

ORDINANCE

OF

M.Sc.(Computer Science)

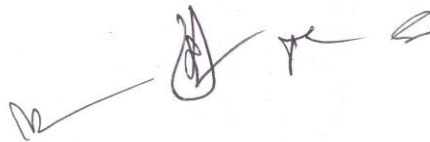
(Effective from session - 2015-16)

Annexure-E
MASTER OF SCIENCE (COMPUTER SCIENCE)
ORDINANCES

1. Master of Computer Science (M.Sc.) is a two years Degree Course divided into four semesters.
2. The academic session shall be divided into two semesters' viz. the First semester and the second semester etc. Each semester shall consist of as per U. G. C. norms, minimum 90 working days.
3. Each semester shall have 4 courses, besides Practicals, Seminars and tutorials/group discussion.
4. (a) There shall be internal assessment in each theory paper carrying 50 marks
(b) There shall be end semester examination in each theory paper carrying 50 marks
5. For internal assessment for each course, there shall be 3 periodical tests during the semester concerned, the time allowed for each test shall be 1(one) hour and the interval between any two consecutive tests in the same course shall not be less than ten days.
6. The periodical tests shall be conducted by the teacher concerned during the semester concerned and the answer books shall be shown to the examinees.
7. The division of the marks for internal assessment shall be as under:

| | |
|---|-----------|
| (a) First periodical test | 20 marks. |
| (b) Second periodical test | 20 marks. |
| (c) Third periodical test | 20 marks. |
| (d) Regularity / Class performance / Discipline | 10 marks. |

Best two of three Periodical Test will be considered.
8. For the remaining 50 marks of each paper, Semester Examination shall be conducting by the University
9. If the candidate fails to take a internal test due to authorized medical ground, the Institute may re-conduct the particular test for that candidate.
- 9 At the end of each semester, there shall be a term examination of 3 hours duration for each course and the same shall carry 50 marks.



10. There shall be a practical examination at the end of each term carrying 200 marks.
11. Prior to the commencement of each term-examination there shall be preparation leaves for not less than 7 days and not more than 10 days.
12. For each semester at least 50% of the theory papers shall be set by the external examiners (Out Side the Institute). The remaining papers shall be set by the faculty of the Institute.
13. In the last (fourth) semester there shall be internal/external project work of three to four months duration, which shall carry 200 marks. The project shall be completed under the guidance of an internal supervisor of the Institute. An internal examiner will evaluate the project report. The viva voce will be conducted by the concerned external examiner jointly with the internal supervisor who will act as the internal examiner.
14. The minimum qualifications for the admission to M. Sc. Course shall be:
A Bachelor's Degree [B.Sc. (Maths. , Physics / Chemistry / Statistics / Comp. Sci. / Electronics) Or B.C.A. Or B.Sc. (IT) Or B. Tech.] with 50% aggregate marks or any Bachelor degree along with mathematics at 10+2 level ~~or~~ PGDCA with 50% aggregate marks. The selection of candidates shall be made on the basis of written test conducted by competent authority or on the merit based of the qualifying examination.
15. A candidate who has been admitted to M.Sc. course shall be required to attend and Participate in all four semesters to be organized by the Institute.
16. Marks shall be assigned as under:

| | | <u>Marks</u> | <u>No. of Courses</u> | <u>Total Marks</u> |
|----------------------|-------------------------|--------------|-----------------------|--------------------|
| I st Sem | Internal Assessment | 50 | 4 | 200 |
| | Term Examination | 50 | 4 | 200 |
| | External Practical Exam | | 1 | 200 |
| II nd Sem | Internal Assessment | 50 | 4 | 200 |

| III rd Sem | | IV th Sem | |
|----------------------------|-------------------------|----------------------|-------------|
| | External Practical Exam | | |
| | Internal Assessment | 50 | 4 |
| | Term Examination | 50 | 4 |
| | External Practical Exam | | 1 |
| | Internal Assessment | 50 | 4 |
| | Term Examination | 50 | 4 |
| | External Practical Exam | | 1 |
| | Project Work | 200 | 1 |
| Aggregate of Maximum Marks | | | <u>2600</u> |

17. To pass a course, a candidate shall be required to secure, in each semester, at least 40% marks in the examination of each of the courses, internal assessment and practical Examination^s with an overall aggregate of 50% marks provided that a candidate shall not be entitled to be declared successful at the M.Sc. examination unless he/she has secured at least 50% marks in the aggregate of all four semesters.
18. (a) If the candidate have repeat in more than 50% of theory papers of external examination of a year he/she has to reappear in all the papers of that year.
 (b) A candidate who has been declared successful in the M.Sc. Examination shall be awarded M. Sc. degree. If candidate has secured 60% or more, he shall be awarded 1st Division otherwise he shall be placed in IInd Division. If a candidate has secured 75% or more marks in the aggregate of four semesters, it shall be mentioned in his degree that he/she has passed M.Sc. Examination with Distinction.
19. If a student fails in a course, he/she may have the option to re-appear in that course .He can reappear both in the internal test , external tests and practical, in the course in which he had failed If he have to repeat in more than 50% of theory papers of internal or external examination of a year he/she has to reappear in all the papers of that year.
20. A candidate shall have to complete M.Sc. with in maximum period of 4 years.
21. A candidate must pass internal examination and posses' 75% attendance to appear in the final semester examination.



23. (a) Anything, not covered under the Ordinances of foregoing subject be decided by the Academic Committee of the Institute without prejudice to the powers of the Academic Council, the Executive Council, Admission committee and Examination Committee of the University.

(b) Institute Academic Committee shall constitute the following :-

- (1) Two external experts out side the University as appointed by Hon'ble Vice Chancellor.
- (2) Senior most Professor (Prof. Representative), senior most Reader (Reader Representative), senior most Lecturer (Lecturer Representative).
- (3) Director of the Institute is the convener of the Academic Committee.

The duration of the committee shall be at least two years.

(c) The Academic committee shall be responsible for syllabus of the courses and Research activities including registration for Ph. D., D. Sc. or other degrees.

24. The Academic committee shall also function as Board of Studies and Research Degree Committee (registration Doctorate Degree in the Department).

COURSE STRUCTURE

Each student will be required to complete 4 courses and practical in each semester

COURSES OF STUDY

FIRST YEAR

| Semester – I | Papers: |
|--------------|--|
| C-101 | Computer Organization and Architecture |
| C-102 | Programming Concepts Using C |
| C-103 | Digital Electronics |
| C-104 | Discrete Mathematics |
| Practical | Based on above subjects |

Semester – II Papers:



C-201 Data Structure Using C/C++
C-202 Operating Systems
C-203 Object Oriented Programming Using C++
C-204 Computational Numerical Analysis

Practical Based on above subjects

SECOND YEAR

Semester – III

Papers:

C-301 Database Management Systems
C-302 Software Engineering
C-303 Optimization Techniques
C-304 Internet and Web Technology
Practical Based on above subjects

Semester – IV

Papers:

C-401 Computer Communication Network
C-402 Artificial Intelligence
C-403 Analysis & Design Of Algorithms
C-404 Computer Graphics
Practical Based on above subjects

Project : internal or external

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