

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Erbil health and medical college			
Department	Medical Laboratory Technology-			
Module Name	Organization and management of			
	laboratory			
Module Code				
Degree	Technical Diploma Bachelor			
	High Diploma Master PhD			
Semester	eighth			
Qualification	Bachelor			
Scientific Title	Lecturer			
ECTS (Credits)	2			
Module type	Prerequisite	Core Assist.		
Weekly hours	1			
Weekly hours (Theory)	(1)hr Class	(35)Total hrs Workload		
Weekly hours (Practical)	()hr Class	()Total hrs Workload		
Number of Weeks	14			
Lecturer (Theory)	Ali Zainal Omar			
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Lecturer (Practical)				
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Websites				

Course Book

Course Description	department. It is based or	n lectures and it for nalyze plans for eatory medicine action. Managementabor groups and t	establishing etivity and t and decis heir areas	ion structure. The of responsibility.
Course objectives	 To familiarize with the core concepts and principles of medical ethics and clinical ethics; The student should increase their technical and practical skills and develop a professional approach. Understanding the responsibilities of managing a medical lab. Ability to puts plans for the established laboratory. Demonstrate the ability to apply these plans without losing any rights. Ability to interact with different cultural and intellectual levels. 			
Student's obligation	 Student's obligation Attendance in lecture is expected. You are responsible for everything covered, mentioned, discussed and displayed in class. If you miss a class, get a classmate's notes as my notes will not be available. You cannot excel in this course if you do not come to class. 1- Attendance: students are strongly encouraged to attend class on a regular basis, as participation is important to understanding of the material. This is student opportunity to ask questions. Students are responsible for obtaining any information during the class which provided. 2- Lateness: Lateness to class is disruptive 3- Electronic devices: All cell phones are to be turned off at the beginning of class and put away during the entire class. 4-Talking: During class please refrain from side conversations. These can be disruptive to your fellow students and your professor 			
Required Learning Materials	- Printouts of weekly lectures taught at the college campus - Reviewing of internet			
Forms of teaching	The material will be presented at a level suitable for undergraduates by lecturing, discussion, video, power points and seminar			
Evaluation	Task Paper Review	Weight (Marks)	Due Week	Relevant Learning Outcome
	Paper Review			

		Homework	5%	Encourages students to search for more detailed knowledge relevant to the topics taught at campus.
	As	Class Activity	2%	
	Sig			
	Assignments	Seminar	10%	Enhances the preparation and presenting skills of the students
		report	10%	To make students engage more with their favorite topics
		Project		
	Quiz Midterm Exam Final Exam Total		8%	To encourage students, study every week.
			25%	To evaluate students and their achievements at the middle of the term.
			40%	Final evaluation and assessment.
			100%	
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By the end of this course learners will:

Knowledge and understanding

- describe organization and distribution of responsibility as well as how communication occurs
- explain the significance of the different steps that secure quality in the activity
- describe disease categories as well as diagnostic possibilities and methods for treatment follow up
- explain some specific analyses and examinations including indication and test material, analysis principle, technical processing, result assessment as well as quality assurance. Skill and capability
- apply testing ordinances and cooperate with the patient and relations
- justify the importance of correct disposal of test materials
- plan and carry out analyses and examinations within given time frames
- process and critically interpret results
- -observe and handle deviations

Specific learning outcome:

	 communicate and collaborate with different work categories present and discuss activity related tasks orally and in writing Evaluation capability and approach
	- discuss the medical importance of results attained from analysis and examination - notice ethical problems - plan expenditure of materials and correct handling of infectious agents, chemicals and waste - discuss one's
	Books:
Course References:	1- Laboratory Management Quality in Laboratory Diagnosis Candis A. Kinkus, MBA 2-Laboratory quality management system WHO 2011 3- Turgeon, Mary Louise. (2015). Clinical Laboratory Science, 7th ed. Maryland Heights, MO: Mosby. ISBN 9780323225458

Course topics (Theory)	Week	Learning Outcome
Introduction to lab. Management, accuracy, reliability and reporting must be timely	First	
Facility and safety	Second	
Equipments	Third	
Process control and sample management	Fourth	
Process control—introduction to quality control	Fifth	
Process control—quality control for quantitative tests	Sixth	

Process control—quality control for qualitative	Seventh	
and semi-quantitative procedures		
Assessment—audits	Eighth	
Assessment—external quality assessment	Ninth	
Assessment—norms and accreditation	Tenth	
Personnel	Eleventh	
Medical Waste product management	Twelfth	
Electrical risk in lab	Thirteenth	
Fire management in lab.	Fourteenth	

Questions Example Design (theoretical and practical exam):

All of the activities provided in the workload section are considered when awarding you a grade for this course. In order to pass this course, you will need to earn a 60% or higher on the final exam. Your score on the exam will be calculated as soon as you complete it. If you do not pass the exam on your first try, you may take it again in the second trial.

- Type of the exam (composition and multiple choice)
- Exam's duration (for example one hour)
- The number of the questions: at least four questions. The marks distributed evenly throughout.

The answer should contain preface, main contents and conclusion.

Example

Q1/ Do as required answer only three of them

- 1-According to standard laboratory design the floor and wall of laboratory must be finished with some materials and properties mention them.
- 2-What are the main sources of cross-contamination in laboratory during working?
- 3-What mean by calibration, and when should be done?
- 4-What are the main characteristics of biosafety cabinet class III?
- 5-Write aspects of prevention electrical hazard in laboratory

Q2/Fill in blanks with suitable answer
1are the appropriate
extinguisher for flammable liquids, CO2 and gases
2- Hazardous healthcare waste include,
, and
3-Medical sample must be rejected in some circumstance such as:,
, and
4-Laboratory quality can be defined as, and
of reported test results.
5
6-There are a number of tools that are useful for laboratory process improvement which are -
and
Extra notes:
Exita flutes.
External Evaluator