



J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY (UGC AUTONOMOUS)

(Accredited by NBA&NAAC, Approved by AICTE & Permanently Affiliated to JNTUH
Hyderabad)

Yenkapally (Vi), Moinabad (M). P.O. Himayat Nagar, RR District, Hyderabad 500075

Department of Electronics and Computer Engineering



Value-Added Course on Computer Vision Report

Module Number: 03

Key Topics Covered:

Image Processing Techniques and Resizing, cropping, filtering, color spaces

Resource Person(s): Mrs. Anusha Manda and Mr. Bheemana Bhuvan

Date and Time of Session: 23.10.2025 and 1.10pm to 4.10pm **Duration:** 3hours

Mode of Delivery: Face to Face and Video Lecture Presentation

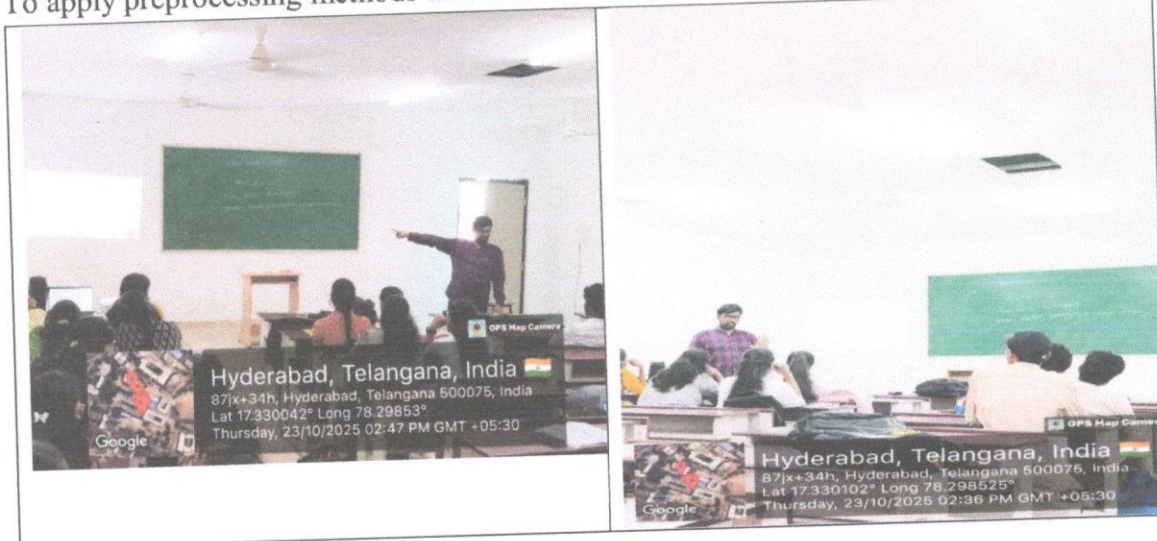
Target Audience: 2nd, 3rd and 4th year students

Number of Participants: 65

Venue: A406 Classroom

Objectives of the Course Module:

- To understand how digital images can be modified and improved for analysis or visualization.
- To learn the basic operations that prepare images for machine learning, computer vision, or multimedia applications.
- To develop practical skills in manipulating image dimensions, content, and quality.
- To explore how color information is represented and transformed between different color models.
- To apply preprocessing methods that enhance image quality and aid feature extraction.



Session conducted on a Value-Added Course on Computer Vision for 2nd, 3rd and 4th year students of ECM on 23.10.2025



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Expected Learning Outcomes of the Module: 3

By the end of the module, students could:

- Understand how to **resize images** without losing important details or quality
- Learn to **crop images** to focus on the most important parts
- Gain the ability to **apply filters** to remove noise or enhance image features
- Identify and use different **color spaces** for various image processing tasks
- Develop skills to **prepare and improve images** for computer vision or AI applications
- Understand how each technique affects **image quality, size, and appearance**
- Apply these techniques practically using image editing or programming tools
- Build a foundation for **advanced image analysis and processing**

Summary:

Students appreciated the practical, project-based learning approach, clear explanations with industry relevance and real-time demonstrations and coding practice


Signature of the HoD-ECM
Head of the Department
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