



Ministry of Higher Education and
Scientific Research - Iraq
University AL Muthanaa
College of Applied of Medical Sciences
Department of Clinical Laboratories



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Occupational Laboratory Safety	Module Delivery	
Module Type	Core	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Discussion <input checked="" type="checkbox"/> Seminar	
Module Code	PAA-23014		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	2 nd		
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Dr. Dhifaf Jabbar Shamran	e-mail	dhifaf15@mu.edu.iq
Module Leader's Acad. Title	Assistant professor	Module Leader's Qualification	PHD.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Review Committee Approval		Version Number	1

Relation With Other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	-
Co-requisites module	None	Semester	-

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>Protecting human resources from injuries resulting from work environment hazards by preventing their exposure to accidents, injuries, and occupational diseases. Preserving the physical components of facilities and their equipment from damage and loss resulting from accidents. Providing and implementing all occupational safety and health requirements that ensure a safe environment that protects both human and material resources from hazards. Occupational safety and health, as a scientific approach, aims to instill security and peace of mind in workers while performing their work and reduce the anxiety and panic that afflict them as they interact, due to the necessities of life, with tools, materials, and machines that contain life-threatening hazards. This is especially true under unsafe conditions that expose their lives to grave risks from time to time.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>At the end of this module the students will be able to know the following</p> <ol style="list-style-type: none">1. Perform basic occupational safety and health functions.2. Apply a working knowledge of mathematics, sciences and other related disciplines to conduct experiments and to analyze and interpret data to solve occupational safety and health-related issues.3. Identify, formulate and solve applied science problems, using the techniques, skills and modern tools necessary for professional practice.4. Apply the principles of industrial hygiene and toxicology, and use fundamental exposure measurement techniques.5. Evaluate the relevance of contemporary issues in occupational safety and health.6. Identify principles of professional and ethical responsibility for occupational safety and health professionals.7. Apply principles of occupational safety and health through mentored supervised learning experiences.
<p>Indicative Contents</p>	<p>Indicative content includes the following:</p> <p>1-Introduction to biosafety and work-related Injuries, work-related Accidents , Occupational Diseases, Classification of Consequences of Work-related Injuries (2)hrs</p> <p>2- Biosafety in Microbiology Laboratories, Infectious Diseases Common Diseases Caused by Biological Agents Controlling Biological Hazards (4)hrs</p>

المحتويات الإرشادية	<p>3- Methods of Controlling Biological Hazards First: - Establishing, Designing, and Furnishing the Laboratory Second: Training and Qualifying Laboratory Staff Third: Appropriate Selection of Laboratory Staff Fourth: Work Permit Fifth: Human Relations (2) hrs</p> <p>4- Goals of Human Relations Sixth: Psychological State and Mental Health Seventh: The Division of Labor System Eighth: Continuous Monitoring and Inspection Ninth: Issuing Instructions and Legislating When Needed Tenth: The Role of the Media Eleventh: Proper Storage Twelfth: The Last Line of Defense (Personal Protective Equipment) (2) hrs</p> <p>5- identified the Hazardous Waste Biological Waste. Learning the Treatment and Disposal Methods, Mitigation and Dispose, Decontamination Process in Laboratories Microbiology (2)hrs</p> <p>6- Management's Responsibility for Achieving Safety in the Workplace Employee Responsibility for Implementing Occupational Safety Programs (2)hrs</p> <p>7- The Goal of Biosecurity, The Context of Modern Biosecurity Some Factors Affecting Biosecurity, The Risk to Biosecurity (4)hrs.</p> <p>8- International Stakeholders Alignment and Integration of Biosecurity Approaches Requirements for Alignment and Integration in the Approach to Biosecurity (2)hrs .</p> <p>9- Program Management, Physical Security... Access Control and Monitoring Personnel Management, Inventory and Accounting (2)hrs.</p> <p>10- Transportation of Biological Materials, Incidents, Injuries, and Incident Response Plans, Reporting and Communications (2)hrs.</p>
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Lecture Discussion Co-operative learning Problem-Based learning

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل		Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل		Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			

Module Evaluation تقييم المادة الدراسية					
		Time/Nu Mber	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	15% (15)	3,6,9,12	LO#2,5
	Assignments or Home Work	1	5%(5)	5	LO#11
	Projects / Lab. Report	1	5% (5)	2	LO# 3,8
	Seminar	1	5%(5)	4	LO# 11
	Discussion	1	5%(5)	7	LO# 7
	Summative assessment	Midterm Exam	1hr.	10% (10)	8
	Final Exam	2 hr.	50% (50)	16	All
Total assessment			100 %		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Occupational laboratories Safety, Historical Overview, General Objectives
Week 2	Biosafety
Week 3	What are Biological Hazards?

Week 4	Methods of Controlling Biological Hazards 1
Week 5	Methods of Controlling Biological Hazards 2
Week 6	Goals of Human Relations
Week 7	Med term
Week 8	Hazardous Waste, Biological Waste
Week 9	Biosecurity
Week 10	Biosecurity Stakeholders
Week 11	Principles of the Biosafety Laboratory
Week 12	Developing a Biosafety Program
Week 13	Elements of a Safety Program Biology
Week 14	Training and Practice
Week 15	Combating Biological Hazards

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	LABORATORY BIOSAFETY MANUAL FOURTH EDITION/ World Health Organization	No
Recommended Texts	منهاج مادة السلامة والامن الحيوي / اللجنة الجامعية المركزية للسلامة والامن الكيماوي والاشعاعي CBRN والنووي ومنع الانتشار	
Websites		

APPENDIX:

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	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
NB 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.				



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي