

## Module (Course Syllabus) Catalogue

### 2022-2023

College/ Institute	Koya Technical Institutis	
Department	Community Health	
Module Name	Occupational Health and Safety	
Module Code		
Degree	Technical Diploma <input type="checkbox"/> *	Bachelor <input type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/> PhD <input type="checkbox"/>
Semester	4	
Qualification		
Scientific Title	Assistant Lecturer	
ECTS (Credits)	5	
Module type	Prerequisite <input type="checkbox"/>	Core <input type="checkbox"/> * Assist. <input type="checkbox"/>
Weekly hours		
Weekly hours (Theory)	( 2 )hr Class	( 2 )Total hrs Workload
Weekly hours (Practical)	( 3 )hr Class	( 3 )Total hrs Workload
Number of Weeks	12	
Lecturer (Theory)	Hemn Sleman Ali	
E-Mail & Mobile NO.	<a href="mailto:Hemn.ali@epu.edu.iq">Hemn.ali@epu.edu.iq</a> 07501194478	
Lecturer (Practical)	Gulala Abdulsalam Hamad +Abas Umer Hamadamin	
E-Mail & Mobile NO.	<a href="mailto:abas.hamadamin@epu.edu.iq">abas.hamadamin@epu.edu.iq</a> 07501205078	
Websites		

# Course Book

<p><b>Course Description</b></p>	<p>The field of occupational health and safety (OHS) has become a topic of increasing importance over the last 30 years. The establishment of the Occupational Safety and Health Administration (OSHA) in 1970 reflected the recognition that safety in the workplace is a basic expectation for all employees. Originally addressing concerns in industry and hazards associated with mechanical injury, the field of occupational health and safety has expanded to almost every workplace environment, from the office to the airplane, as well as to the laboratory and the vivarium.</p>			
<p><b>Course objectives</b></p>	<ol style="list-style-type: none"> <li>1- maintain the physical, mental and social well-being of workers.</li> <li>2- To prevent the unfavorable effects on health caused by working conditions</li> <li>3- To become familiar to occupational environment of physical and mental needs of workers.</li> <li>4- To consider the issues relating to industrial safety, occupational medicine, industrial hygiene, training &amp; education, psychology and so on.</li> </ol>			
<p><b>Student's obligation</b></p>	<p>It is necessary all the students listen and write notes and their obligations throughout the academic year and the attendance and completion of all tests, exams. It should also practice in the laboratory or another place depending on the lecture.</p>			
<p><b>Required Learning Materials</b></p>	<p>Lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters and data collection according to lectures. Field visits to some industrial in the area.</p>			
<p><b>Evaluation</b></p>	<p><b>Task</b></p>	<p><b>Weight (Marks)</b></p>	<p><b>Due Week</b></p>	<p><b>Relevant Learning Outcome</b></p>
<p>Paper Review</p>				
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Assignments</p>	<p>Homework</p>	<p>5</p>		
	<p>Class Activity</p>	<p>2</p>		
	<p>Report</p>	<p>5</p>		
	<p>Seminar</p>	<p>5</p>		
	<p>Essay</p>			
	<p>Project</p>			
<p>Quiz</p>		<p>8</p>		
<p>Lab.</p>		<p>10</p>		
<p>Midterm Exam</p>		<p>25</p>		

	Final Exam	40		
	Total	100		
<b>Specific learning outcome:</b>	<p><b>At the end of year, the student will be able to: -</b></p> <ol style="list-style-type: none"> <li>1- recognize the occupational hazards in general and the methods of protection from the hazards.</li> <li>2- recognize some occupational diseases and the methods of protection from such diseases.</li> <li>3- Learn What is importance of occupational health for increasing productivity in various fields of life.</li> <li>4- To know the significance of toxic materials.</li> <li>5- Definition of occupational health and safety and discussion of some historical aspects of occupational health and safety in developed countries and comparing with some aspects of occupational health in developing countries.</li> </ol>			
<b>Course References:</b>	<ol style="list-style-type: none"> <li>1. Text book of public health and community medicine</li> <li>2. Text book of community and social medicine in developing countries</li> <li>3. Text book of occupational health /by proff. Hikmat jamel university of Baghdad</li> </ol> <p>Parks text book of preventive and social medicine/ K, PARK M.B.B.S., M.S.</p>			
<b>Course topics (Theory)</b>	<b>Week</b>	<b>Learning Outcome</b>		
Introduction and historical background of occupational health and safety	First	Define epidemiology and describe basic terminology		
Type of Hazards in occupation	Second	Student learn the difference between communicable and non-communicable diseases		
Mechanical Hazards(Type of accident)	Third	Student learn about prevention and control of communicable diseases		
Noise –the difference between (Noise & sound)- How noise damages the ear – Health effects and -Protective measures of Noise	Fourth	Student learn relation between human immunity and prevention of some communicable diseases		
Vibration – What injuries can vibration cause - Control and prevention of vibration .....	Fifth	Recognize the different types of epidemiological research methods		

Heat Hazards –Health effects-Controlling of Heat Hazards	Sixth	Student learn descriptive study (cross sectional study and case series study)
Cold Hazards – Health effects - Controlling Cold hazards	Seventh	Student learn descriptive study (Case-control study and Cohort study)
Radiation – Ionizing and Non Ionizing radiation -Preventive exposure to Ionizing radiation -Preventive exposure to Non Ionizing radiation	Eighth	Student learn about randomised controlled trial study
Lightening(illumination ) -The effect of lightening on the human being	Ninth	Student learn about Non-randomised controlled trial study
Chemical hazards -Type of Chemical hazards..... The health effects of chemical hazards	Tenth	Student learn the
Occupational Acquired infections - Zoonotic infections - Infections from human sources	Eleventh	Student learn about Epidemiologically assessment of infectious diseases
Infections from environmental sources -Occupational acquired infections resulting from blood borne transmission	Twelfth	To learn components of research
Occupational stress and Preventive measures	Thirteen	
<b>Practical Topics</b>	<b>Week</b>	<b>Learning Outcome</b>
What is occupational health and safety, the differences between occupational health and occupational safety.	First	Student learn about the differentiation between occupational health and safety
Historical background of occupational health and safety	Second	Student must be learn about history of occupation health and safety
Occupational environment, the causes of under recognition of occupational diseases and the types of hazards in occupation.	Third	to learn the causes of under recognition of occupational diseases
What are toxins, effects of toxins and classification of toxins.	Fourth	Student learn How we can recognize toxins
X-ray center/ Visit to x-ray and CT scan department Wards and operation room.	Fifth	Student learn How we can prevent from type of Radiation
Occupation acquired infection, discussion about main occupational groups at risk of infection + video	Sixth	Student learn occupational acquired infection

Occupation acquired infection resulting from fecal-oral transmission, blood borne transmission and discuss about its + Video	Seventh	To learn about fecal-oral transmission diseases and blood born diseases
Visit to web & spinning (weaving ) factory, video about types of accidents	Eighth	To learn type of hazards in this places
Chemical hazards in occupation, Asphyxiant gases, oxidant gases and Irritant gases + video	Ninth	To learn Type of chemical hazards
Preparing report by each students about ( CO <sub>2</sub> , CO ) definition , sources, health effects, prevention and control + video	Tenth	To learn Hazards about Co and Co <sub>2</sub>
Preparing report by each students about ( lead and Capper ) definition , sources, health effects, prevention and control + video	Eleventh	To learn Hazards about Lead and Capper
Visit to Taq Taq Water project	Twelfth	To learn Type of occupational hazards

### Questions Example Design

**Different** question for examples:-

Q/ choose the correct answer ....?

Q /Match the following.....?

Q/ fill the following blankets .....?

Q/ Enumerate .....?

Q/ Briefly explain or define the following .....?

Q/ MCQ (multiple choice question)

Q/ Write on

Q/ Fill the following

Q/ Case management

### Extra notes:

### External Evaluator