**Subject: Image Processing and Pattern Recognition (ACSAI0522)**

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| NIET | ASSIGNMENT 1 | SESSION-2024-25 |
| SEM-5th (ODD) |

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| NIET LOGO | |  | | --- | | **Department of IT** |   **Image Processing and Pattern Recognition (ACSAI0522)**  **UNIT-1** | | **SESSION: 2024-25** |
| **Semester/Section:**  **Vth (ODD)** |
| Assignment Given Date: 14-09-2024  **Assignment Submission Date:** 20**-09-2024** | | Maximum Marks: 50 | |
| Faculty Name: Suhail Rashid Wani | | Faculty Mail Id: suhail.wani@niet.co.in | |

**Note: Write answer of each question in clear handwriting.**

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| Q.N. | Question Statement | Marks | CO | BLOOM’S KNOWLEDGE LEVEL |
| 1 | (A)What are the fundamental elements of image processing?  (B)What do you mean by image processing system. Mention some of its Application. | 10 | 1 | K2, K4 |
| 2 | (A)Explain basic image file format.Explain the different types of image format and the differences between them  (B)Explain the components of Image processing | 10 | 1 | K2 |
| 3 | (A)Explain Geometric modeling and its type in detail.  (B)Explain about RGB color model in detail | 10 | 1 | K1, K2 |
| 4 | (A)What do you mean by image digitization.  (B) Explain sampling and quantization. | 10 | 1 | K2, K4 |
| 5 | Explain the following terms:   * 1. Image Sensing  1. Image Acquisition | 10 | 1 | K1, K2 |

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