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INTRODUCTION

Introduction to Drone Technology Workshop:

Department of Electronics and Telecommunication Engineering Students Association (ETSA) organized 2 days workshop on " Drone Technology " under lead college scheme Shivaji University Kolhapur, which was conducted on 03 & 04 December 2022 at Tatyasaheb Kore institute of engineering and technology, Warananagar

Resource Persons:

1) Dr. A. B. Kakade

M.Tech PhD (T, Kharagpur)

Professor, E&TC Dept. RIT, Sakharale

Founder : Anand Techno Creations, Sangali

2) Prof. R. J. Patil

Assistant Professor,

E&TC Dept. RIT, Sakharale

3) Mr. Sudhanshu Ramesh Suryawanshi

B.Tech. E&TC

Drone Expert

No. of Participants: 100 Student

POSTER DESIGN

Shree Warana Vibhag Shikshan Mandal's Establishment in 1983



TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY



Warananagar, Tal: Panhala, Dist: Kolhapur, 416113 Ph. (02328) 224012/13

NAAC
Grade with
3.27 CGPA

Permanent Affiliation by
Shivaji University, Kolhapur

— AN AUTONOMOUS INSTITUTE —

5 Times PLATINUM category Institute
Rating by AICTE CII Survey

2 Times NBA
Accredited

ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT


Department of Electronics & Telecommunication Engineering Students Association

ETSA

Organizes Two Days Workshop On

DRONE TECHNOLOGY

Under Lead College Scheme



SHIVAJI UNIVERSITY, KOLHAPUR



03 & 04 December 2022

Mr. Harshal Nikam
Student Coordinator

Prof. P. V. Lokhande
Workshop Coordinator

Prof. C. P. Shinde
HOD, E&TC

Dr. Sunil V. Anekar
Principal

BROCHURE DESIGN

Two Days Workshop on
"Drone Technology"
Under lead college Scheme
Shivaji University Kolhapur
3 to 4 December 2022

REGISTRATION FORM

Name: _____

Qualification: _____

Designation: _____

Organization: _____

Correspondence Address: _____

Contact No: _____

E-mail: _____

How to Apply

- 1) Through online Registration link Provided in Brochure
OR
- 2) Prescribed form has to be filled by individual with Institute heads signature and collage stamp.

Signature of Applicant

Signature of Sponsoring
Authority
(seal and date)

CHIEF PATRON:

Dr. Vinayraoji Kore
President, SWSM, Warananagar
Dr. Vasanti Rasam
Admin. Officer, SWSM,
Warananagar

ADVISORY COMMITTEE:

Dr. S. V. Anekar
Principal
Dr. K. I. Patil
Dean Academics
Dr. A. B. Kakade
Associate Professor, RIT Sakharde
Prof. C. P. Shinde
Head, Department of E&TC
Engineering
Prof. Imran A. Mursal
Coordinator Lead College scheme,
SUK

COORDINATOR:

Prof. P. V. Lokhande
pvlokhande@tkietwarana.ac.in
Mob. 8605067454

**TATYASAHEB KORE INSTITUTE OF
ENGINEERING AND TECHNOLOGY
WARANANAGAR
(AN AUTONOMOUS INSTITUTE),**



**Department of Electronics and
Telecommunication Engineering**

Organizes
**2 Days Workshop on
"Drone Technology"**

Under lead college Scheme
**Shivaji University
Kolhapur**



3 & 4 December 2022

About Institute

Tatyasaheb kore Institute of Engg. and tech. (TKIET) was established in 1983 by visionary leader late Shri Tatyasaheb kore and it is a premier technological institute for last 35 years. The institute has been conferred the autonomous status by VGC, New Delhi from academic 2020-2021 and awarded 'A' grade by NAAC (CGPA 3.27) in recognition of its overall Academics excellence and infrastructure. The Institute is approved by AICTE, New Delhi, STE Maharashtra and permanently affiliated to Shivaji University Kolhapur. The institute offers fire undergraduate and four postgraduate programs and total student strength on campus is around 2500. The institute undergraduate programs have been accredited by NBA twice.

About Department

- Year of Establishment 1983.
- Courses offered: UG (E&TC): 60 intake
PG (E&TC): 60 intake
- Well Equipped 12 laboratories with total investment of 2 Cr. With internal facilities.
- Dynamics facility with academics excellence.
- Wide Alumni Quantum
- Prochain industry interaction
- Vibrant training & placement cell with 100% placement record for last three years.
- Secured more than 60 meritorious position in Shivaji University rank list.

OBJECTIVES:

- Understand basic drone operations and capabilities.
- Learn frameworks for presenting drone capabilities
- Understand the fundamentals of configuring and controlling drones.
- Learn legislative and safety considerations when flying drones.
- Identify various drone platforms and their functions.
- Gain an understanding of drone communications protocols.
- Use of drone simulation software's like ARDU PILOT, MISSION PLANNER, D-JI-NAZA M-LITE etc.



RESOURCE PERSONS:

- Dr. A. B. Kakade M. Tech, Ph. D. (IIT Kharagpur)
ETC department R. I. T. Sakharale
Founder: Anand Techno-Creations, Satara.
- Prof. R. T. Patil
ETC department, RIT Sakharale
- Drone Club members, RIT Sakharale



LINK FOR REGISTRATION

<https://forms.gle/YzyHkcSVE9eYM2mS8>

TARGETED PARTICIPANTS:

- Faculty and student from institutes.

INAUGURAL FUNCTION

Table Program

Sr. No.	Content	Time
1	Welcome Speech	3 Min.
2	Introduction of Drone Technology Workshop	5 Min.
3	Introduction of Resource Person	3 Min.
4	Felicitation of Dignitaries	5 Min.
5	Address by Academic Coordinator	7 Min.
6	Address by Principal	10 Min.
7	Vote of Thanks	3 Min.

Address By Academic Co-Ordinator :

Prof. S.H. More delivered the speech on the occasion of the inauguration function of Drone Technology workshop. By his speech he motivated students to learn drone technology and shared the importance of drone is present and future. Also, focused on upcoming placement opportunities in electronics area about the drone.

Address By Principal:

Hon'ble Principal Dr. S.V. Anekar sir, addressed the participants with special mention of importance of such workshop to cope up with up –coming technologies. Further, he appreciated E & TC department for their achievements in different fields and their consistency in 100% placement. Also guided the students that how much the consistency and practice is important in present vibrant technology.

Day 1 (03 December 2022)

First day of the workshop has started with basics of drones. Explain construction, types & future scope. Also provides quad copter information in detail. Explain important & demonstration of component selection of drones etc.

Session-1: Drones:

Types, Applications, Future scopes.

Session-2: Quad copter:

Special features, Frame types.

Session-3: Components of Drone:

All the components of Quad copter. Selection, handling & types of Battery, Motors, ESCs, Propellers, Frame etc.

Day 2 (04 December 2022)

Second day of the workshop has started with different communication protocols about transmitter & receiver. Also installation & simulation of drone simulation software's. After completion of question answering session all students gathered for demonstration of Drone Flying.

Session-1: Communication Protocols:

Transmitter & Receiver Flight Controller, GPS (types, selection etc.).

Session-2: Simulation & Hands on demo:

Simulation using MISSION PLANNER & Interfacing with required components.

Session-3: Question Answering & demonstration of Drone Flying

VALEDICTORY FUNCTION

At the end, in valedictory function Mr. Harshal Nikam, Mr. Rushikesh Shirke and Miss. Sayali Chendake delivered the feedback for Overall conduction and effective deliberation of technical contents of workshop. Vote of thank was proposed by the ETSA vice president Miss. Shruti Patil with express gratitude to all concerned with organization of the workshop. ETSA faculty coordinator Prof. P. V. Lokhande expressed deep sense of appreciation to Management, Principal, E&TC faculty and ETSA student members for extending their extreme support for successful conduction of this workshop. Valedictory function concluded by head of department Prof. C.P.Shinde with some thoughts and motivates the students for the expansion of drone system in our institute.

Photographs: Day 1



Photographs: Day 2

