



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

Semester: III	Credits: 4	Subject Code: MSE32006	Lectures: -
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Course Outcomes:
<p>At the end of this course, the learner will be able to:</p> <ul style="list-style-type: none"> ● 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:
<ul style="list-style-type: none"> ● 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. <ul style="list-style-type: none"> ○ 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) <ul style="list-style-type: none"> □ Internal Evaluation=50 Marks by Project Guide

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- External Evaluation=50 marks by External Examiner



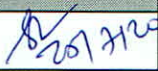

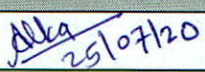

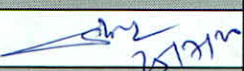

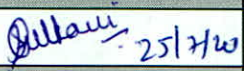
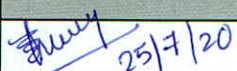
Unit 2: Recommended Documentation contents:

- 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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