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| Name of Faculty | : | Faculty of Science |
| Name of Program | : | Master of Science |
| Course Code | : | 1MSF02 |
| Course Title | : | Industrial Safety Management |
| Type of Course | : | Professional Core |
| Year of Introduction | : | 2023-24 |

| | | |
|-------------------------|-----|--|
| Prerequisite | : | Basic knowledge about safety. |
| Course Objective | : | Students will study importance of Industrial Safety. Students will understand to keep your work environment accident free. |
| Course Outcomes | : | At the end of this course, students will be able to: |
| | CO1 | Analysis of safety in different types of Industry. |
| | CO2 | Apply the principles and techniques of Leadership. |
| | CO3 | Understand the safety management system. |
| | CO4 | Evaluate a role of occupier and factory manager for accident prevention. |

Teaching and Examination Scheme

| Teaching Scheme (Contact Hours) | | | Credits | Examination Marks | | | | Total Marks |
|---------------------------------|---|---|---------|-------------------|-----|-----------------|-----|-------------|
| L | T | P | | Theory Marks | | Practical Marks | | |
| | | | C | SEE | CIA | SEE | CIA | |
| 5 | 0 | 0 | 5 | 70 | 30 | - | - | 100 |

Legends: L-Lecture; T-Tutorial/Teacher Guided Theory Practice; P – Practical, C – Credit, SEE – Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Course Content

| Unit No. | Topics | Teaching Hours | Weightage | Mapping With COs |
|----------|---|----------------|-----------|------------------|
| 1 | Henrichs Axioms of Industrial Safety, Concepts of Safety, Organization for Safety, Organization, Definition, Need & Principles Organizing for Health And Environmental, Activities, Organization Structure, Function & Responsibilities | 15 | 25% | CO1 |
| 2 | Directing For Safety, Direction, Definition, Process, Principles and Techniques Leadership, Role, Function And, Attributes of A Leader. | 15 | 25% | CO2 |

| | | | | |
|---|--|----|-----|-----|
| 3 | Safety Management System, Objectives of Health, Safety and Environment Policy, Responsibility for Implementation of HSE Policy. | 15 | 25% | CO3 |
| 4 | A) Role of Occupier and Factory Manager, Factory Safety Committee, Structure and Functions and Working Tenure Details Etc. B) ACCIDENT PREVENTION: Definition : Incident, Accident, Injury , Dangerous occurrence ,Unsafe Act, Unsafe, Conditions, Hazards, Error, Oversight, Mistake ,Near Miss ,Electricity & Hazards ,Of Electricity ,Explosives And ,Transportation Safety. | 15 | 25% | CO4 |

| Suggested Distribution of Theory Marks Using Bloom's Taxonomy | | | | | | |
|---|-------------|---------------|-------------|---------|----------|--------|
| Level | Remembrance | Understanding | Application | Analyse | Evaluate | Create |
| Weightage | - | 25 | 25 | 25 | 25 | - |

NOTE: This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Suggested Learning Websites

| Sr. No. | Name of Website |
|---------|---|
| 1 | https://archive.nptel.ac.in/courses/105/102/105102176/ |

Reference Books

| Sr. No. | Name of Reference Books |
|---------|--|
| 1 | Fundamentals of Industrial safety & health by K.U. Mistry. |
| 2 | Factories Act 1948 |