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**ACHARYA INSTITUTE OF TECHNOLOGY**
# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(Affiliated to Visvesvaraya Technological University, Belagavi, Approved by AICTE, New Delhi and Accredited by NBA & NAAC)
Acharya Dr. Sarvepalli Radhakrishnan Road, Achitnagar Post**,** Soladevanahalli,
Bengaluru - 560107

**COMPUTER GRAPHICS AND FUNDAMENTALS OF IMAGE PROCESSING**
**ASSIGNMENT -II**
**[Academic Year: 2023-24]**

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| **Subject Name: Computer Graphics and Image Processing** | **Subject Code: 21CS63** |
| **Branch,Semester & Section:CS&E, VI [Common to all sections]** | **Date of Submission: 01-08-2024** |
| **Max Marks: 10M** | **Note: All questions carry 5 marks.** |

| Q.No | Question | CO |
|------|----------|-----|
| 1. | Interpret the following terms with diagrams with respect to pixels in an image: <br> 1. Neighbors <br> 2. Connectivity of pixels <br> 3. Euclidean distance <br> 4. City block distance <br> 5. Chess Board distance | CO4 |
| 2. | Interpret by giving one example/technique each for the below filters with neat illustrations/diagrams <br> 1. Derivative filters <br> 2. Template matching filters <br> 3. Gaussian Filters <br> 4. Pattern fit algorithms. <br> 5. Hough Transforms | CO5 |

| Course Outcomes: **The student will be able to** |
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| **CO4**: *Apply Image processing concepts in Image processing operations.* |
| **CO5**: *Apply Image segmentation and edge detection techniques for developing simple applications in Image processing.* |

| Signature of the Course Coordinator | Signature of the Module Coordinator | Signature of the Test Coordinator | Signature of the HOD |
|---|---|---|---|
| **Mrs. Varalakshmi B D Assistant Professor, CS&E** <br><br> **Mr. Jawahar Jonathan Assistant Professor, CS&E** | **Mrs. Sneha N P Assistant Professor Department of CS&E** | **Mrs. Rajani Kodagali Assistant Professor Department of CS&E** <br><br> **Mr. Vijayalakshmi S A** | **Dr. Ajith Padyana Professor & Head Department of CS&E** |