**MINI PROJECT**

**Batch No: A-25**

**Abstract Proforma**

**Academic Year:** 2020-21 Date: 03-04-2021

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| **Year & Branch:** III Year ECE II Semester | | **Section: A** |
| **Student Registration Details** | 1. Bakshi Vishal ( 187Y1A0455 ) 2. P. Vamshi Krishna ( 187Y1A0451 ) | |
| Name & Roll Numbers |
| **Name of the Guide & Designation** | Dr. G. AMARNATH Ph.D. ( Associate Professor) | |

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| **Area (Domain) of the Project** | ROBOTICS AND AUTOMATION |
| **Title of the Project** | **AUTONOMOUS DRONE FOR AUTOMATIC DELIVERY SYSTEM.** |
| **Tools Required** | 1. UBUNTU 16.04 LTS 2. ROS (ROBOTICS OPERATING SYSTEM) KINETIC 3. GAZEBO SIMULATION |

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| **Abstract** |
| In the modern era, major companies like Amazon, Flipkart are implementing delivery of a product from place to place on a very large scale. Due to the heavy traffic issues faced by the delivery assistants all over the world, we have come up with a solution called autonomous navigated delivery using drones, where they carry the product from the warehouse to the destination of the buyer. Implementing this idea using drones will help reduce time, energy and money. Robot Operating System (ROS) is a framework for Linux, which provides ample resources and development frameworks within it that makes robot development easy, flexible, robust and faster. Using ROS (Robot operating system) in Ubuntu kernel, we simulate and program the drone to autonomously hover from a place and travel to a distance with avoiding all the obstacles by interfacing the camera as the primary sensor and land with accuracy. |

**Signature of the Guide**  **Project Coordinator HOD-ECE**