

<b>Name of Faculty</b>	:	Faculty of Science
<b>Name of Program</b>	:	Master of Science
<b>Course Code</b>	:	1MSF03
<b>Course Title</b>	:	Fire Protection Equipments Appliances
<b>Type of Course</b>	:	Professional Core
<b>Year of Introduction</b>	:	2023-24

<b>Prerequisite</b>	:	Fire-fighting equipment includes fire hoses, fire extinguisher, Fire-Resistant protective clothing, fire-resistant protective Clothing, fire - resistant gloves, respirators, and communication equipment.
<b>Course Objective</b>	:	To Prevent and Suppress Unwanted Fires by Rendering Prompt And efficient Services So as to keep the Loss of Life and Property to the Minimum.
<b>Course Outcomes</b>	:	At the end of this course, students will be able to:
	CO1	Understanding Types of Fire
	CO2	Remembering and Know the Use of Valves
	CO3	Analysis of how to use fire equipment and Heavy vehicles.
	CO4	Application of how to use small equipment in fire-fighting.

### Teaching and Examination Scheme

Teaching Scheme (Contact Hours)			Credits	Examination Marks				
L	T	P		Theory Marks		Practical Marks		Total Marks
5	0	0	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	Properties of hazardous chemicals & handling procedure , fixed fire fighting installation.	15	25%	CO1
2	Fire Hose and Hose Fittings, Hydrants And Water Supply.	15	25%	CO2

3	Fire protection hydraulics, pumps, abstracts from factories act,1948, fire protection law etc.	15	25%	CO3
4	A) Hazards in special area and fire protection, turn table ladder, fire investigation and plan reading. B) Small gears, special appliance, transportation and storage of hazardous goods.	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	<a href="https://archive.nptel.ac.in/courses/105/102/105102176/">https://archive.nptel.ac.in/courses/105/102/105102176/</a>

#### Reference Books

Sr. No.	Name of Reference Books
1	Carl Goodson, "Essentials of fire fighting" Fire protection publications; 5th edition
2	2. Pann Well, "Fire engineering's skill drills for Fire Fighter", Pann Well; 1st & 2nd edition