



DEPARTMENT OF MATHEMATICS

**MA699 MSc Project**  
Regulations and Guidelines

**(A) Objectives**

In the project course MA699, the student should be able to

- Undertake detailed literature review as a way of information search.
- Carry out detailed investigations (theoretical / computational / practical) as a way of solving project problem.
- Write and put together a detailed report of the investigations carried out to a scientifically acceptable standard at the end of fourth semester.

**Course Content:** The course is an individual investigation into an assigned problem in mathematics/statistics or in computing, using established research techniques such as literature surveys, analytical or numerical work to solve the problem. Ideally, the chosen problem should have enough content on both the mathematical aspects and the computational aspects. Examination is on the basis of a treatise and an oral presentation.

The course 'MA699' is a compulsory course with 12 credits in the fourth semester.

The students are advised to meet with their project supervisors regularly. They are expected to choose the problem in consultation with their supervisors and also report the progress in the project work to their supervisors regularly.

**(B) Guidelines to prepare the Project Report**

The report/document of the project work should comply to the following specifications:

- The report must contain a good introduction of the work covering all the basic definitions/theories which are needed to understand the work with proper citations.
- The report must be neatly typed using  $\text{\LaTeX}$  software. The format is: Sty file:A4wide, 12 point letter size and Times New Roman font.

- The final copy of the report must be printed on a good quality A4 size paper.
- The text of the report should be double (=24pt) or one-and-a-half (=18pt) lines spaced. The reference/bibliography may be single (=12pt) line spaced.
- Top, bottom, and both side margins must be at least an inch (1”) to allow for binding and trimming. You may give more space on the left side as you have to make bound copy of the report later. All information (text headings, notes, and illustrations), excluding page numbers, must be within the text area.
- The following order of presentation be followed:
  - Title page (See the sample report)
  - Certificate (See the sample report)
  - Acknowledgement (optional)
  - Dedication (optional)
  - Abstract
  - Table of contents
  - List of figures (if any)
  - List of tables (if any)
  - List of symbols or Notation (if any)
  - Main text (that is, Chapters) (For example, Chapters: Introduction, Chapters covering actual work, Conclusions, etc.)
  - References / Bibliography
  - Appendices (if any)
- The entire report (including title page, prefatory material, illustrations, and all text and appendices) must be paginated. Every page must be included in the count regardless of whether a number is physically printed on a page.
 

The title page is always considered to be page 1 (Only this page number will not be physically printed on it, because it is the title page. See the sample report. In all other pages, the page number will be printed on it). All the pages preceding before the first chapter must be numbered in Roman numerals. Again, the first page of the first chapter is always considered to be page 1 and the following pages must be paginated in one consecutive numbering sequence. All the pages starting from the first page of the first chapter must be numbered in Arabic numerals.
- For your reference, a model report is attached along with this guidelines. The students are advised that they should follow the pattern given in the model report.
- In the model report, the title page, the certificate page are given. The students need to fill in the appropriate places. The main L<sup>A</sup>T<sub>E</sub>X file is report.tex, and the other files are needed to support this main file. A model ‘bib.bib’ file is also given, and you may use this to type the references (as per the classifications such as books, articles, proceedings, etc.).
- Referencing in the report should be as per the model given in the sample report and it should be followed consistently.

## (C) Submission of the Report and Oral Examination

1. The student is required to submit THREE unbound copies of the final report (document), prepared according to the prescribed format (refer the previous section) of his/her complete work of the project

to the Project Coordinator on or before the specified date. The last date for submission of the project report is mentioned in the academic calendar.

2. The project report will be circulated by the Project Coordinator to the members of the project evaluation committee (PEC). The time, date and venue of the viva-voce examination of MA699 will be informed to the concerned student and the members of PEC by the Supervisor/Project Coordinator.
3. The student is required to present the work of Project to PEC on the date of viva-voce examination.
4. The student is allowed to present the work on the black board or on overhead/LCD projectors depending on the availability of the facility for approximately 20 minutes.
5. The presentation will be followed by questions from the members of PEC and then also from the audience.
6. At the end of the final viva-voce examination, the corrections/modifications (if any) suggested by the members of PEC are to be incorporated to the satisfaction of the supervisor.
7. At the end of the viva-voce examination of MA699, the members of PEC may also provide suggestions for your project work.
8. On successful completion of the viva-voce examination of MA699, each student is required to submit one copy (soft bound) of the corrected report of the project to the Project Coordinator and one copy to the Project Supervisor.

## (D) Evaluation of MA699

MA699 course will be evaluated by the Project Evaluation Committee (PEC) based on the work done in this semester towards his/her project work (which can be measured/judged from the report) and the performance of the student in the viva-voce examination. The following is the probable scheme of the evaluation.

	Maximum Marks
Marks for the report of the project work (by PEC)	<i>a</i> marks
Marks for the understanding/command over the topic (by PEC)	<i>b</i> marks
Marks for the final presentation in the viva-voce exam (by PEC)	<i>c</i> marks
Marks for answering questions in the viva-voce exam (by PEC)	<i>d</i> marks
Total	$= a + b + c + d \leq 100$ marks

The PEC, while awarding marks, will also make sure that the guidelines for the preparation of the report are followed and the report is in the prescribed format.

Over the marks decided by the PEC, the Project Coordinator will impose penalty for late submission of project report as per the following scheme:

1. After the due date, up to five days 2 marks for each day will be deducted.
2. From sixth day to the day prior to the commencement of End Semester Examinations, 4 marks for each day will be deducted.
3. After that, the report will not be accepted and the student will be awarded an F grade.

If any student, because of health reasons or any other genuine reason, either fails to complete his/her project work or fails to submit the report or fails to appear for the viva-voce examination, the student will be temporarily awarded I grade. He/she should get in touch with the Project Coordinator for further course of actions. F grade will be awarded if the student fails to submit the report or fails to appear in the viva-voce examination without any genuine reason, or fails in the course.