**Subject: Introduction to Machine Learning**

**Subject Code: CSE663 TR1**

**Semester: B.Tech CSE 3**

**Assignment 5**

1. Design a framework for employee scheduling in a hospital that guarantees sufficient staffing while accommodating individual preferences and constraints.
2. Formulate a fitness function for a genetic algorithm aimed at optimizing delivery routes for a logistics company, incorporating factors such as distance, fuel usage, and delivery time.
3. Create a genetic algorithm to enhance the design of an eco-friendly vehicle, with a fitness function that considers factors such as fuel efficiency, material costs, and carbon footprint.