

Course Title	Course Code	Credit Hours
Health Safety & Environment	ME-425	2 – 0

Text Books:

- J. Ridley and J. Channing, Safety at Works, Routledge.

Reference Books:

- K. G. Lockyer, Factory & Production Management, Pitman Publishing

Course Objectives:

To equip engineers with the knowledge and skills to ensure workplace health, safety, and environmental protection through effective risk management and compliance with regulations

Course Outline:

- Introduction of Health and Safety: Industrial Safety: introduction objectives of Safety, Importance of Safety in an industry, Industrial accidents, Effects of accidents, Types of accidents incidence of fire. Fire prevention and control.
- Techniques of Safety Management: Principles of accident prevention, hazard analysis. Legal, humanitarian, and economic reason for action. Safety inspection procedures. Safety training, First aid and emergency procedures
- Environment and Health: Introduction: importance of clean environment, Scale of Environmental Pollution. Environmental Act. Health and Safety Act.
- Atmospheric Pollution: Types of Atmospheric pollution, Their Causes and Effects on Human Health, Available Technologies for Controlling Pollution.
- Industrial Waste: Solid Waste, Industrial Effluents and Waste Gases, waste treatment plants.
- Noise Pollution: Measurement of Noise level, Effect of excessive noise on human health.
- Remedial Measures
- ISO Standards for Safety and Health and Environment

Description	Percentage Weightage (%)
Assignments	05-10%
Quizzes	10-15%
Mid Semester Exams	30-40%
End Semester ASSESSMENTS Exam	40-50%