

Syllabus (Effective from Academic Year June, 2017),
Institute of Science & Technology for Advanced Studies & Research (ISTAR)
Sardar Patel University, Vallabh Vidyanagar - 388 120, Gujarat

M. Sc. (Industrial Hygiene and Safety) Choice Based Credit System (CBCS)

SEMESTER – I CORE COURSES AND FOUNDATION COURSE

Sr No.	Paper Code	Title of Paper	L	P	Total Credits	Total Marks	External Marks	Internal Marks
1	PS01CIHS21	Introduction to Industrial Hygiene, Occupational Health & Environmental Toxicology	4		4	100	70	30
2	PS01CIHS22	Safety Management	4		4	100	70	30
3	PS01CIHS23	Air Sampling Analysis	4		4	100	70	30
4	PS01CIHS24	Safety Engineering-I	4		4	100	70	30
5	PS01CIHS25	Practical, Seminar ,viva Based on PS01CIHS21 and PS01CIHS23	-	8	4	100	70	30
6	PS01CIHS26	Comprehensive Viva-Voce	1		1	50	50	-
7	PS01FIHS21	Introduction to Human Physiology,	4		4	100	70	30

		Biostatistics and Epidemiology						
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**SEMESTER – II
CORE COURSES**

Sr No.	Paper Code	Title of Paper	L	P	Total Credits	Total Marks	External Marks	Internal Marks
1	PS02CIHS2 1	Industrial Ventilation	4		4	100	70	30
2	PS02CIHS2 2	Hazard Identification, Assessment and Control Techniques	4		4	100	70	30
3	PS02CIHS2 3	Physical Aspects of the Environment	4		4	100	70	30
4	PS02CIHS2 4	Safety in Chemical Industry	4		4	100	70	30
5	PS02CIHS2 5	Practical, Seminar and VIVA Based on PS02CIHS21 and PS02CIHS23	-	8	4	100	70	30
6	PS02CIHS2 6	Comprehensive Viva-Voce	1		1	50	50	-
Elective Courses								

6	PS02EIHS2 1	Industrial Visits and Seminars	4	-	4	10 0	70	30
7	PS02EIHS2 2	Accident Case Studies	4	-	4	10 0	70	30

SEMESTER – III**CORE COURSES**

Sr No.	Paper Code	Title of Paper	L	P	Total Credits	Total Marks	External Marks	Internal Marks
1	PS03CIHS2 1	Medical Surveillance and Biological Monitoring	4		4	100	70	30
2	PS03CIHS2 2	Hazardous Waste Management	4		4	100	70	30
3	PS03CIHS2 3	Principles of Ergonomics	4		4	100	70	30
4	PS03CIHS2 4	Safety Engineering-II	4		4	100	70	30
5	PS03CIHS2 5	Legislation on Safety & Health	4		4	100	70	30
6	PS03CIHS2 6	Comprehensive Viva-Voce	1		1	50	50	-
Elective Courses								
1	PS03EIHS2 1	Advanced Safety Management and Engineering Techniques	4	-	4	100	70	30
2	PS03EIHS2 2	Safety in Construction Industry	4	-	4	100	70	30

SEMESTER – IV

CORE COURSES

Sr No.	Paper Code	Title of Paper	L	P	Total Credits	Total Marks	External Marks	Internal Marks
1	PS04CIHS2 1	OHSAS Standard AND ISO14001:20 15	4	-	4	10 0	70	30
2	PS04CIHS2 2	Project Work / Dissertation*	-	-	20	50 0	50 0	-
3	PS04CIHS2 3	Comprehensive Viva-Voce	1		1	50	50	-

* Each student has to work in industry or complete the assigned project work on hygiene/safety or both in research institute/small scale industries/ institutions/MNCs / consultancies etc .Minimum duration of the Project Work/Dissertation work will be 12 weeks. The student will be guided from the department and also from the concerned authority under whom he is working.

Scope: The scope of the course is very wide. The students passing with the M. Sc. degree in Industrial Hygiene are expected to have opportunity at:

- a. Safety Officers in Industries
- b. Industries as Hygienists
- c. Chemical, Pharmaceutical, Petroleum Industries
- d. Safety and Environmental consultants
- e. Safety Executives in Major Accident Hazard Installations

Duration: Two years Master Degree Course in Science with Four Semesters (CBCS).

Eligibility: BE or B Sc

Number of Seats: 15(Fifteen)