

## **Course code and Title: PE-422 Health, Safety and Environment**

### **Course Contents:**

#### **Introduction to HSE**

Basic definitions, General Policies, Rules, Regulations, laws and standards related to health, safety and environment.

#### **Health and Safety**

Organization and Promotion of health and safety culture, Types of hazards, risk assessment, principles of risk control, Communication of Hazards, Fire and its safety, Work Permits, Emergency preparedness, First Aid, Audit procedure and reporting, Accident and incident investigation procedure and reporting and major accidents case studies.

#### **Environmental Problems**

Environment pollution, Air emission management, Waste management, Waste water treatment and control, Soil and ground water protection Environmental hazards of different activities of petroleum industry their remedial procedures.

HSE related Project and activities.

### **Text book**

1. Phil Hughes MBE, Ed Ferrett, Introduction to Health and Safety at work, Seventh Edition, Routledge, 2021.

### **Reference book**

1. Srinivasan Chandrasekaran, Health, Safety, and Environmental Management in Offshore and Petroleum Engineering, John Wiley & Sons, Ltd. Published, 2016.