

**Savitribai Phule Pune University
(Formerly University of Pune)**



**Department of Technology
Board of Studies**

Electronics & Electrical (EE) Technology

STRUCTURE OF CERTIFICATE COURSE IN INTRODUCTION TO DRONE TECHNOLOGY

Course Name: Certificate Course in Introduction to Drone Technology

Duration: Two Weeks/ 10 working Days

Eligibility Criteria: SSC Pass

Course Contents-

TOPIC	TRAINING TYPE
INTRODUCTION	THEORY
DGCA AND QCI REGULATIONS ON RPAS	THEORY
THE UAS RULES (DRAFT)	THEORY
INTRODUCTION TO DIGITAL SKY PLATFORM	THEORY
LOS AND BVLOS	THEORY
FUNDAMENTALS OF FLIGHT	THEORY AND PRACTICAL
DRONE SENSORS AND PAYLOADS	THEORY
UAS TYPES AND MECHANISM	THEORY AND PRACTICAL
MULTI-ROTOR	THEORY AND PRACTICAL
PYLON/ARM	THEORY AND PRACTICAL
LANDING GEAR	THEORY AND PRACTICAL
PDB	THEORY AND PRACTICAL
PROPELLER	THEORY AND PRACTICAL
UAS BATTERY	THEORY AND PRACTICAL
UAS BATTERY CHARGER	THEORY AND PRACTICAL
FLIGHT CONTROLLER	THEORY AND PRACTICAL
GPS	THEORY AND PRACTICAL
POWER MODULE	THEORY AND PRACTICAL
INSTRUMENTS LIGHTS AND SIGNALS	THEORY AND PRACTICAL
RADIO TRANSMISSION AND RECEPTION	THEORY AND PRACTICAL
AUTONOMOUS FLIGHT SOFTWARE	THEORY AND PRACTICAL
INTRODUCTION TO MISSION PLANNER AND ITS PARAMS	THEORY AND PRACTICAL
DRONE LINK	THEORY AND PRACTICAL
MANDATORY CALIBRATION PROCESS	THEORY
ATC PROCEDURES AND RADIO TELEPHONY	THEORY
EMERGENCY IDENTIFICATION	THEORY
SIMULATION SESSION	PRACTICAL

PAYLOAD, INSTALLATION AND UTILIZATION	PRACTICAL
OPERATIONS OF UAS	PRACTICAL
APPLICATION OF UAS	THEORY AND PRACTICAL
ASSEMBLY AND FLIGHTS	THEORY AND PRACTICAL
MISCELLANEOUS AND REFERENCES	