

Department of Electronics and Communication Engineering
UCEST105– Algorithmic Thinking with Python Lab
Project Proposal

Title of the Project:

Name of Project Group (if any):

Name of the students (*Max 3 students*):

Roll No	Name

Background:

[Why is the project being undertaken? Describe an opportunity or problem that the project is to address.]

Problem Statement:

[Write a single sentence problem statement that you are trying to solve.]

Objectives:

[The specific, measurable outcomes that a project aims to achieve within a defined timeframe. There should be atleast one objective]

Objective 1:

Objective 2 (if any):

Objective 3 (if any):

Scope:

[What will be the result of the project? Describe what all work will be undertaken. Explain using a block diagram.]

Tasks:

[Split the complete project into small tasks. List the tasks and explain them. You can add more tasks if needed.]

Task No:	Description
T1	
T2	
T3	

Tools to be Used:

[What all softwares and hardwares are needed?. What programming language are you using?]

Software:

Hardwares:

Programming Language:

Deliverables:

[What you should show/demonstrate during the evaluations]

Interim Evaluation 1

- Project Proposal Document (problem statement, objectives, scope, expected outcomes).
- System Design (flowchart, pseudocode, or architecture diagram).
- Initial Codebase with basic functionality implemented.
- Presentation Slides summarizing the above.

Interim Evaluation 2 (Progress Review – ~60–70% completion)

- Updated Codebase showing significant progress toward the final solution.
- Documentation (updated design, module descriptions, challenges faced, modifications to plan).
- Preliminary Testing Results (unit tests, sample input/output, performance checks).
- Demonstration of partially working project.

Final Evaluation (Complete Project)

- Complete Working Codebase (well-commented and organized).
- Final Report (introduction, methodology, design, implementation, results, conclusion, references).
- Test Results & Validation (test cases, performance metrics, screenshots/plots).
- User Manual / Installation Guide (if applicable).
- Project Presentation & Live Demonstration of the final system.

Timeline:

[Explain what tasks you are planning to complete and demonstrate a result to the faculty at the end of each week starting from September 8.]

Week No:	Description of tasks/output you are planning to complete and demonstrate to faculty
Week 1 (Sep 8– Sep 14):	
Week 2 (Sep 15– Sep 21): Interim Evaluation 1	What are you planning to show in evaluation 1?
Week 3 (Sep 22– Sep 28):	
Week 4 (Sep 29– Oct 6):	
Week 5 (Oct 7– Oct 13):	
Week 6 (Oct 14– Oct 20):	
Week 7 (Oct 21– Oct 26): Interim Evaluation 2	What are you planning to show in evaluation 2?
Week 8 (Oct 27– Nov 2):	
Week 9 (Nov 3– Nov 9):	
Week 10 (Nov 10– Nov 17):	
Week 11 (Nov 18– Nov 20): Final Evaluation	What are you planning to show in final evaluation?

Conclusion:

[Write a conclusion for the project proposal (not for the project).]

References: