



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad
Accredited by NBA & NAAC, an ISO 9001:2015 Certified Institution
Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

on "Mobility of Drone".

Abstract

This drone delivery project aims to create a reliable and efficient system for delivering attendance registers, papers, and messages from the Head of the Department (HOD) to the respective classrooms. The project will involve the design and development of a custom-made drone that is capable of carrying small payloads, navigating through indoor and outdoor spaces, and landing and taking off in designated areas. The system will be equipped with sensors and software that enable it to avoid obstacles, detect and respond to weather changes, and communicate with the control station. The project will also include testing the system under various conditions to ensure its safety, accuracy, and feasibility. If successful, this project has the potential to reduce the workload of college attenders and improve the efficiency and accuracy of message and attendance register delivery.

H/W & S/W Requirements

Drone, Flight Controller, Sensors, Batteries, Camera(not required if built-in camera is available in drone), VSCode IDE, OpenCV, DroneKit Python Libraries, Computer vision technology.

OS: Windows, Linux, Mac.

Programming language: Python

Technology: Drone Programming, Computer Vision

Library: DroneKit, OpenCV

*Dept R&D: Yes / No

* If No : GNITS



21251A05D8
Pravalika Gandhamalla
rareone.pr@gmail.com
7416860330



21251A05F8
Sana Sultana
sanasultana2004@gmail.com
9550313218


Project Coordinator


PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for woman)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104.


Head of Department