



Computer Science Paper XI
Project
[SECC-II]

Semester: VI	Credits: 2	Subject Code: BS62211	Lectures: 36
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Course Outcomes:

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

- Use data structures, algorithms and programming languages, and software engineering techniques in their projects.
- Distinguish significant programming projects.
- Analyze and test resulting system's quality for computer software solutions.
- Develop a wide range of skills like communication, teamwork and technical skills.
- Design, construct and deliver a system and meet the stated requirements.

Project Guidelines:

- Students should work in a team of minimum 3 and maximum 4 students.
- Students can choose a project topic and implement the same using any language/technology covered in the curriculum so far. The operating environment must be Linux.
- 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.
- Project guide must conduct project presentations (minimum 2) to monitor the progress of the project groups.
- 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.
- The final project presentation with demonstration (UE) will be evaluated by the project guide (appointed by the college) and one external examiner (appointed by the University).

Unit 1: Recommended Documentation contents:

- **Abstract**
- **Introduction**
 - motivation
 - problem statement
 - purpose/objective and goals
 - literature survey

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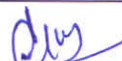


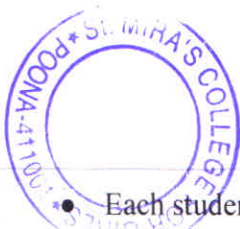
- project scope and limitations
- **System analysis**
 - Existing systems
 - scope and limitations of existing systems
 - project perspective, features
 - stakeholders
 - Requirement analysis –Functional requirements, performance requirements, security requirements etc.
- **System Design**
 - Design constraints
 - System Model: Using OOSE
 - 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
- **Conclusion and Recommendations**
- **Future Scope**
- **Bibliography and References**

Project Related Assignments

Guidelines:

- The project assignments are a compulsory part of the project course and should be carried out by each project group.
- Project assignments are to be given by the guide for continuous internal evaluation.
- The project assignments are to be allotted to each group separately by the project guide on the basis of the implementation technology. A suggested list of assignments is given below.
 - Project Time management: plan (schedule table), Gantt chart, Roles and responsibilities, data collection, Implementation
 - Simple assignments to evaluate choice of technology
 - Assignments on UI elements in chosen technology
 - Assignments on User interfaces in the project
 - Assignments on event handling in chosen technology
 - Assignments on Data handling in chosen technology
 - Online and offline connectivity
 - Report generation
 - Deployment considerations
 - Test cases

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• Each student within the group must work actively and contribute to the assignments, project work and report writing.

Evaluation guidelines:

- **IA (15 marks)**
 - First presentation – 5 Marks
 - Second presentation – 5 Marks
 - Assignments – 5 Marks
- **UE (35 marks)**
 - Project Logic/ Presentation – 20 Marks
 - Assignments and Project Documentation – 10 Marks
 - Viva – 5 marks

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