

KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI SKILL LABS



Schedule of Skill labs offered at KLSGIT

Sl No	Department	Start date	End date	Title of Skill lab
1	Aeronautical	6-01-2025	11-01-2025	UAS Design, Simulation & Flight
	Engineering			Training Lab

Skill lab (Detailed schedule)

Sl No	Department	Title of Skill lab	Semester &	Venue	Dates	Faculty	Phone No	Email id
			Division			name		
1	Aeronautical	UAS Design,	V	Advanced	6-01-2025To	Prof. I V	9037800468	ivpatil@git.edu
	Engineering	Simulation & Flight		Flight	11-01-2025	Patil		
		Training Lab		simulator and				
				Control lab				



SKILL LAB

ON





KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

Department of Aeronautical Engineering

Overview:

UAV design, simulation, and flight training cover the fundamentals of creating unmanned aerial vehicles, including airframe design, propulsion systems, and control algorithms. Simulations test flight dynamics, stability, and performance, while flight training involves hands-on piloting, navigation, and safety skills. In the aeronautical field, these skills are essential for developing advanced aerial systems and optimizing aircraft performance. UAV technology fosters innovation in aerospace, defense, and agriculture, offering job opportunities in aircraft design, flight dynamics, avionics, and control systems, meeting the demand for professionals skilled in robotics, AI integration, and aerial data analysis.



Mode of Conduction of each Module:

Theory: 12 Hours, Demo: 6 Hours, Lab Sessions: 18 Hours Total duration: 36 Hour

Module 1:Flight Training and Operations

Fundamentals of flight Manual piloting techniques Basics of autonomous flight



Module 3: UAV Systems

Techniques for integrating various
Testing methodologies for UAV systems
Data Analysis and performance assessment

Module 2: UAV Regulations and Safety

Overview of national and international UAV regulations
Airspace management

UAV operation limits

Module 4: Emerging Technologies and Future Trends

Exploration of cutting-edge UAV Future applications

Terms and Conditions

Students who have paid a skill lab fee to the institution are eligible for training.

The students must maintain 90% attendance for obtaining the skill lab certificate.

Students must attend training as per scheduled time

Acceptance

In order to accept and start the training program, students are required to register with the respective department. Details to be provided by the student to the department include:

Name, USN, UID, Mobile No, Email id

Coordinators:

Name IV Patil

Dept. of Aeronautical Engineering

Phone: 9037800468 E-mail: ivpatil@git.edu

Outcomes

Understand various applications and emerging trends in UAV technology. Demonstrate an understanding of UAV stability, control, and flight dynamics.

Mention briefly about the job opportunities students have after completing the course..