	Jyothi Engineering College, Cheruthuruthy, Thrissur-679531	
	Department of Artificial Intelligence and Datascience	
	FDP Title: 'Exploring AI Applications through MATLAB: From Image Processing to Generative AI'	
	Mode: Online **Date:19-05-2025 to 23-05-2025 (5 Days)**	
	Coordinators: Dr. Anoop V, Mr. Shine P Xavier	

FDP SCHEDULE

	9:50 am: Inauguration	
	Session 1(10:00am-12:00pm)	**Session 2 (1:00pm-3:30pm)**
DAY-1 19-05-2025 Monday	**Topic:** Image Processing Fundamentals **Resource Person**: Dr. S Esakkirajan Professor, Control and Instrumentation Engineering, PSG Tech.Coimbatore	• Working with Live Scripts • Introduction to Image Processing • Importing and Exporting Images • Image Enhancement Techniques • Edge Detection • Using MATLAB Apps for Data Preprocessing **Resource Person**: Mr. Vulasa Avinash, Application Engineer, CoreEL Technologies, Banglore.
DAY-2 20-05-2025 Tuesday	**Topic:** Machine Learning **Resource Person**: Ms. Parvathy Jyothi, Assistant Professor, Jyothi Engineering College.	• Introduction to Machine Learning • Overview of Supervised and Unsupervised Learning • Classification Methods • Regression Methods • Curve Fitting the Data • Using Apps to Automate Workflow **Resource Person**: Mr. Rakshith BS, Senior Application Engineer, CoreEL Technologies, Banglore.

DAY-3 **21-05-2025** **Wednesday**	**Topic:** Deep Learning **Resource Person**: Dr. Bipin PR, Professor, Adi Shankara Institute of Engineering and Technology-Kalady-Kerala.	• Working with large collections of data • Working with Real Time Data • Transfer Learning • Using Apps to Automate Workflow • Demo Applications **Resource Person**: Mr. Rakshith BS, Senior Application Engineer, CoreEL Technologies, Banglore.
DAY-4 **22-05-2025** **Thursday**	**Topic:** Pre-trained Networks **Resource Person**: Dr. Seenia Francis, Application Engineer, CDAC-Thiruvanathapuram.	• Image Preprocessing for Computer Vision • Working with Pre-trained Networks • Working with Networks from Scratch • Object Detection Techniques • Application Demos **Resource Person**: Mr. Vulasa Avinash, Application Engineer, CoreEL Technologies, Banglore.
DAY -5 **23-05-2025** **FRIDAY**	**Topic:** Generative AI and Explainable AI **Resource Person:** Dr. Nisha Sastry, Customer Success Engineer, MathWorks, Bangalore • Object detection with YOLO • Interoperability with Python (Pytorch & TensorFlow) • Co-execution with Python • Explainability • Gen AI – MATLAB AI chat playground	Quiz, Feedback Session and Valedictory Function