
♦ **POST GRADUATE DIPLOMA IN INDUSTRIAL SAFETY (PGDIS) – Syllabus Overview:**

Semester/Module-Wise Breakdown

Module 1: Principles of Occupational Health and Industrial Safety - Concept of safety, health, and environment - Safety management principles - Roles and responsibilities of safety professionals

Module 2: Industrial Legislation and Safety Regulations - Factories Act and State Rules - Environment Protection Act - ISO 45001 and OSHA compliance

Module 3: Hazard Identification and Risk Assessment - HIRA methodology - Job Safety Analysis (JSA) - Risk control measures and documentation

Module 4: Fire and Electrical Safety - Fire science and classifications - Fire detection and suppression systems - Electrical hazard prevention and control

Module 5: Mechanical and Construction Safety - Machine guarding and lock-out/tag-out systems - Construction site safety and working at heights - Scaffoldings, cranes, and lifting operations

Module 6: Chemical and Process Safety Management - Hazardous materials and MSDS - Process safety and control systems - Chemical spill and emergency handling

Module 7: Environmental Safety and Sustainability - Waste management and pollution control - ISO 14001 environmental management systems - Water, air, and noise pollution control methods

Module 8: Industrial Hygiene and Occupational Health - Ergonomics and human factors - Noise, vibration, radiation control - Workplace health surveillance programs

Module 9: Accident Investigation and Emergency Planning - Incident investigation techniques - Root cause analysis - Onsite/offsite emergency plans and mock drills

Module 10: Safety Audit and Training Techniques - Audit planning and execution - Safety training modules and delivery - Behavior-based safety and employee engagement

Project Work / Viva / Industrial Training - Real-time project or industrial training - Final evaluation and presentation
