M.Sc.-II

Computer Science



Savitribai Phule Pune University

(Formerly University of Pune)

Two year M.Sc. Degree Program in Computer Science (Faculty of Science & Technology)

M.Sc.- II (Computer Science)

Choice Based Credit System Syllabus To be implemented from Academic Year 2020-2021

CSDT234C: Project

Total Credits: 2

Teaching Scheme
• Project: 2 hours/week

• Batch Size: 5 students

Workload :

- 1. One project guide to be assigned to 5 students.
- 2. 2 hours /week to be allotted for 5 students

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.
- 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).

Evaluation guidelines:

IA (15 marks)			UE (35 marks)		
First presentation	Second presentation	Documentation	Project Logic/Presentation	Documentation	Viva
5	5	5	20	5	10

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

Conclusion and Recommendations

Future Scope

Bibliography and References

CSDP234C: Project Related Assignments

Total Credits: 2

Teaching Scheme

• 2 lectures/week

Workload :

• 2 lectures/week

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.
 - 1. Project Time management: plan (schedule table), Gantt chart, Roles and responsibilities, data collection, Implementation
 - 2. Simple assignments to evaluate choice of technology
 - 3. Assignments on UI elements in chosen technology
 - 4. Assignments on User interfaces in the project
 - 5. Assignments on event handling in chosen technology
 - 6. Assignments on Data handling in chosen technology
 - 7. Online and offline connectivity
 - 8. Report generation
 - 9. Deployment considerations

10. Test cases

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

Evaluation guidelines:

IA (15	marks)	UE (35 marks)		
Attendance	Assignments	Assignments	Viva	
5	10	25	10	