



Finolex Academy of Management & Technology, Ratnagiri

Department of Electrical Engineering

Academic Year 2026-27

Five-Days Short-Term Training Program (STTP) on Model-Based Design for UAVs and Self-Driving Vehicles Using MATLAB

Date: 23/07/2026 to 26/07/2026 & 02/08/2026

Venue: Electrical Department EN: 0/6

The Department of Electrical Engineering successfully organized a **Five-Day Short-Term Training Program (STTP)** on "**Model-Based Design for UAVs and Self-Driving Vehicles Using MATLAB**" from **23–26 July 2026**, followed by a **Hands-on Hardware Interfacing Session** on **2 August 2026** at the **EN 0/6 Laboratory**.

The inaugural session commenced with the felicitation of the resource person, **Mr. Rohit Pawar, Application Engineer, MathWorks, DesignTech Systems Pvt. Ltd.**, by **Dr. J. J. Mane, Head of the Department of Electrical Engineering**, and **Mr. D. Rajeshkumar, STTP Coordinator**. They emphasized the importance of industry-oriented training and Model-Based Design in developing future-ready engineering skills.

The STTP was attended by **Third-Year Electrical Engineering students** and **faculty members from FAMT**. The technical sessions covered **Model-Based Design using MATLAB & Simulink, UAV modelling and mission simulation, multi-waypoint trajectory planning, geospatial flight validation, autonomous driving and ADAS, virtual driving scenario generation, synthetic sensor data for perception and decision-making, real-time simulation, and system validation**.

A major highlight of the program was the **Hands-on Hardware Interfacing Session**, where participants learned **Arduino interfacing using MATLAB and Simulink** for real-time monitoring and control. Interactive demonstrations and practical exercises provided participants with valuable exposure to simulation-driven design and embedded system implementation.

The STTP successfully enhanced participants' knowledge of autonomous systems, UAV technologies, self-driving vehicles, and Model-Based Design methodologies. The Department of Electrical Engineering expresses its sincere gratitude to **Mr. Rohit Pawar** for his expert guidance and thanks all students and faculty members for their enthusiastic participation, which made the program a grand success.

Coordinator | Head of Department

D. Rajeshkumar

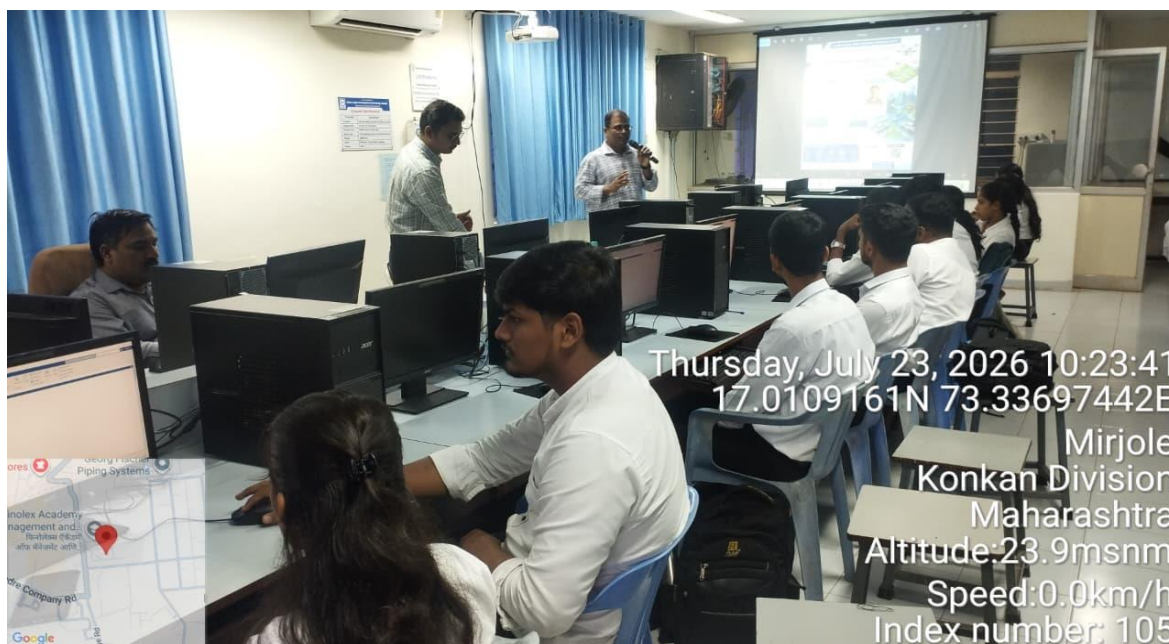
STTP Coordinator

Dr. J. J. Mane

Head, Department of Electrical Engineering

Sr. No.	Title	Content
1	Title of Program	Model-Based Design for UAVs and Self-Driving Vehicles Using MATLAB
2	Nature of program	STTP
3	Name of organising committee	Electrical Department, FAMT Ratnagiri
4	Date of activity	Date: 23/07/2026 to 26/07/2026 & 02/08/2026
5	No of resource persons	1
6	No of student participants from FAMT	Students from Electrical Department (TE class) =62
7	No of student participants from another institute	NA
8	No of participants from FAMT staff	13
9	Total no of participants	75
Signature and name of convener of authority: HoD/Convener of committee		
Name of department/committee		EED

Photos of 5 Days STTP on Model-Based Design for UAVs and Self-Driving Vehicles



Introduction of the event schedule, content and the resource person by the coordinator



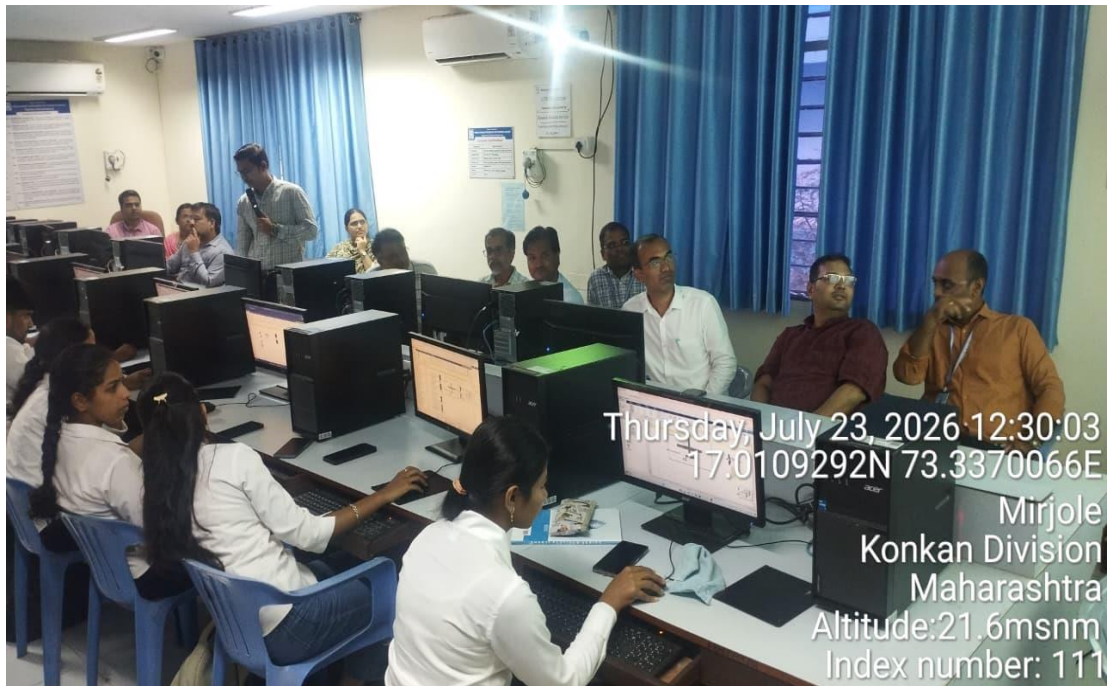
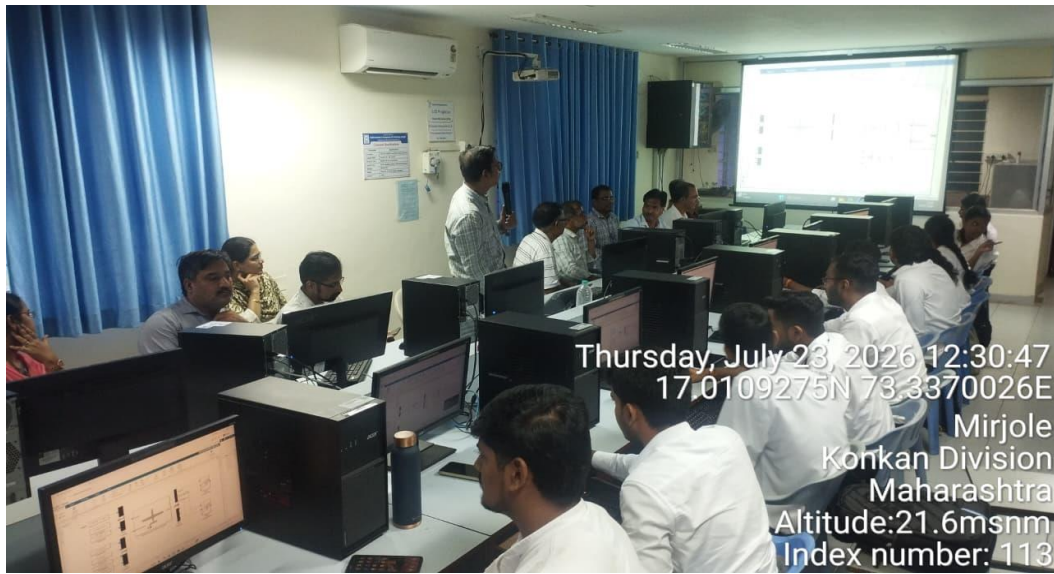
Mr. Rohit Pawar giving a speech regarding the STTP



TE students at the Computer Lab EN0/6



Mr. Rohit Pawar interacting with the students



Faculty Participation in the Five-Day STTP

Certificates

A. STTP Certificate

	Finolex Academy of Management and Technology, Ratnagiri DesignTech, Pune	
JCEGH4-CE000027 Model-Based Design for UAVs and Self-Driving Vehicles for Five-Day (STTP) 3-8-2026		
This is to certify that Saeem Imtiyaz Masrumulla		
Student Reg. No/Employee ID No	75	of Electrical
has participated and successfully completed with Matlab STTP on 23-26 July 2026 and 02 Aug 26		
 Rohit Pawar Design Tech Resource Trainer	 Dr. JAYANT MANE HOD of Electrical FAMT	 Prof D. Rajesh Kumar COORDINATOR Made for free with Certify'em

	Finolex Academy of Management and Technology, Ratnagiri DesignTech, Pune	
JCEGH4-CE000009 Model-Based Design for UAVs and Self-Driving Vehicles for Five-Day (STTP) 3-8-2026		
This is to certify that Purva Yogesh Khanvilkar		
Student Reg. No/Employee ID No	26	of Electrical engineering
has participated and successfully completed with Matlab STTP on 23-26 July 2026 and 02 Aug 26		
 Rohit Pawar Design Tech Resource Trainer	 Dr. JAYANT MANE HOD of Electrical FAMT	 Prof D. Rajesh Kumar COORDINATOR Made for free with Certify'em

	Finolex Academy of Management and Technology, Ratnagiri DesignTech, Pune	
JCEGH4-CE000033 Model-Based Design for UAVs and Self-Driving Vehicles for Five-Day (STTP) 5-8-2026		
This is to certify that Dr. Aswant Kumar Sharma		
Student Reg. No/Employee ID No	E035	of Electrical Engineering
has participated and successfully completed with Matlab STTP on 23-26 July 2026 and 02 Aug 26		
 Rohit Pawar Design Tech Resource Trainer	 Dr. JAYANT MANE HOD of Electrical FAMT	 Prof D. Rajesh Kumar COORDINATOR Made for free with Certify'em

	Finolex Academy of Management and Technology, Ratnagiri DesignTech, Pune	
JCEGH4-CE000032 Model-Based Design for UAVs and Self-Driving Vehicles for Five-Day (STTP) 4-8-2026		
This is to certify that VINAY NARAYAN ASOLKAR		
Student Reg. No/Employee ID No	02	of Electrical
has participated and successfully completed with Matlab STTP on 23-26 July 2026 and 02 Aug 26		
 Rohit Pawar Design Tech Resource Trainer	 Dr. JAYANT MANE HOD of Electrical FAMT	 Prof D. Rajesh Kumar COORDINATOR Made for free with Certify'em

B. Onramp Certificate



Course Completion Certificate

Sakshi Ambavkar

has successfully completed **100%** of the self-paced training course

Object Detection with Deep Learning

DIRECTOR, TRAINING SERVICES

4 August 2026



Course Completion Certificate

sanjana Rane

has successfully completed **100%** of the self-paced training course

Object Detection with Deep Learning

DIRECTOR, TRAINING SERVICES

4 August 2026



Course Completion Certificate

saish tamhankar

has successfully completed **100%** of the self-paced training course

Machine Learning Onramp

DIRECTOR, TRAINING SERVICES

23 July 2026



Course Completion Certificate

Vighnesh Aroskar

has successfully completed **100%** of the self-paced training course

Machine Learning Onramp

DIRECTOR, TRAINING SERVICES

24 July 2026