

**Assignment-4**

**Unit-4: Image Compression**

1. What is Data Compression? (CO1-Uderstand)
2. Explain Image Compression model in detail. (CO1-Understand)
3. Differentiate reversible compression and irreversible compression. (CO4-Apply)
4. Calculate entropy of the following image matrix. (CO4-Apply)

2	3	2	2	3
3	2	2	3	3
4	5	5	6	6
4	5	5	6	6
4	7	7	7	6

5. Find out the Huffman codes for the symbols a1, a2 ,a3, a4, a5, a6 with probabilities 0.1, 0.4, 0.06, 0.1, 0.04, 0.3 respectively. (CO4-Apply)