

Theoretical and practical course plan form - Ilam University of Medical Sciences

Introduction of the course: Safety in civil operations of the second semester 2020-2021

School: Health Department: Occupational Health

\* Course name and number: Safety in civil operations 2 units 1.5 theory, 0.5 practical

\* Field and Degree: Continuing Bachelor of Occupational Health Engineering and Occupational Safety Semester 2

\* Day and time: Saturday 12-10

\* Venue: School of Health

\* Name of the person in charge of the course (teacher): Dr. Hojjatullah Kakai

\* Prerequisite courses: Familiarity with industries and knowledge of industrial techniques

\* Office address: School of Health - Department of Occupational Health

\* Email: [hojatkakaei@gmail.com](mailto:hojatkakaei@gmail.com)

**General purpose of the lesson:** Familiarity with safety principles in civil operations and knowledge of construction and construction equipment and machinery as well as mines

\* **Specific or partial objectives of the lesson:** The specific objective is better to be written in a behavioral way.

1- National and international concepts, laws and regulations and classification of civil operations

2- Familiarity with construction machinery

3- Work safety at height, excavation, enclosed space, work area

4- Safety of lifts, cranes, forklifts

5- Familiarity with civil types and its extraction methods

6- Familiarity with different types of explosives and fire operations

• **Student duties** (student homework during the semester):

Student participation in theoretical and practical class activities, solving assigned tasks and assignments, regular attendance in theoretical and practical classes, performing relevant laboratory projects

• **Main sources** (observing the principles of source writing and giving an address for their preparation, including library, bookstore, internet ...)

Applied safety in industry, Dr. Habibi

machines Safety of Dr. Adl's

Safety for Dr. Mohammadfam engineers

**Teaching methods and teaching aids used:** teaching methods including, lectures, feedback lectures, conference questions and answers, group discussions, projects, - other methods .... (Whiteboard and video projector)

- Lecture, problem solving, project & laboratory (for the practical part of the course) as an experiment by the student
- Practical part: visiting workshops and industrial factories

**• Methods and time of assessment and evaluation of the student and the bar related to each assessment:**

Method	Score	Date	Time
Questioning and answering students orally and performing activities requested of students	2	During semester	In each lesson
Midterm exam	4	10-12	
Final exam (final)	14		

Session	Time	Topic	Lecturer	Necessary preparation of students before the start of the class
1	10-12	Introduction and acquaintance, expression of rules and topics and lesson plans	Dr. Kakai	-----
2		Classification of civil works and safety principles in equipping the workshop		Study the topics of the previous sessions
3		Familiarity with construction machinery and equipment		
4		Familiarity with construction machinery and equipment		
5		Principles of safe demolition of buildings and safety of work at height		
6		Work permits, crane, lift and forklift safety		
7		Excavation safety		
8		Safety of work in enclosed space		

9		midterm exam		
10		Definitions and common terms in mining and investigation of mining accidents		
11		Types of mines and methods of extraction from them		
12		Types of drilling in the mine		
13		Types of explosives and methods of safe use in firefighting operations		
14		Principles of safety in the transportation and storage of explosives		
15		Monitoring and control of dust and toxic gases in mines, unsafe practices and behavior in mining operations		
16		Personal protection equipment in civil operations		
17		End of semester exam		