<div align="center">

Mini-Project Synopsis
Advanced Programming Lab (ICT 3166)

</div>

1. **Project Title:** Academic Building Map Project

2. **Team Members:**

Sl#	Full Name	Reg#	Roll#	CCE section_name
1	Laasya Reddy Pathuri	210953170	25	C1
2	Shreyas B S	210953078	19	C1
3	Sanjeev Kumar	210953017	07	C1

3. **Abstract**

This project aims to enhance the campus experience for students, faculty and visitors with a comprehensive and user-friendly map of AB-5 for smooth and efficient navigation through the complex and confusing structure of the building.
By offering an intuitive digital map with easy search functionality, it enhances navigation, promotes inclusivity, and advances technological integration. This initiative will transform our educational institution into a more accessible, and modernized space.

4. **Project Details:**

The project consists of a web page which displays an interactive map showing all the faculty chambers, laboratories, classrooms of a specific floor. The user can choose which floor he wishes to see by selecting the floor number from the list provided. The map will show details of the classrooms, floor in-charges, details of faculties and other data. The user can see more information in depth by clicking on any of these room. Users can access detailed information and other essential facilities by simply clicking on the specific locations. The map is responsive and mobile friendly, allowing users to access it seamlessly from various locations. The project will be designed with scalability in mind, allowing for future expansion to cover other areas of the college campus, if desired.

5. **Expected Result:**

Improved Campus Experience: The project aims to significantly enhance the overall campus experience by reducing navigation challenges.

Increased Efficiency: Students will save time and effort in finding labs, classrooms, faculty chambers, and cafeterias, leading an easier and more streamlined academic environment.

Scalability: The developed system will be scalable, allowing for future expansion and integration with other campus services and technologies.

6. **Python Concepts used:**
   1. Python UI: Flask.
   2. Database used: SQLite.
   3. Data stored in: JSON format.