EE6222  MACHINE VISION

Acad Unit: 3
Pre-requisite: Nil
Effective: Academic Year 2013-2014
Last update: August 2013

LEARNING OBJECTIVE

This course aims to introduce to students the basic concepts of vision based automation systems in industrial and practical settings. Development of vision based automation system may involve image capture and analysis, three dimensional data processing and machine intelligence. Hence, this course covers these topics appropriately.

CONTENT


LEARNING OUTCOME

1. Understand the basic concepts of image pre-processing & analysis, feature extraction and pattern classification.
2. Understand the basic concepts of three dimensional image analysis and recognition.
3. Apply the machine vision concepts to develop simple automation systems.

STUDENT ASSESSMENT

Continuous Assessment  20%
Final Examination  80%

REFERENCES