



Kurdistan Region Government
Ministry of Higher Education
and Scientific Research
Paitaxt technical Institute - Private



Module (Course Syllabus) Catalogue

2023-2024

College/ Institute	Paitaxt Technical Institute	
Department	Pathological analysis	
Module Name	Epidemiology-theory	
Module Code	PAD012	
Degree	Master at General Biology	
Stage	First stage	
Semester	2	
Qualification		
Scientific Title		
(Credits)	2	
Module type	Assist.	
Weekly hours		
Weekly hours (Theory)	(2) Hrs. Class	(2)Total hrs. Workload
Weekly hours (Practical)	(0)hrs. Class	(0)Total hrs. Workload
Number of Weeks	12	
Lecturer (Theory)		
E-Mail & Mobile NO.		
Lecturer (Practical)	-----	
E-Mail & Mobile NO.	-----	
Websites		

Course Book

Course Description	Topics covered in this course include: basic principles of epidemiology; measures of disease frequency; epidemiologic study designs: experimental and observational; bias; confounding; outbreak investigations; Screening; causality; and ethical issues in epidemiologic research. In addition, students will develop skills to read, interpret and evaluate health information from published epidemiologic studies.			
Course objectives	• Define epidemiology, and describe its historical development and general applications. • Outline and describe fundamental principles and concepts in epidemiologic approaches, including: causation, the epidemiologic triad, and the stages in the natural history of disease. • Identifies the determinants of defects, disease and injury in human populations and provides a means of assessing the magnitude of public health problems and the success of interventions designed to control them. • To introduce the basic principles and methods of epidemiology and demonstrate their broad applicability to public health. • To provide fundamental skills needed to interpret and critically evaluate literature relevant to public health professionals. • To provide a structured method for organizing and analyzing raw data and to enable you to interpret and communicate the results to public health professionals and to the general public. • Describe biomedical ethics and the main ethical theories important in public health, some of the ethical dilemmas that public health workers may face, and principles and safeguards used to address these. • Provide examples of some of the concepts learned drawing from your own experience, and explain how they are or could be relevant.			
Student's obligation	It is requisite that all the students listen and write notes and their obligations throughout the academic year and the attendance and completion of all tests, exams.			
Required Learning Materials	Lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters and data collection according to lectures.			
Evaluation	Task	Weight (Marks)	Due Wee	Relevant Learning Outcome
	Homework			
	Class Activity			

	theory	20		
	Lab.	30		
	Midterm Exam	50%		
	Final Exam	50%		
	Total	100%		
Specific learning outcome:	1. Explain the history and philosophy of public health as well as its core values, concepts, and functions across the globe and in society. 2. Identify the methods, and tools of public health data collection, use, and analysis and why evidence-based approaches are an essential part of public health practice. 3. Apply the principles of project implementation, including planning, assessment, and evaluation in organizational and community initiatives. 4. Relate the underlying science of human health and disease to opportunities for promoting and protecting health across the life course. 5. Identify the basic processes, approaches, and interventions that identify and address the major health-related needs and concerns of populations.			
Course References:	1. Basic of epidemiology, World Health Organization, 1211Geneva 27, Switzerland. Author: R. Beaglehole Ruth Bonita, R. Beaglehole, Tord Kjellström 2. Biostatistics and Epidemiology, Sylvia Wassertheil-Smoller Department of Epidemiology and Population Health Division of Epidemiology Albert Einstein College of Medicine Bronx, NY 10461-1602USA 3. An Introduction to Epidemiology for Health Professionals Jørn Olsen·Kaare Christensen·Jeff Murray·Anders Ekbom School of Public Health University of California, Los Angeles 4. Modern Epidemiology, Book by Kenneth Rothman Kenneth Rothman, Sander Greenland 5. Epidemiology, Book by Leon Gordis			

Course topics (Theory)	Week
Epidemiology with definition.	1 st week
Aims of epidemiology	2 nd week
Epidemiological triad	3 rd week
Infectious disease epidemiology	4 th week
Communicable disease	5 th week
Nosocomial infection	6 th week
Mode Of Transmission	7 th week
Risk Factors For Nosocomial Infections	8 th week
Vital statistics in epidemiology	9 th week
The basic tools of measurement in epidemiology	10 th week
The various categories of rates	11 th week
Measurement of mortality and morbidity rates	12 th week
Neonate and post neonatal mortality	13 th week
Under five mortality rate	14 th week

Questions Example Design

Different question for examples:- Q/ calculate the?

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

Q/ true and false