

## MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
<b>Module Title</b>	<b>Occupational Safety</b>		<b>Module Delivery</b>
<b>Module Type</b>	<b>Support</b>		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Laboratory <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
<b>Module Code</b>	<b>UOMU0201024</b>		
<b>ECTS Credits</b>	<b>2</b>		
<b>SWL (hr/sem)</b>	<b>50</b>		
<b>Module Level</b>	<b>1</b>	<b>Semester of Deliver</b>	<b>2</b>
<b>Administering Department</b>	<b>PM</b>	<b>College</b>	<b>TE</b>
<b>Module Leader</b>	Abdulkareem Abdulwahab	<b>e-mail</b>	Abdulkareem.abdulwahab@uomus.edu. iq
<b>Module Leader's Acad. Title</b>	Assist. Prof.	<b>Module Leader's Qualification</b>	Ph.D
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>		<b>e-mail</b>	
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	<b>1.0</b>

Relation with other Modules			
<b>Prerequisite module</b>	None	<b>Semester</b>	
<b>Co-requisites module</b>	None	<b>Semester</b>	

## Module Aims, Learning Outcomes and Indicative Contents

<b>Module Objectives</b>	<p>Understanding the Importance of Occupational Safety: This unit aims to provide students with a comprehensive understanding of the importance of occupational safety in the workplace. Students will identify potential hazards associated with various industries and their impact on employee safety. They will understand the importance of following safety guidelines to create a safe work environment .They will learn how to identify potential hazards, assess their severity and likelihood of occurrence, and develop appropriate control measures to mitigate or eliminate those hazards.</p>
<b>Module Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Identify and assess workplace hazards: Engineering students will be able to identify and assess potential workplace hazards specific to their field of engineering. They will understand the importance of hazard identification and risk assessment in order to prevent accidents, injuries, and occupational illnesses.</li> <li>2. Apply engineering principles to develop safety solutions: Students will be able to apply their engineering knowledge and skills to develop innovative and effective safety solutions. They will understand how engineering principles can be utilized to design and implement engineering controls, safety devices, and protective measures to minimize or eliminate workplace hazards.</li> <li>3. Implement safety standards and regulations: Engineering students will be knowledgeable about relevant safety standards and regulations applicable to their specific engineering discipline. They will understand the importance of compliance with safety standards and be able to apply them in the design, construction, operation, and maintenance of engineering systems and processes. They will also be aware of the legal and ethical responsibilities associated with ensuring occupational safety in their professional practice.</li> </ol>
<b>1. Indicative Contents</b>	<p>Indicative content includes the following.</p> <p>Introduction to Occupational Safety, Identifying and Assessing Risks, Engineering Controls and Safety Systems, Personal Protective Equipment and Safety, Equipment Occupational Health and Industrial Health [10 hrs]</p> <p>Fire Safety and Emergency Preparedness, Electrical Safety in Engineering Machine and Equipment, Safety Construction, Safety in Engineering Projects, Hazardous Materials Management [10 hrs]</p> <p>Revision classes [2 hrs]</p> <p>Incident Investigation and Reporting in Engineering Safety Management Systems in Engineering Application in Occupational Safety 1 Application in Occupational Safety 2. [10 hrs]</p>

## 2. Learning and Teaching Strategies

<b>3. Strategies</b>	<ol style="list-style-type: none"> <li>1. Familiarize yourself with the subject</li> </ol>
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	<p>2. Collaborate and discuss: Engage in discussions and group activities with fellow engineering students. Share experiences, exchange ideas, and learn from each other's perspectives. This collaborative learning environment can broaden your understanding and provide different insights into safety practices.</p> <p>3. Stay updated with industry standards: Keep yourself informed about the latest safety regulations, codes, and standards relevant to the engineering field. Regularly refer to authoritative sources such as government agencies, professional organizations, and reputable publications to stay up-to-date with best practices.</p>
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### Student Workload (SWL)

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	32	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعياً	(32/15)= 2
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعياً	(18/15)= 1
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>50</b>		

### Module Evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
<b>Formative assessment</b>	<b>Quizzes</b>		10% (10)	5 and 10	LO #2
	<b>Assignments</b>		10% (10)	2 and 12	LO #3
	<b>Projects / Lab.</b>		10%		
	<b>Report</b>		10% (20)	8 and 13	LO #1 and LO #2
<b>Summative assessment</b>	<b>Midterm Exam</b>	1hr.	10% (10)	7	LO #1 - #2
	<b>Final Exam</b>	2hr.	50% (50)	16	All
<b>Total assessment</b>			<b>100% (100 Marks)</b>		

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
<b>Week 1</b>	مقدمة في السلامة المهنية
<b>Week 2</b>	تحديد المخاطر وتقييم المخاطر
<b>Week 3</b>	وسائل السيطرة الهندسية وأنظمة السلامة
<b>Week 4</b>	معدات الحماية الشخصية ومعدات السلامة
<b>Week 5</b>	الصحة المهنية والصحة الصناعية
<b>Week 6</b>	سلامة الحرائق والاستعداد للطوارئ

Week 7	سلامة الكهرباء في الهندسة
Week 8	سلامة الآلات والمعدات
Week 9	سلامة البناء في مشاريع الهندسة
Week 10	إدارة المواد الخطرة
Week 11	التدريب والتواصل في سلامة الهندسة
Week 12	تحقيق الحوادث وتقاريرها في الهندسة
Week 13	أنظمة إدارة السلامة في الهندسة
Week 14	تطبيق في السلامة المهنية 1
Week 15	تطبيق في السلامة المهنية 2
Week 16	<b>Preparatory week before the final Exam</b>

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	1. "السلامة والصحة المهنية" بواسطة علي عبد العزيز المرزوقي.	Yes
Recommended Texts		
Websites	<a href="#">"Machine Safety"</a> . NIOSH Workplace Safety and Health Topics. National Institute of Occupational Safety and Health. <a href="#">الأصل</a> مؤرشف من 26-06-2018 في. اطلع عليه بتاريخ 2012-07-11.	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX - Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F - Fail	راسب	(0-44)	Considerable amount of work required

**Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.**

### Module 1

Code	Course/Module Title	ECTS	Semester
PM 106	Occupational Safety	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
0	0	32	18

### Description

السلامة المهنية هي مجال دراسة يركز على تحقيق بيئة عمل آمنة وصحية للعاملين في جميع الصناعات والقطاعات. يهدف العلماء والباحثون في هذا المجال إلى تحليل وتقييم المخاطر المحتملة في مكان العمل وتطوير وتنفيذ استراتيجيات وأنظمة للوقاية والتحكم في هذه المخاطر. تشمل مجالات الدراسة في السلامة المهنية تحديد المخاطر، وتقييم المخاطر، وتصميم وتنفيذ إجراءات السلامة والوقاية، والتدريب والتتقيف، وإدارة الحوادث والطوارئ، والتشريعات والمعايير الخاصة بالسلامة. يهدف العلماء والمهنيون في هذا المجال إلى تعزيز ثقافة السلامة ورفع الوعي بأهمية السلامة المهنية بين العاملين وصناعة الأعمال بشكل عام. تعد السلامة المهنية جزءاً أساسياً من الإدارة الفعالة للمخاطر وتساهم في تحسين الأداء العام والجودة ورفاهية العاملين في بيئة العمل.