



**Computer Science Paper VI  
Project (Elective)**

<b>Semester: III</b>	<b>Credits: 4</b>	<b>Subject Code: MSE32006</b>	<b>Lectures: -</b>
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**Course Outcomes:**

**At the end of this course, the learner will be able to:**

- Use data structures, algorithms and programming languages, and software engineering techniques in their projects.
- Develop a wide range of skills like communication, teamwork and technical skills.
- Design, construct and deliver a system and meeting the stated requirements.
- Examine and assess significant programming projects.
- Analyse and test the resulting system in quality computer software solutions.

**Unit 1: Project Guidelines:**

- Students should work in a team of minimum 2 and maximum 3 students.
- Students can choose a project topic without any restriction on technology or domain by giving project synopsis (Project Proposal).
- The student group will work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, implementation, testing, and the final reporting.
- Each student within the group must work actively and contribute to the assignments, project work and report writing.
- Project guide must conduct project presentations to monitor the progress of the project groups.
- Assessment will be done weekly in the respective batch.
- Evaluation will be on the basis of weekly progress of project work, progress report, oral, results and documentation and demonstration.
  - Student should fill your status of the project work on the progress report and get the Signature of project guide regularly.
  - Progress report should sharply focus how much time you have spent on specific task. Student should keep all signed progress report.
  - At the end of the project, the group should prepare a report which should conform to international academic standards. The report should follow the style in academic journals and books, with clear elements such as: abstract, background, aim, design and implementation, testing, conclusion and full references, Tables and figures should be numbered and referenced to in the report. Number of copies: For one project you should prepare 2 copies of the project report. One for yourself, one for college.
  - The final project presentation with demonstration will be evaluated by the project guide and one external examiner.
  - Project Evaluation: (50+50 Marks)
    - Internal Evaluation=50 Marks by Project Guide

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- External Evaluation=50 marks by External Examiner


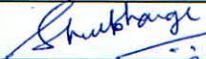
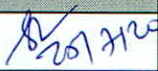

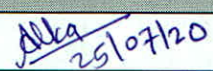
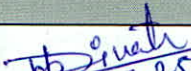

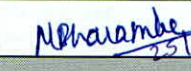
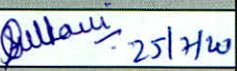
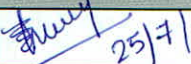
**Unit 2: Recommended Documentation contents:**

- Abstract
- Introduction
  - motivation
  - problem statement
  - purpose/objective and goals
  - literature survey
  - project scope and limitations
- System analysis
  - Existing systems
  - scope and limitations of existing systems
  - project perspective, features
  - stakeholders
  - Requirement analysis- Functional requirements, performance requirements, security requirements etc.
- System Design
  - Design constraints
  - System Model: UML diagrams
  - Data Model
  - User interfaces
- Implementation details -Software/hardware specifications
- Outputs and Reports
- Testing
  - Test Plan, Black Box Testing or Data Validation Test Cases, White Box Testing or Functional Validation Test cases and results
- Version Control Systems
- Performance Evaluation
- Conclusion and Recommendations
- Future Scope
- Bibliography and References

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St. Mira's College for Girls, Pune  
(S. Y. M. Sc. 2020-2023)

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