

# 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.]*

<b>Week No:</b>	<b>Description of tasks/output you are planning to complete and demonstrate to faculty</b>
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:**