

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Spring
Course Information for MA 216 PERSONAL CARRIER AND LABORATORY SECURITY

Course Name: PERSONAL CARRIER AND LABORATORY SECURITY

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
MA 216	4	2	-	2	3

**Name of Lecturer(s)-
Academic Title:** Sangar Ahmed - PhD

Teaching Assistant: non

Course Language: English

Course Type: Main

Office Hours Tuesday and Wednesday

Contact Email: sangar.ahmed@tiu.edu.iq
Tel:07504476182

**Teacher's academic
profile:** PhD

Course Objectives: The main purpose of this course is to study the safety steps in the lab, in order to minimize the risk of injury or illness to laboratory workers by ensuring that they have the training, information, support and equipment needed to work safely in the laboratory. This course covers the importance of the laboratory safety for students whom will be working in the labs during their undergraduate study and in the future. This course is intended to provide an overview of the basic concepts of the lab safety and the international Laboratory Safety Rules such as Control of Substances Hazardous to Health (COSHH) and Occupational Safety and Health Act (OSHA)

**Course Description
(Course overview):** This course aims to provide students with endowed knowledge of career development and laboratory responsibilities. The main theme of the materials is to provide the students with information about the importance of laboratories in the peace making and security. In community health and disease control. The outcome of the course is to arm the student with the facts of laboratory security and safety.

COURSE CONTENT

Week	Hour	Date	Topic
1	2	6-10/2/2022	Course overview
2	2	13-17/2/2022	Introduction to Personal Carrier & Laboratory Security
3	2	20-24/2/2022	Bio-safety
4	2	27/2-3/3/2022	Bio-security
5	2	6-10/3/2022	General Laboratory Safety
6	2	27-31/3/2022	Occupational Safety and Health Administration I
7	2	3-7/4/2022	Occupational Safety and Health Administration II
8	2	10-14/4/2022	Midterm Exam
9	2	17-21/4/2022	Control of Substances Hazardous to Health (COSHH) I
10	2	24-28/4/2022	Control of Substances Hazardous to Health (COSHH) II
11	2	8-12/5/2022	Class Activities
12	2	15-19/5/2022	Class Activities
13	2	22-26/5/2022	Personal career development
14	2	29/5-2/6/2022	Identify the risk assessment

15	2	5-9/6/2022	Final Exam
16	2	12-16/6/2022	Final Exam
COURSE/STUDENT LEARNING OUTCOMES			
1	Explain the Medical Laboratory Security at work		
2	Explain general rules of the laboratory safety OSHA and COSHH;		
3	Describe substances that are hazardous to health and measures for protecting safe working.		
4	Gain an appreciation for the importance of usability within security and privacy		
5	develop risk assessments for scientific laboratories that use chemicals or biological organisms or both.		
COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)			
Program Learning Outcomes			Cont.
1	Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.		I
2	apply principles of evidence-based medicine to determine clinical diagnoses.		A
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.		A
4	formulate and implement acceptable treatment modalities to various disease states.		A
5	use technology effectively in the delivery of instruction, assessment, and professional development.		A
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.		I
7	exhibit organizational skills, accountability, and ethical behavior.		A
8	apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.		P
9	apply problem-solving and decision-making skills.		A
10	apply and promote health policies and regulatory standards in the field career.		A
11	develop research in the field of medical analysis using qualitative and quantitative methods.		A
Prerequisites (Course Reading List and References):	Control of Hazardous Chemicals in the Laboratory: COSHH. Occupational Safety and Health Act OSHA. Health risks in laboratories - HSE.		
Student's obligation (Special Requirements):	N/ATextbook: Human Anatomy & Physiology, 10th edition by Marieb & Hoehn NOTE: Older editions have worked fine for past students; please be aware that some content has changed since earlier editions. • Laboratory manual: Human Anatomy & Physiology Laboratory Manual, Cat Version (12th ed.)		
Course Book/Textbook:	Laboratory Safety Manual. LABORATORY HEALTH AND SAFETY MANUAL for GENERAL LABORATORY PRACTICES.		
Other Course Materials/References:	Laboratory Biosecurity Handbook. (9780849364754): NHBS - Reynolds M Salerno and Jennifer Gaudio, CRC Press.		
Teaching Methods (Forms of Teaching):	Lectures, Presentation, Seminar, , ,		
COURSE EVALUATION CRITERIA			
Method	Quantity	Percentage (%)	
Seminar	1	10	
Attendance	1	5	
Quiz	1	5	
Midterm Exam	1	40	
Final Exam	1	40	
Total		100	
Examinations: True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching, , ,			
Extra Notes:			