.A. 1.2: Digital Electronics and Computer Organization
M.C.A. 1.3: Discrete Mathematical Structures
M.C.A. 1.4: Computer Oriented Statistical Methods
M.C.A. 1.5: C and C++ Programming
M.C.A. 1.6: Programming Laboratory – I C and Statistical Computation Lab.
M.C.A. 1.7: Programming Laboratory – II C++ and Digital Electronics Lab.

II Semester: (With effect from the academic year 2009-2010 and onwards)

M.C.A. 2.1: Computer Oriented Numerical Methods
M.C.A. 2.2: Operating System Principles
M.C.A. 2.3: System Software and Compiler Design
M.C.A. 2.4: Database Management System
M.C.A. 2.5: Data Structures Using C++
M.C.A. 2.6: Programming Laboratory – III OS and Numerical computation lab.
M.C.A. 2.7: Programming Laboratory – IV Data Structures and DBMS Lab.

III Semester: (With effect from the academic year 2010-2011 and onwards)

M.C.A. 3.1: Software Engineering
M.C.A. 3.2: Data Communications and Computer Networks
M.C.A. 3.3: Computer Graphics
M.C.A. 3.4: Design and Analysis of Algorithms
M.C.A. 3.5: Visual Programming
M.C.A. 3.6: Programming Laboratory – V Computer Networks and Graphics lab.
M.C.A. 3.7: Programming Laboratory – VI Visual Programming Lab.

IV Semester: (With effect from the academic year 2010-2011 and onwards)

M.C.A. 4.1: Programming in Java
M.C.A. 4.2: Object Oriented Analysis and Design using UML
M.C.A. 4.3: Optimization Techniques
M.C.A. 4.4: Organizational Behavior
M.C.A. 4.5: Elective-I
M.C.A. 4.6: Programming Laboratory – VII OT and Java Lab.
M.C.A. 4.7: Programming Laboratory – VIII Software Engineering (Project).

V Semester: (With effect from the academic year 2011-2012 and onwards)

M.C.A. 5.1: Artificial Intelligence
M.C.A. 5.2: Internetworking and Web Design
M.C.A. 5.3: Modeling and Simulation
M.C.A. 5.4: Data Warehousing and Mining
M.C.A. 5.5: Elective - II
M.C.A. 5.6: Programming Laboratory – IX Client Server (Project)
M.C.A. 5.7: Programming Laboratory – X Simulation and AI lab.

VI Semester: (With effect from the academic year 2011-2012 and onwards)

M.C.A. 6.1: Project work, Seminar and Viva-Voce