

## REPORT ON DIGITAL IMAGE PROCESSING USING MATLAB

Date: 19/08/2016 & 20/08/2016

A workshop on Digital Image Processing using MATLAB was organized by Department ECE for the students of IV ECE (A&B) under IETE chapter in association with **Mr. A.Gopal, Assoc.Prof, Dept of ECE-NNRG on 19<sup>th</sup> & 20<sup>th</sup> August 2016.** It was organized with prior permission and guidance of **Hon. Director Dr.C.V.Krishna Reddy, Dean of SoE Dr.G.Janardhana Raju and HoD-ECE Mr.P.S.Sreenivasa Reddy.**

The workshop organizer and speaker was Mr.A.Gopal, Assoc.Prof, Department of ECE-NNRG. The total number of students participated in the workshop were 87(45 from IV ECE-A and 42 from IV ECE-B).

This workshop included the demonstration on the coding part with hands on experience for the students, which in turn can enhance the skills of the students for their project work.

In these two days we developed many programs on Digital Image Processing where students have seen the outputs then and there.

The workshop was dedicated in training the students on the Digital Image Processing with the help of Image Processing Toolbox.

The workshop was an invaluable resource for those who learning Digital Image Processing. The workshop provided the basics of image processing as well as more advanced topics of image processing. Every participant involved in analyzing the resultant or tested image.

It is gratifying to note that, this two days workshop covered wide range of interesting topics related to,

1. Image representation model.
2. Finding the size of Image for both colour and gray scale.
3. Different Image formats.
4. Reading and displaying the images.
5. Extraction of different bit planes of image.
6. Different image enhancement techniques.

7. Different arithmetic operations on images.
8. Image restoration model for noise removal.
9. Image segmentation for ending edges.
10. Morphological techniques for finding shapes and boundary regions of images.
11. Colour image processing for extraction of different colours from the image.

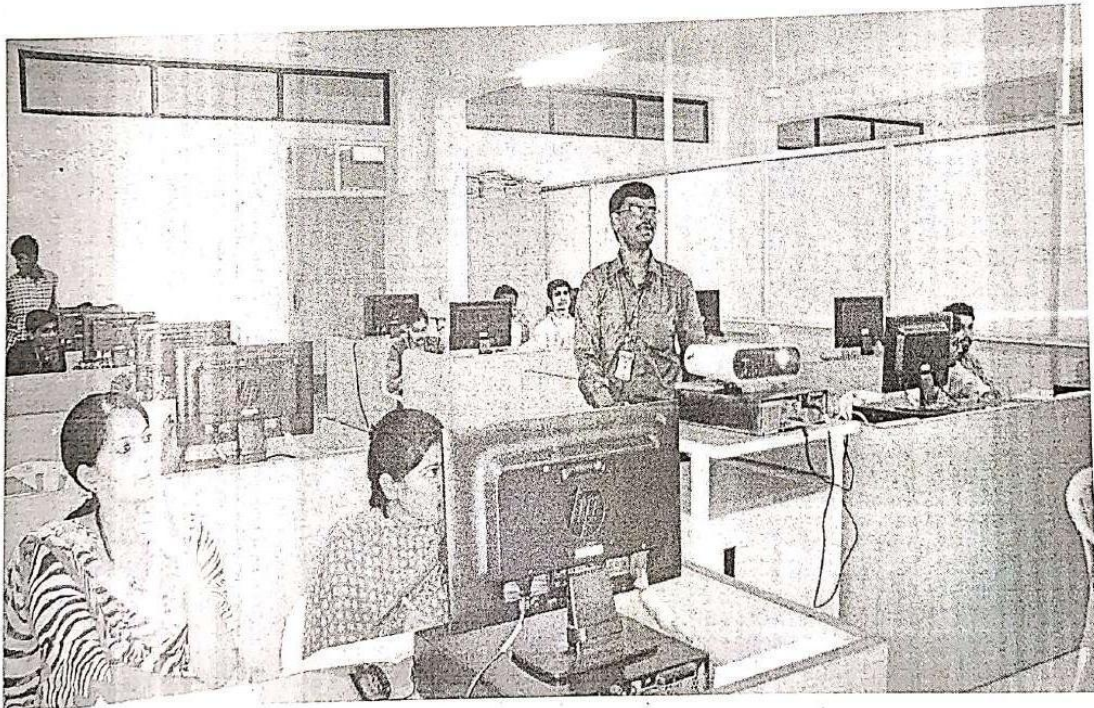
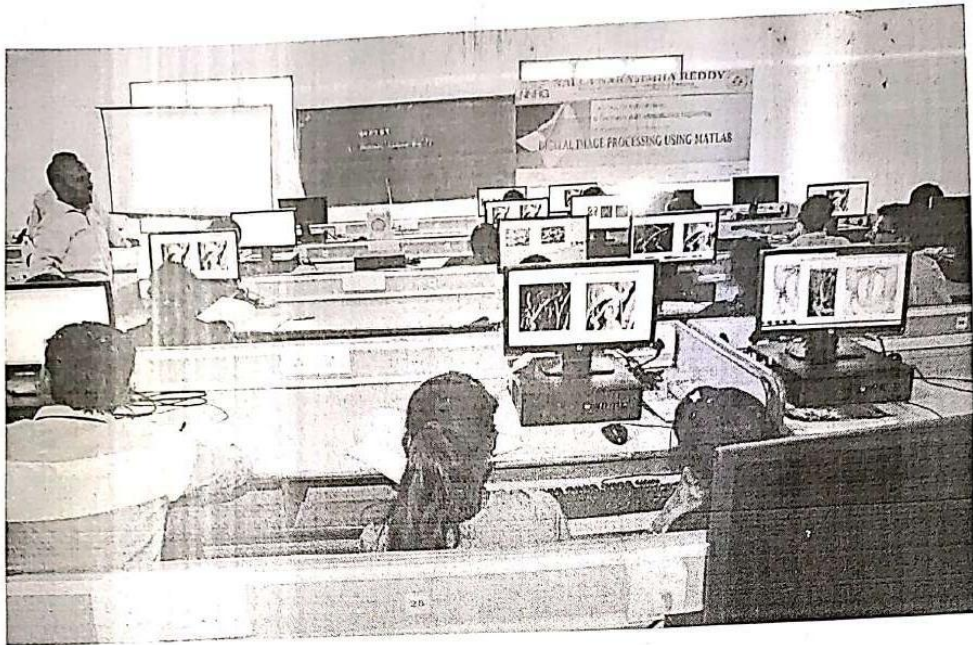
Each and every topic was clearly and elegantly explained by the speaker Mr. A.Gopal, Assoc.Prof. Every individual participant had a chance to produce innovative project on his own hand.

**Feedback from the students:**

1. Workshop was very useful and informative.
  2. Different commands and procedures were clearly understood.
  3. Workshop was interesting as it included hands on experience.
  4. Workshop was helpful for project work.
  5. Students are expecting more workshops as such in further semesters.
  6. Friendly environment was created by the organizer & Speaker.
- . The session was ended with a valedictory.









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