



Code: 9D06205

M.Tech II Semester Supplementary Examinations January/February 2017

IMAGE & VIDEO PROCESSING

(Common to DSCE, DECS, ECE and Com Sys)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Differentiate DFT and KLT.
(b) What is the importance of HAAR transform? Explain.
- 2 (a) Why and where the edge detection is used? Explain.
(b) What is LOG filtering in image enhancement? Explain.
- 3 (a) Explain the process of restoration using inverse filtering.
(b) What is the concept of Wiener filtering? Explain.
- 4 (a) Compare bi-level thresholding. Explain.
(b) Where the Hough Transform is used? Explain with an example.
- 5 (a) What is the concept of image compression? Explain with an example.
(b) What is the importance of fundamental coding theorem? Explain.
- 6 (a) How Huffman coding is used in lossless compression? Explain with suitable example.
(b) What is lossy compression? How transform coding is used in it? Explain.
- 7 (a) How to represent a digital video in video processing? Explain.
(b) What is the concept of motion estimation? Explain.
- 8 (a) Explain about video filtering.
(b) Briefly explain about the video coding standards.

