DIGITAL IMAGE PROCESSING (EC 024)
L T P 3 1 0
<b>UNIT-I</b> <b>Introduction to Digital Signal Processing:</b> Fourier & Z-transform, Multidimensional sequence, Image digitizing, image processing software, Histograms, point operations.
<b>UNIT-II</b> <b>Introduction to algebraic operations, filtering</b> : Convolution, optional filter design, data processing, computing, truncation, optics and system analysis, diffraction limited, optical systems, abbreviations
8 UNIT-III
<b>Application:</b> Image restoration, approaches and models, image segmentation, segmented image structure.
8 UNIT-IV
Measurement and classification of size, shape measurement feature selection, classification, three dimensional image processing, optics sectioning.
8 UNIT-V
CAT, Steriometric ranging, Stereoscopic Image Display, Shaded surface display 6
<ul> <li>Reference:</li> <li>1. Kenneth R. Castleman/ Digital Image Processing/ Pearson Education 2003</li> <li>2. A.K. Jain/Image Processing/ PHI</li> <li>3. GonzaleZ R.C. &amp; P. Wint/ Digital Image Processing/ Addision Wesley.</li> </ul>

**Teacher:** 

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