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Department of Electronics & Communication (A.C.T.)

Name of the event:	**KISAN DRONE OPERATOR TRAINING PROGRAM 2K26**
Date of the event:	21 March to 30th May 2026
Organized by:	CSMSS Chh. Shahu College of Engineering, Chhatrapati Sambhajinagar
In Collaboration with:	CSMSS RPTO approved by Maharashtra State Skill Development Society (MSSDS) under Skill India Mission.
Under the Initiative:	CSMSS RPTO, Centre of Excellence, CSMSS CSCOE
Speaker:	Prof.S.B.Lahane
Target Audience:	Students of Second and Third Year from E&C (ACT)
Venue / Platform / Mode:	Drone Lab, Centre of Excellence, CSMSS CSCOE, Chhatrapati Sambhajinagar (Offline)
Coordinator:	Prof. S. H. Jadhav
Objective:	The program is designed to provide participants with comprehensive knowledge of drone regulations, flight principles, operational procedures, and precision farming applications.
Overview	➢ KISAN DRONE OPERATOR TRAINING PROGRAM 2K26 was successfully organized by the CSMSS RPTO, Centre of Excellence, CSMSS CSCOE from 21st March to 30th May 2026. The event aimed to promote technical awareness, innovation, analytical thinking, and practical learning among engineering students. ➢ The program covers five major modules designed to provide a complete understanding of drone technology and its applications in modern agriculture. 1. Regulatory Knowledge and Compliance • Understanding of DGCA regulations applicable to drone operations. • Knowledge of airspace classification, operational limitations, permissions, and safety requirements. 2. Principles of Flight and Aircraft Systems • Basic aerodynamics and principles of flight. • Understanding of drone components including airframe, propulsion system, flight controller, GNSS, batteries, and payloads. 3. Agricultural Drone Applications • Introduction to Kisan Drones and precision agriculture. • Drone-based spraying techniques, field mapping, and crop monitoring. • Best practices for agricultural drone operations.

	4. Flight Planning and Operations • Mission planning and risk assessment. • Pre-flight inspection and operational procedures. • Emergency handling and safety protocols. 5. Practical Flying Training • Hands-on drone flying sessions. • Take-off, landing, hovering, and maneuvering exercises. • Agricultural spraying demonstrations and field operations.
Participation	20 Students from Dept. of Electronics & Communication (A.C.T.) of CSMSS CSCOE enthusiastically participated in the session, demonstrating high levels of interest and engagement.
Fees:	**No fees for registration.**
Key Outcomes:	The participants will gain a strong understanding of drone technology, aviation regulations, and agricultural drone applications. They will be able to conduct safe drone operations, perform pre-flight inspections, plan missions, and handle emergency situations effectively. Participants will acquire practical flying skills including take-off, landing, hovering, maneuvering, and agricultural spraying operations.
Feedback & Suggestions:	Optional
Conclusion:	The program enhanced awareness of regulatory compliance, flight safety, and precision farming techniques. Participants gained hands-on experience in agricultural drone applications, including crop monitoring and spraying operations.
Photo:	

Prof. S. H. Jadhav **Dept. Coordinator E&C(A.C.T.)**	Dr. Syed Sumera Ali **HoD E&C(A.C.T.)**	Prof. S.B. Lahane **CSMSS RPTO Coordinator**	Dr. G. B. Dongre **Principal**