Computer Science Paper XI
Project
[SECC-II]

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

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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