



**Mongolian University of Science and Technology**  
Curriculum development and Registration office

**COURSE SYLLABUS**

<b>Course Title</b>	Introduction to Occupational Safety		
<b>Course Code</b>	OS	<b>No. of Credits</b>	3
<b>Department</b>		<b>School</b>	MUST
<b>Pre-requisites Course Code</b>	none	<b>Co-requisites Course Code</b>	
<b>Course coordinator</b>	T.Uranchimeg	<b>Room number</b>	
<b>Email</b>	<a href="mailto:Uranchimegtc@must.edu.mn">Uranchimegtc@must.edu.mn</a>	<b>Telephone No.</b>	80254553
<b>Other Instructor(s)</b>			
<b>Learning Hours</b>	Total: . . . Learning hours (2:1:1:5) Lecture (. . hr), Seminar (. . hr), Field trip(. . hr), (. . hr)		
<b>Course Type</b>	<input checked="" type="checkbox"/> Compulsory <input type="checkbox"/> Elective <input type="checkbox"/> Selected elective <input type="checkbox"/> Other		
<b>Offer in Academic Year</b>	<input type="checkbox"/> 1 <sup>st</sup> Semester <input checked="" type="checkbox"/> 2 <sup>nd</sup> Semester <input type="checkbox"/> Summer <input type="checkbox"/> Year Long		
<b>Introduction language</b>	Mongolian or English		

**AIMS AND OBJECTIVES:**

- Recognize the interrelatedness of management, employees, and the government to the goals of occupational safety.
- Demonstrate a base of knowledge in the recognition and assessment of occupational safety hazards in the workplace.
- Identify a conceptual framework for the practice of occupational safety.
- Relate promotion/prevention/protection concepts to the occupational safety program.
- Discuss the roles and functions of the occupational safety professional in the application of the conceptual framework.
- Apply theories and concepts of occupational safety to the development and management of programs.

- Identify education, engineering, and enforcement controls for the prevention of occupational safety problems.

**ESSENTIAL READINGS: (Journals, textbooks, website addresses etc.)**

**BIBLIOGRAPHY:**

- MARK A. FRIEND AND JAMES P. KOHN **Fundamentals of Occupational Safety and Health Fourth Edition** ISBN-13: 978-0-86587-171-7 (pbk. : alk. paper) ISBN-10: 0-86587-171-X (pbk. : alk. paper)
- DAVID L. GOETSCH **OCCUPATIONAL SAFETY AND HEALTH**, 7th Edition ISBN-13: 978-0-13-700916-9 ISBN-10: 0-13-700916-X.
- Benjamin O. ALLI **FUNDAMENTAL PRINCIPLES OF OCCUPATIONAL HEALTH AND SAFETY**, 2<sup>nd</sup> Edition, ISBN 978-92-2-120454-1

**COURSE DESCRIPTION:**

Protecting physical and psychological health impact in the workplace is critical issue. In this course, students will explore the health and safety issues of various types of work. Students will gain an understanding of the current state of occupational safety and health in the United States and globally including the enforcement of laws regulating occupational safety and health and the roles of workers, unions, and employers. The historical, economic, and cultural forces contributing to and inhibiting solutions to occupational safety and health problems will be analyzed.

**TEACHING METHODS:** Flipped classroom and problem-based learning (Blended learning)

**COURSE CONTENT**

<b>Course topics for lecture and seminar:</b>	<b>Lecture hours</b>	<b>Seminar hours</b>
Introduction to Occupational Safety and health	2	
Safety Legislation	2	
Workers' Compensation and Recordkeeping	2	
Accident Causation and Investigation: Theory and Application	2	
Ergonomics and Safety Management	2	
Fire Prevention and Protection	2	
System Safety	2	
Managing the Safety Function	2	
Psychology and Safety: The Human Element in Loss Prevention	2	
Improving Safety Performance with Behavior-Based Safety	2	
Workplace Violence	2	
Terrorism Preparedness	2	
Hazardous Materials	2	
Resources on Safety and Health	2	

COURSE LEARNING OUTCOMES (CLOs)		Aligned PLOs
<b>By the end of the main course, the students should be able to:</b>		
1.	<b>Recognize</b> the interrelatedness of management, employees, and the government to the goals of occupational safety.	
2.	<b>Demonstrate</b> a base of knowledge in the recognition and assessment of occupational safety hazards in the workplace.	
3.	<b>Identify</b> a conceptual framework for the practice of occupational safety.	
4.	<b>Relate</b> promotion/prevention/protection concepts to the occupational safety program.	
5.	<b>Discuss</b> the roles and functions of the occupational safety professional in the application of the conceptual framework.	
6.	<b>Apply</b> theories and concepts of occupational safety to the development and management of programs.	
7.	<b>Identify</b> education, engineering, and enforcement controls for the prevention of occupational safety problems.	

### COURSE TEACHING AND LEARNING ACTIVITIES

**Weekly contact hours:** (.....)-..... hour lecture, 1x1 hour seminar, Field trip .....hour laboratory. Traditional and active learning methods will be used within lecture, seminar and field trip classes.

Learning methods /Pedagogy/	Modes of Delivery	Aligned CLOs
➤ Case based learning	✓ Lecture	
➤ Flipped classroom	✓ Seminar and discussion	
➤ Experiential learning	✓ Team and individual team work	

### COURSE ASSESSMENT METHODS

Assessment tools	Assessment frequency	Weight	Aligned CLOs
Attendance/Participation in class	Weekly	10%	
Homework/assignment	6, 7,8,9,10,11,12,13 <sup>th</sup> weeks	20%	
Case processing/ Course work/project	13 <sup>th</sup> weeks	20%	
Midterm exam	7, 14	20%	
Final exam	17 or 18 <sup>th</sup> week	30%	

### REVISED BY:

<b>Course coordinator:</b>	<b>T.Uranchimeg</b>	<b>Date</b>	<b>15/12/2019</b>
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### APPROVED BY:

<b>Head of Department:</b>		<b>Date</b>	
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