

NORTH MAHARASHTRA UNIVERSITY, JALGAON

REVISED SYLLABUS FOR M.C.M. COURSE
WITH EFFECT FROM JUNE, 1997

M.C.M.

2 Years (4 Semesters) Course

Semester I

- Paper 101. Elements of Information Technology
- Paper 102. FOXPRO
- Paper 103. 'C. Programming
- Paper 104. Windows and M.S. Office
- Paper 105. Financial Accounting and Costing
- Paper 106. Practicals and Seminars

Semester II

- Paper 201. Software Engineering
- Paper 202. Foxpro II
- Paper 203. C Programming II
- Paper 204. Financial Accounting and Applications
- Paper 205. Principles and Practice of Management
- Paper 206. Practicles and Seminars

Semester III

- Paper 301. Data base Management Systems
- Paper 302. M.I.S.
- Paper 303. Quantitative Techniques I
- Paper 304. Data Structure
- Paper 305. Elective I
- Paper 306. Practicals and Seminars

Semester IV

- Paper 401. Unix
- Paper 402. Business Applications
- Paper 403. Quantitative Techniques II
- Paper 404. Project work
- Paper 405. Elective II
- Paper 406. Practicals and Seminar

Introduction

1. The name of the programme shall be master's degree course in computer management (M.C.M)
2. The knowledge and skills required to plan design and build complex application software systems as highly valued in all industry sectors including business, health, education and the arts. The basic objective of the master's programme in computer management (MCM) is to provide to the country a steady stream of competent young men and women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of information technology.
3. The job opportunities are:
 - a) Many graduates begin their careers as junior programmers and after some experience are promoted to programmers, systems analysts, programmer/analyst others seek entrepreneurial roles in the computer world as independent or suppliers of systems and equipment, career opportunities exist in such areas as management, software and hardware sales, technical writing, training others on computers, consulting, software development and technical support.
 - b) Application areas include transaction processing (such as order processing, airline reservations, banking systems), accounting function, sales analysis, games, Forecasting and simulations database management, design support and data communications.
4. Specific elective course to be offered in functional areas have to depend on student preferences, faculty availability and needs of the user systems in the region in which the educational institution is located.
5. a) The first year of the program is a mix of computer-related and general business courses. The computer-related course use microcomputers to introduce standard techniques of programming, the use of software packages including word processors, spreadsheets and databases ; systems analysis and design. The general business courses include the functional areas of management like accounting, sales, purchase, inventory and production. The course would emphasise the study and creation of business applications, rather than mere programming.
 - b) In the second year, students are exposed to system development in the information processing environment, with special emphasis on management information systems and software Engineering for small and medium computer systems. Also, exposure to microcomputer technology micro-based systems design and micro applications software including networks and graphical user interface system is provided.
6. Duration : The M.C.M. programme will be a full time two year's master's Degree course in computer management.
7. The new curricula would focus on imparting skills, rather than knowledge to students: in other words, less theory; more practical institutes should organise placement for their students in and around the region in which the educational institution is located.
9. Intake : IN each class, not more than 60 students will be admitted.

II) ELIGIBILITY FOR ADMISSION

Graduates possessing of any faculty of any statutory university shall be eligible for admission to the m.c.m course.

III) NUMBER OF LECTURES AND PRACTICALS

Lecures and practicals should be conducted as per the scheme of lectures and practicals.

IV) PRACTICAL TRAINING AND PROJECT WORK

At the end of the second year of study, a student will be examined in the course "Project Work".

- a) Project work may be done individually or in groups in case of bigger projects. However if project is done in groups, each student must be given a responsibility for a distinct module and care should be taken to see that progress of individual modules is independent of others.
- b) Students should take guidance from an internal guide and prepare a project report on "project work" in 2 copies to be submitted to the Director of the Institute by 30th November. Wherever possible, a separate file containing source-code listings should also be submitted. Every student should also submit at least 4 copies of their project synopsis. The respective Industries should forward one copy of this synopsis to each of the external panel members, in advance of the project viva dates.
- c) The project synopsis should contain an introduction to the project, which should clearly explain the project scope in detail. Also, Data Dictionary, DFDS, ERDs, File designs and a list of output reports should be included.
- d) The project work should be of such a nature that it could prove useful or be relevant from the commercial management angle.
- e) The project report will be duly assessed by the internal guide of the subject and marks will be communicated by the Director to the University after receiving the seat numbers from the university along with the marks of the internal credit for theory and practicals to be communicated for all other courses.
- f) The project report should be prepared in a format prescribed by the University which also specifies the contents and the method of presentation.
- g) The project work will carry 40 marks for internal assessment and 60 marks for external viva. The external viva shall be conducted by two external examiners.
- h) Project work can be carried out in the Institute or outside with prior permission of the Institute.
- i) The external viva-voce examination for project work would be held in march/April of the second year of study, by a panel of two external examiners.

V) ASSESSMENT

1. The final total assessment of the candidate is made in terms of an internal assessment and an external assessment for each course.
 - a) For each paper, 40 marks will be for internal assessment and 60 marks for year end examination (external assessment), unless otherwise stated.
 - b) The division of the 40 marks allotted to internal assessment of theory papers is on the basis of tutorial work and written test of 30 marks. Seminars and presentations 5 marks and attendance 5 marks.

c) The internal marks will be communicated to the university at the end of each ~~year~~ ^{Semester} but before the ~~semester~~ examination. These marks will be considered for the declaration of the results.

VI) EXAMINATION

Examinations shall be conducted at the end of year i.e. during April/May and also in October/November ~~for~~ ^{repeaters}

VII) STANDARD OF PASSING

a) Every candidate must secure 40% marks

Class	Total Marks
First class with Distinction	1680 and above
First class	1440 to 1679
Higher Second Class	1320 to 1439
Second class	1200 to 1319
Fail	1199 and below

x) ~~FEES FOR EACH YEAR~~

XI) MEDIUM OF INSTRUCTION

The medium of Instruction will be English.

XII) CLARIFICATION OF SYLLABUS

It may be necessary to clarify certain points regarding the course. The B.D.C should meet at least twice in a year to study and clarify any difficulties from the Institutes.

XIII) REVISION OF SYLLABUS

As the computer technology is changing very fast, revision of the syllabus should be considered every 3 years.

XIV) TEACHING AND PRACTICALS SCHEME

Each session will be of 1 hours duration.

XV) ADDITIONAL EFFECTIVES

Students who have obtained their M.C.M. degree, can do an additional elective course. This could be done at any of the recognised Institutes offering the M.C.M. programme. The fees for this elective would be Rs. 5000 per additional elective course. The University will issue only a statement of marks for this elective course undertaken. Original marks/class obtained by the student will not be changed.

XVI) MCM EQUIVALENCE STATEMENT

The last attempt for student enrolled for M.C.M. Part I 1996 will have to clear their subjects under the old syllabus by 2000 University examination and for students enrolled for M.C.M. Part II in 1997, will have to clear their subject as per old course by April 2001 University examination. Therefore, the equivalence to the old syllabus would be as detailed below:

A) If the candidate does not find equivalent subject in the new list, he/she loses credit for that subject.

B) The candidate has to appear for all the subject in the new list which he/she has not cleared earlier.

Equivalence

Existing Paper and Title	Proposed Paper and Title
1. Computer Fundamentals and Data Processing	1. Elements of Information Technology
2. System analysis & Design	2. Software Engineering.
3. Programming Language.	3. FORTRAN - I
4. Accounting & Financial Mgt	4. Financial a/c & costing
5. Quantitative Techniques	5. Q.T.
6. M.I.S.	6. M.I.S.
7. Data structure & algo.	7. Data structure & algo.
8. Data Base Mgt system	8. Data Base Mgt system
9. Unix	9. Data structure & algo.
10. Application	10. Business Application
11. C Programming	11. C Programming - I
12. Project Report	12. Project Report
13. Internals - Part - I	13. Practical - sem I
14. Internals - part - II	14. Practical - sem II