

# ISE ACTIVITY 01

**CSE – 5th SEM Samuel Priyatam Dash Regd. No: 2302040025 ISE-2 Syllabus**

July 2025

## **1 CHATGPT ANALYSIS OF MY HANDWRITTEN SYLLABUS :**

### **1.0.1 Module 1 – Introduction to Industrial Safety**

- Terminologies used: accident, safety, hazard, safety device, safety guard, security, precautions, caution appliances
- Safety signs, fall ladders & scaffolding, work acts
- Reason for accidents
- Material Safety Data Sheet (MSDS), OSHA, WHO
- Lockout & tagout procedures
- Safe material handling & storage

### **1.0.2 Module 2 – Fire Safety**

- Introduction: Class A, B, C, D, E fires
- Fire triangle
- Fire extinguishers, fire hazards, analysis
- Prevention of fire, fire protection
- Fire prevention after occurrence of fire
- Portable fire extinguishers, fire detection, fire alarm & fire-fighting systems
- Safety signboards, instructions on portable fire extinguishers

### **1.0.3 Module 3 – Mechanical Safety**

- Personal Protective Equipment (PPE)
- Safety guards, safety while working with machines
- Tools like lathe, drill press, power hand saw, grinding machine
- Safety during welding, forging & pressing
- Safety while handling material, compressed gas cylinders, corrosive substances & portable mechanical tools

### **1.0.4 Module 4 – Electrical Safety**

- Introduction to electrical safety, electrical hazards
- Prevention of electrical accidents
- PPE used: AC & DC current shocks
- Safety precautions against shock
- Electrical portable devices, electrical tools
- Domestic & industrial electrical safety procedures

### **1.0.5 Module 5 – Chemical Safety & Other Safety Checks**

- Introduction to chemical safety
- Labelling of chemicals, acid foods
- Handling of acids, eye washers & showers
- Hazardous waste disposal, checklist
- Gas & LPG installations
- Safety precautions during CNG
- Fire prevention & safety audit

Field visits