



A Three day Workshop on “Customization of Commercialized Agricultural Drones” The Resource Person is **Mr. A. GOPI RAJA**, Chief Executive Officer, Fopple Drone Tech Pvt. Ltd. Kankipadu, Vijayawada, Krishna dist.

OBJECTIVES:

- Beyond surveillance and delivery applications, UAVs are used for drone journalism, search and rescue, disaster response, asset protection, wildlife monitoring, firefighting, communications relay, healthcare and agriculture.
- To develop a lightweight drone with Autonomous Devices thrust vectoring technology that will allow the system to approach and fly near to surfaces and to orientate the system to scan surfaces regardless of their orientation.
- To modify the GPR system and antenna for use on a drone, optimising the scanning capability of the system.
- To develop a mapping algorithm for automatic flight and full scanning coverage of a dam structure, the use of a combination of SLAM, real time local sensing, LIDAR and GPS.
- To develop a communication system to wirelessly transfer the data from the drone to the operator's system and to generate a map of the scanned structure for inspection.

DAY-1

MORNING SESSION:

In this session the resource person explained about Introduction to Drones History of Drones, Types of Drones and Applications of Drones like Search and rescue, Security, Surveillance, Aerial photography & video (recreation), Surveying & GIS (mapping).

AFTERNOON SESSION:

In this session the resource person explained about Agricultural drones are drones applied to farming in order to help increase crop production and monitor crop growth. Through the use of advanced sensors and digital imaging capabilities, farmers are able to use these drones to help them gather a richer picture of their fields. Information gathered from such equipment may prove useful in improving crop yields and farm efficiency.

Day-2

MORNING SESSION:

In this session the resource person explained about UAV making concepts, Drone making, Drone Hardware & simulation software execution method relating to them. A Drone, commonly known as Unmanned Aerial Vehicle (UAV) is essentially flying ROBOT (The air vehicles that do not carry a human operator). The aircraft may be remotely controlled or can fly autonomously through software-controlled flight plans in their embedded system working in conjunction with onboard SENSORS and Global Positioning System (GPS).

AFTERNOON SESSION:

In this session the resource person explained about Components of a drone like Frame, Propellers, Motors, Flight controller, Power source, Structure, Description of block diagram and components, calculation & calibration concepts and how these components are assembled to preparation of Drones with hands-on experience to the students.

Day-3

MORNING SESSION:

In this session the resource person explained about demonstration of flying, DGCA safety regulation and develop safety attitude while flying drones and basics of drone piloting. Hovering, take-off and landing and patterns to practice by the students.

AFTERNOON SESSION:

In this session the resource person explained about different types of multi rotors, Quad, Hexa, co-axial drones, and explain about some IOT based applications and developing and innovative application with Drones.

OUTCOME:

Students understand how to prepare a drone by the hardware components and installation of software to simulate the drone before operating the drone as physically manner and how to calculate the calibration of flight controllers for different drones like quad, Hexa co-axial drones with hands-on experience.

In this session, members of the Drone technology Mr. N. Hemanth Kumar. In charge BBA, Mr. P. Vasu, Lecturer, Department of Computers. Mr.R.Uday Kumar, In-charge Department of Electronics, Mr. P.Vishnu Vardhan, Department of Electronics. Sri Y. Jagadeesh, Faculty, Department of MBA and also 125 students from BBA, BCA, B.Com. (COMP),B.Sc (MECS),B.Sc(IOT),MCA, MBA have participated the programme.

PHOTO GALLERY

Day - 1 (13th October, 2022)



**Talk by Mr. A. GOPI RAJA, Chief Executive Officer, Fopple Drone Tech Pvt. Ltd.
Kankipadu, Vijayawada**



Dr. V. Narayana Rao, Principal, addressing the students

Day - 2 (14th October, 2022)





Day - 3 (15th October, 2022)





Vijayawada, Andhra Pradesh, India

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BROCHURE

Day 01

Morning Session

- Introduction to Drones
- History of Drones
- Types and Applications of Drones
- Drone Hardware and Software
- Working of Drones

Afternoon Session

- UAV Making
- Drone Making
- Drone simulation

Day 02

Morning Session

- Drone Making
- Ready to Fly

Afternoon Session

- Demonstration of Flying
- DGCA safety regulation & develop safety attitude while flying drones
- Basics of drone piloting

Day 03

Morning Session

- Drone Piloting
- Hovering
- Takeoff and Landing
- Patterns Practice (Square, Square Wave)

Afternoon Session

- Lot based Applications
- Different types of multi rotors
- Quad, Hexa, Octa, co axial drone
- Flying Practice & Completion




THREE-DAY WORKSHOP

“Customization of Commercialized Agricultural Drones”

Save Your Dates

Day 01 – 13th October, 2022
 Day 02 – 14th October, 2022
 Day 03 – 15th October, 2022

@ 09:00 A.M. to 05:00 P.M.

Limited seats are available.

Book your seats now for the most awaited Drone workshop

Drone Technology waits for you.

REGISTRATION FEES: 500/- only




Contact:

For Morning Session:
Mr. N. Hemanth Kumar, In-charge, BBA
Mr. S. Vasu, Lecturer, Department of Computers

Afternoon Session :
Mr. R. Uday Kumar, In-charge, Department of Electronics
Mr. P. Vishnu Vardhan, Lecturer, Department of Electronics

PG:
Mr. Y. Jagadeesh, Lecturer, Department of MBA

CERTIFICATE



ISO 9001-2015 CERTIFIED

KAKARAPARTI BHAVANARAYANA COLLEGE

(Sponsored by S.K.P.V.V. Hindu High Schools' Committee) (AUTONOMOUS)

Kothapeta, Vijayawada - 520 001.

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Recognized as Band PERFORMER in ARIIA by Ministry of Education, Govt. of India

NAAC 'A' GRADE CYCLE 3

Participation Certificate

This is to certify that _____ of _____

bearing Roll No: _____ has participated in the workshop of Customization of Commercialized Agricultural Drones, In Association with

FOPPLE Technologies, Organized by K.B.N. College (Autonomous), Vijayawada from 13th October to 15th October, 2022 (3 days).

Convener

Dr. V. Narayana Rao

Principal