Faculty of Science
Master of Science (M.Sc.)
(W. E. F.: 2023-24)
Document ID: SUTEFSCM-01

Name of Faculty	:	Faculty of Science
Name of Program	:	Master of Science
Course Code	:	2MSF01
Course Title	:	Emergency Management
Type of Course	:	Professional Core
Year of Introduction	:	2023-24

Prerequisite	:	Knowledge of emergency system
Course Objective	:	To develop, implement, establish and report on controls to prevent, manage and mitigate conditions during an emergency, under a coordinated and systematic response management structure. To notify and activate early all necessary company and response organization resources to respond in a timely manner to emergency incidents.
Course Outcomes	:	At the end of this course, students will be able to:
	CO1	Understanding of handling Industrial Emergency system.
	CO2	Analyse properties of Chemicals
	CO3	Remember management of occupational health and communication.
	CO4	Apply rescue process Onsite and Offsite.

Teaching and Examination Scheme

Teaching Scheme (Contact Hours)			Credits	Examination Marks				
				Theory Marks		Practical Marks		Total Marks
L	T	P	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	Emergency Management and Statutory Requirements, Planning For Handling Industrial Emergencies.	15	25%	CO1
2	Classification of Petroleum and Properties, General Properties of Chemicals.	15	25%	CO2

3	Hazardous Chemicals and Management of Occupational Health, Communication during Emergency	15	25%	CO3
4	A) Entry Search and Rescue Procedure, Onsite Emergency Plan. B) Offsite emergency plan, special services	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	ILO, Geneva: Major Hazard Control-a Practical Manual.
2	UNEP, Paris: APELL- A Process for responding to technological accidents ,A Handbook, Industry & Environment Office. 1998
3	Accident Prevention Manual for Business and Industry, Vol. I-National Safety Council, USA.
4	Oils pill Response: The National Contingency Plan –Institute of Petroleum, London
5	Petak, W.J and At kisson, A.A.: Natural Hazard Risk Assessment and Public Policy : Anticipating the Unexpected