

Course Code	Course Title	Credit Hours
ENS-843	Health, Safety and Environmental Management	3 (3+0)

Course Description

In order to maintain working environment safe and healthy at any place, hazards need to be addressed properly. This course aims to provide guidelines and precautionary principals for the safety of public.

Course Outline

Health, Safety and Environment: Hazards; Physical, mechanical, biological, chemical and psychological hazards and stress. Health and environment, Environmental safety, Hazards identification and risk assessment and management process.

Work Place Environment: Occupational safety and health issues in industries, construction, agriculture and service sectors, Accidents, injuries and workplace fatalities statistics, Occupational safety and health management systems (international and national).

Safety Management: Regulations of health, safety and environment. Internal control and management philosophy, Duties and rights, strategies and goals, Roles and responsibilities of occupational health and safety professionals.

Key principles of management and HSE, Measures and models for HSE, Organizational environment, HSE statutes and regulations, Establishing HSE plans, Challenges of health within working environment, external environment and safety, Different tools and instruments.

Culture, Behavior, Interactions, participation and communication, health surveillance, injury reporting, Emergency response procedures; fires, spills, leaks etc., Preparedness and monitoring of adverse events and follow-ups, Case studies.

Work Place Safety and Health: Assessing current practices and promoting change in the profession, Personnel Protective Equipment, Formulation of Standard operating procedures, Human Factors and Ergonomic, Planning, decision making and problem solving.

Recommended Books

1. Reese, C. D. (2012). *Occupational Health and Safety Management: A Practical Approach* (2nd). CRC Press, Taylor and Francis group. USA.
2. English, P. F. (2012). *Safety Performance in a Lean Environment: A Guide to Building Safety into a Process (Occupational Safety & Health Guide Series)*, CRC press. Taylor and Francis group. USA.
3. Salvendy, G. (2012). *Handbook of Human Factors and Ergonomics* (4th ed). John Willey Inc. New Jersey, USA.
4. Pain, S. W. (2008). *Safety, Health and Environmental Auditing: A Practical Guide*. CRC press. Taylor and Francis group. USA.