M.Tech in
Industrial Safety & Engineering
Course Curriculum

Academic Year: 2024-25

W.e.F. July 2024

GSFC University, Vigyan Bhavan, P. O. Fertilizernagar, Vadodara - 391750, Gujarat, India

Teaching Scheme

Semester –I

Sr. No.	Course Code	Course Name	Teaching Scheme (Hours/week)				Teaching Credit			
			L	P	T	Total	L	P	T	Total
1	MTIS101	Statistical And Computational Methods	2	0	1	3	2	0	1	3
2	MTIS102	Fundamentals of Fire & Life Safety	3	0	0	3	3	3	0	3
3	MTIS103	Fundamentals of Industrial Safety Management	3	0	0	3	3	0	0	3
4	MTIS104	Professional Elective (Fire)-1	3	0	0	3	3	0	0	3
5	MTIS105	Professional Elective (Industrial safety) -2	3	0	0	3	3	0	0	3
6	MTIS106	Laboratory - 1	0	2	0	1				
7	Audit Course	Research Methodology	0	0	0	0	--	--	--	--
8	MTIS107	Internship - 1	0	0	0	2		--	--	--
		Total	**14**	**2**	**1**	**18**				

Note: L = Lecture, P = Practice, T= Tutorial, MS - Mid Semester, CEC - Continuous Evaluation Component, ES - End Semester

Teaching Scheme

Semester – II

Sr. No.	Course Code	Course Name	Teaching Scheme (Hours/week)				Teaching Credit			
			L	P	T	Total	L	P	T	Total
1	MTIS201	Computational Fire Modelling & Risk Analysis	4	0	2	5	4	0	2	5
2	MTIS202	Advance Fire Dynamics	3	0	0	3	3	0	0	3
3	MTIS203	Safety Management	3	0	0	3	3	0	0	3
4	MTIS204	Professional Fire Electives 2	3	0	0	3	3	0	0	3
5	MTIS205	Professional Safety Electives 2	3	0	0	3	3	0	0	3
6	MTIS206	Fire Dynamics & suppression lab	0	2	0	1	0	2	0	1
7	MTIS207	Industrial Internship	0	0	0	2	0	0	0	2
8	MTIS208									
		Total								

Note: L = Lecture, P = Practice, T= Tutorial, MS - Mid Semester, CEC - Continuous Evaluation Component, ES - End Semester

Teaching Scheme

Semester –III

Sr. No.	Course Code	Course Name	Teaching Scheme (Hours/week)				Teaching Credit			
			L	P	T	Total	L	P	T	Total
1.	MTIS301	Regulatory Compliance for Fire & Safety	3	0	0	3	3	0	0	3
2.	MTIS302	Occupational Health & Hygiene	3	0	0	3	3	0	0	3
3.	MTIS303	Smoke Management & Fire Alarm system	3	0	0	3	3	0	0	3
4.	MTIS304	Professional Fire Elective 3	3	0	0	3	3	0	0	3
5.	MTIS305	Professional Safety Elective 3	3	0	0	3	3	0	0	3
6.	MTIS306	Industrial Internship	0	0	0	2	0	0	0	2
		Total	**15**	**0**	**0**	**17**	**15**	**0**	**0**	**17**

Note: L = Lecture, P = Practice, T= Tutorial, MS - Mid Semester, CEC - Continuous Evaluation Component, ES - End Semester

Teaching Scheme

Semester –IV

Sr. No.	Course Code	Course Name	Teaching Scheme (Hours/week)				Teaching Credit			
			L	P	T	Total	L	P	T	Total
1.	BTIS801	Major Project	0	16	0	15	0	8	0	15
0		Total								

Note: L = Lecture, P = Practice, T= Tutorial, MS - Mid Semester, CEC - Continuous Evaluation Component, ES - End Semester