

## **MSE-381 Industrial Safety**

**Credit Hours:** 3-0

**Pre-requisites:** None

### **Course Objectives**

- To familiarize the students with basic concepts regarding safety and risk management systems.

### **Course Contents**

- Industrial Safety and risk management an integrated approach, regulations and professional responsibilities
- Risk assessment, human factors, causes of industrial disasters and lessons learned thereof, implementing a safety program
- Concept of hazard avoidance, use of information systems
- Process safety, Buildings and infrastructure, environmental control and noise safety, flammable and explosive materials
- Personal safety and first aid, Fire protection

### **Course Outcome**

- Familiarize the students with different causes of industrial disasters.
- Implement safety programs.
- Familiarize with regulation and professional responsibilities
- Learn about personal safety, first aid and fire protection etc.

### **Suggested Books**

- Laird Wilson, Doug McCutcheon, and Doug McCutcheon, *Industrial Safety and Risk Management, University of Alberta Press, 2003.*
- C. Ray Asfahl, *Industrial Safety and Health Management, 5<sup>th</sup> Edition, Pearson Education, 2011.*