



INDIA'S FIRST UNIVERSITY FOR STARTUP

VALUE ADDED COURSE

Swarnnim Institute of Technology

Course Code:- VACFST

Year: 2023-2024

Semester:- Odd



Swarnnim Institute of Technology
Swarnnim Startup & Innovation University
University Campus, Bhoyan Rathod, Near ONGC WSS, Opp. IFCCO, Adalaj Kalol Highway,
Gandhinagar, Gujarat, INDIA 382420 Phone: 095123 43333

Subject: Fire Safety & Training

Program:	Bachelor of Engineering	Branch:	All
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Hours:- 36 hrs.

Objective:-

- ❖ To educate a set of practices & procedures to minimize the destruction caused by fire hazards.
- ❖ To equip learners to, combat fire in any unanticipated fire breakout.
- ❖ To enable the students to recognize the workplace fire hazards prior and ensure adequate control measures are in place.

Detail Syllabus:-

Sr.	Content	Total Hrs
1	Module-1: Fire Safety Legislation, Causes & Costs of fires, Physics & Chemistry of fire, Development and spread of fire, Action in the event of fire & upon hearing the Fire Alarm, Raising the alarm and summoning the Fire Brigade, Fighting a fire, Choosing the correct extinguisher, Correct use of the extinguisher, Evacuation procedures.	09
2	Module-2:- Fire Safety Legislation, Theory of Fire & Fire Extinction, Chemistry of Fire, Demonstration of Fire Hazards, Spread of Fire and Smoke behavior, Ignition sources, Portable Fire Extinguishers & their uses, Fire prevention & Evacuation Procedures, Duties of the Fire Warden.	09
3	Module-3:- Fire Triangle & Chemistry of Fire, Dangers and consequences of fire, Basic precautions and good housekeeping, Portable Fire Extinguishers and their uses, Practical “ Hands On “ extinguisher training. (Gas Controlled), Fire handling drill	09
4.	Module-4:- Manual Handling Legislation – as it applies to the employer and employee, Dangers and harm caused by careless /unskilled methods of manual handling, Principles of levers and laws of motion, Anatomy of the spine and muscular system, Risk Assessment, How to handle loads safely, Practice in safe handling of loads.	09



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Reference Book:

1. Prakash, Sesha N. 2017. Manual of Fire safety , 1st edition, CBS.
2. Kumar, Das Akhil. 2020. Principles of Fire & Safety Engineering , 2nd edition, PHI Learning Pvt Ltd.
3. Rao , Sunil S. 1997. Electrical & Safety , Fire safety Engineering & Safety Management, 2nd edition, Khanna Publishers 2005th Edition

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