

Course code.	Course Name	L-T-P - Credits	Year of Introduction
FS231	SAFETY ENGINEERING LAB	0-0-3-1	2016
Prerequisite : FS205 & FS208			
Course Objectives <ul style="list-style-type: none"> • To understand about various equipments used for safety in an industry. • To impart the basic knowledge about safety audit, work permit. • To give practical exposure on using various fire fighting devices and techniques. 			
List of Exercises/Experiments : (All are compulsory) <ol style="list-style-type: none"> 1. Study of elements of fire and their use. 2. Study of PPE's. 3. Study and use of different extinguishing Hand Appliances - water, foam, dry powder, ABC Powder, CO₂, Halon. 4. Fire protection - graphic symbols and safety signs. 5. Hose drills – laying one hose, connection and disconnection couplings. 6. Rescue drills – The fireman's lift, fireman's drag, and fireman's hand stretchers. 7. Accident investigation and Analysis – Exercises 8. Calculation of cost of accidents. 9. Job safety analysis – Exercises 10. Safety audit of a laboratory. 11. Preparation of work permits. 12. Safety assessment of a construction site. 13. Study and demonstration of fire safety systems. 			
Expected outcome. <p>The student will be able to</p> <ol style="list-style-type: none"> i. Identify hazards and use the proper safety equipments. ii. Analyze and prepare the various documents in safety industry. iii. Act in cases of emergency and prove the worth of performing the drills. 			