**Ref. No.** CEC/IQAC/2021-22/21

## Department of Electronics and Communication Engineering

### Assignment -1

**Total marks-10**

**Branch:B Tech ECE**

**Subject & Subject code:** Soft Computing (BTEC-908D-18)

**Semester: 7th**
**Date on which assignment is given: 20.8.24**                **Date of submission of assignment:27.8.24**

**Course Outcomes:**

| CO1 | Understand the concepts of Soft Computing and Algorithms involved there-in. |
|---|---|
| CO2 | Understand Genetic Algorithms with its operators and applications. |
| CO3 | Learn about the Neural Network models and its applications. |
| CO4 | Describe the Fuzzy systems and Neuro fuzzy modeling. |
| CO5 | Learn Swarm Intelligence techniques for optimization. |

### Bloom's Taxonomy Levels

L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analyzing, L5 – Evaluating, L6 - Creating

| Assignment related to COs | Marks | Relevance to CO No. | Blooms Levels |
|---|---|---|---|
| Q1.Recall hybrid computing. Describe different constituents of soft computing. | 2 | **CO-1** | L-1 |
| Q2.Explain Messy GA, hybrid GA, Adaptive GA, Parallel GA, ISGA, real coded GA. | 2 | **CO-2** | L-2 |
| Q3.Compare with suitable diagram feed forward and feedback network. | 3 | **CO-3** | L-2 |
| Q4.State hebbian rule of learning with suitable mathematical expression. | 2 | **CO-3** | L-1 |