

**SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA
(LECTURE PLAN)**

Subject: **Occupational Health and Safety Administration (MBEM 124)**

Class: MBEM, II Semester

Dr.M. Kranti Kumar
Internal Marks: 50

Dept: Architecture
External Marks: 50

Number of Hours:03
Total Marks: 100

Objective: To study and understand the various safety concepts and requirements applied to construction industry. To study the various construction safety problems and safety programs. To study the various laws related to safety in construction industry.

S.NO	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	REMARKS
1	Week 1	Introduction to Occupational Health and safety Administration and basic discussion.	Lecture
2	Week 2	Site Management ➤ Organization of site operations ➤ Temporary structures ➤ Site management procedures and documentation	Lecture
3	Week 3	➤ Health safety and environmental management ➤ Safety procedures and management responsibilities ➤ Principles, systems and Practices of safety Management ➤ Project Environmental management	Lecture
4	Week 4	Safety problems in Construction ➤ Safety problems in construction ➤ Hazards in construction projects ➤ Accident: definition, causes, cost, measurement ➤ Investigation and prevention of accidents ➤ Legal and financial aspects of accident ➤ Safety Program	Lecture
5	Week 5	➤ Presentation	Lecture
6	Week 6	➤ Presentation	
7	Week 7	Safety in use of construction equipment	Lecture
8	Week 8	➤ Presentation	
9	Week 9	➤ Presentation	
10	Week 10	MID -TERM ASSESSMENT	
11	Week 11	Laws related to safety in construction industry ➤ Laws related to the Industrial Safety ➤ Safety Provisions in the Factory Act ➤ Measurement of Safety Performance ➤ Safety Audit	Lecture

12	Week 12	Safety Programes Elements of an Effective and safety program ➤ general safety program in construction industry	Lecture
13	Week 13	➤ Hazard Identifications and Control Techniques – HAZOP, FMEA, FMECA	Lecture
14	Week 14	➤ INTERNAL TEST/PRESENTATION	
15	Week 15	➤ INTERNAL TEST/PRESENTATION	-
16	Week 16	Revision	

Tentative Break-up of Internal Assessment

S. No.	Evaluation	Marks	Note
1	Internal test/ Assessment	15	1. Marks allotted at each stage is tentative 2. New stages or categories of evaluation may be included if and when the need arises
2	Mid Term Evaluation	20	
3	Seminar Presentation	15	

Reference Books

1. Richard J. Coble, Jimmie Hinze and Theo C. Haupt, "Construction Safety and Health Management ", Prentice Hall Inc., 2001. Internal continuous assessment: 100 marks Internal continuous assessment is in the form of periodical tests, assignments
2. Kwaku A., Tenah and Jose M.Guevera, "Fundamental of Construction Management and Organization ", Prentice Hall of India, 1995.
3. Juran Frank, J.M. and Gryna, F.M. " Quality planning and Analysis ", Tata McGraw Hill, 1982.
4. Hand book on Construction Safety Practices, SP:70, BIS,2001.
5. Safety Management in Construction Industry- A manual for project managers, NICMAR, Mumbai

Sd/-

Dr.M.Kranti Kumar