

“Image Processing with MATLAB”

In association with MathWorks

Please tick on Program Type (✓)	
Awareness/Motivational Program	Workshop/Training
Faculty Development Program	Short Term Training Program
Seminar/Conference/webinar✓	Competition
Hackathon	Tech-Fests
Boot Camp	E-summits
Exchange Program	Exhibition of Innovative Products
Other	
Please tick on Program Theme (✓)	
Skill Development ✓	Research
Bridging the Gaps ✓	Innovation
Ethics	IPR
Soft Skill	Entrepreneurship
Personality Development	

- **Within Campus/Outside Campus (Please tick): outside Campus**
- **Level of Event/Program (College/University/State/National/International): National**
- **Academic Year: 2020-21**
- **No. of Days/Weeks/Duration: 1 Day**
- **Program Start Date: 29th June 2020**
- **Program End Date: 29th June 2020**
- **Organized by: Prof. N.D.Chaudhari**
- **Speaker/Resource Person details/information:**

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Suraj Gawande Application Engineer, MATLAB (Mathworks), DesignTech Systems Ltd Suraj Gawande is an Engineer – Technical Support at DesignTech Systems Ltd., Pune. His main focus is to train customers on MathWorks products on their required

application. Suraj Gawande brings with him around 3 years of industrial experience. He is mainly working into (Language of Technical Computing) LTC vertical i.e. Data Analytics & Machine Learning. Prior to joining DesignTech, Suraj Gawande worked in Trident Techlabs Pvt. Ltd. As TechnoCommercial Engineer. Where He use to work in National Instruments (NI) & Texas Instruments (TI) group. He holds a Master's Degree in Electronics and Communication from Smt. Kashibai Navale College of Engineering, Pune (Maharashtra).

▪ **Contents:**

- Importing and exporting images
- Analyzing images interactively
- Removing noise
- Aligning images and creating a panoramic scene ·
Detecting edges, lines, and circles in an image ·
Segmenting objects based on their color and texture ·
Modifying objects' shape using morphological operations ·
Measuring shape properties
- Performing batch analysis over sets of images

Objective:

- To introduce concepts of Image processing
- To provide hands session on experience on Image Processing related toolboxes of MATLAB2020b.

▪ **Participation details:**

Number of Participants: 189

▪ **Expenditure details:**

Institute Own/Internal Fund (in Rs)	Total fees collected from Participants (inRs.)	Total Expenditure Incurred (in Rs.)
Nil	Nil	Nil

▪ **Analysis of the feedback forms:**

1. Students had got hands on experiences of basic concepts in Image Processing.

2. Students found session very useful to their projects.

▪ **Comments on Outcome of Program:**

Students will be able

- Understand fundamentals of image processing
- To use MATLAB Toolbox™ provides functions to process Image type Data.
- To design and implement Image processing and AI systems.