

Course Description Form

1. Course Name:					
Public Health					
2. Course Code:					
448 CIPu					
3. Semester / Year:					
First semester/ Fourth					
4. Description Preparation Date:					
20/2/2024					
5. Available Attendance Forms:					
Semester system					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 hours/ 2 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Assistant Professor. Fadya Yaqoob Kadhim Email: fadia.jassem@copharm.uobaghdad.edu.iq Name: Assistant Professor. Ali Azeez Ali Email: ali.baraak@copharm.uobaghdad.edu.iq Name: Lecturer Dr. Shaymaa Abdulzahra Abbas Email: shaymaa.abbas@copharm.uobaghdad.edu.iq					
8. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> • Defining the science of public health, its goals and fields in society, health levels, as well as infectious diseases, their causes, methods of preventing them, and the relationship between nutrition and immunity. • Providing students with theoretical knowledge and skills, as students learn to apply the basic theories of biostatistics in health sciences, epidemiology, and public health. it also includes a focus on important analytical processes, for example, measures of central tendency, measures of dispersion, and other various statistical methods for analyzing and describing data. • Improving students' ability to self-learn, use the Internet, and access accurate scientific information. • Preparing students to be an efficient source with a solid scientific basis for community guidance. 			
9. Teaching and Learning Strategies					
Strategy		Lectures Discussions Simple quizzes Reports			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	1	<p>*Explain the history and philosophy of public health as well as its core values, concepts, and functions around the world and in society.</p> <p>*Identify determinants of health. How inequalities in neighborhood conditions, education, income, wealth, and sociopolitical climate affect health outcomes and health disparities</p>	Introduction to public health	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	<p>*To highlight landmarks in the development of the pharmacy profession</p> <p>*To appreciate timelines in the development of drugs and identify landmarks in drug discovery</p>	Historic background	Lectures, discussions, and reports	Theoretical exam and classroom activities
2	1	<p>*Define epidemiology</p> <p>*Describe basic terms and concepts of epidemiology</p> <p>* Identify types of data sources</p>	Epidemic science	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	<p>*Discuss concepts and terminology involving medication safety</p> <p>*Describe types of the medication errors</p> <p>*Address the link between medication errors and adverse drug Events</p> <p>*Give practical examples of medication errors and the possible solutions</p>	Medication safety and medication errors	Lectures, discussions, and reports	Theoretical exam and classroom activities
3	1	<p>*Identify basic methods for collecting and interpreting data</p> <p>*Describe the public health problem in terms of time, place, and person</p>	Epidemics science	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	<p>*Introduction about COVID 19 viruse and how spread, misconception and myth combine it, and to control the disease and treatments.</p>	Infectious disease	Lectures, discussions, and reports	Theoretical exam and classroom activities
4	1	<p>*Population growth analysis</p> <p>*Identify the basic concepts used in studying population</p>	Demography	Lectures, discussions, and reports	Theoretical exam and classroom activities

	2	<ul style="list-style-type: none"> *Explore some tools used to identify inappropriate prescribing or ADEs *Introduce deprescribing and medication reconciliation *Give practical case studies and address the main issues with the possible interventions 	Potentially inappropriate prescribing, and deprescribing	Lectures, discussions, and reports	Theoretical exam and classroom activities
5	1	<ul style="list-style-type: none"> *Distinguish between the population patterns of industrialized and non-industrialized countries. *Analysis of factors affecting population composition. *Examine the consequences of population aging 	Demography	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	<ul style="list-style-type: none"> *Transmission of viruses from livestock to human *Pathogenesis of disease *Risk factors *Signs and Symptoms of infected patient and how can prevent spreading the disease 	Infectious disease	Lectures, discussions, and reports	Theoretical exam and classroom activities
6	1	*Define the concepts of demographics and population dynamics and identify factors	Disease recurrence measures	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	<ul style="list-style-type: none"> *Define the community pharmacy setting * Understand the role of community pharmacists and their challenges. * Highlight the process of opening a community pharmacy. 	Community Pharmacy Management	Lectures, discussions, and reports	Theoretical exam and classroom activities
7	1	*Describe and calculate metrics that characterize population dynamics, including birth and death rates, fertility rates, sex ratios, and dependency ratios that affect them	Disease recurrence measures	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	*To appreciate factors that increase risk of a patient's inability to follow drug therapy and recommendations made by health professionals	Skills that necessary for pharmacists ' promoting adherence.	Lectures, discussions, and reports	Theoretical exam and classroom activities

		*To develop skills necessary for pharmacists' actions in promoting adherence.			
8	1	*Explain the relationship between immunology and immunization *Compare the main modes of transmission for infectious diseases of public health importance *Apply principles of public health surveillance and epidemiology in relation to the investigation of infectious disease outbreaks	Infectious diseases	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	* Describing the factors which influence rational use of medicine in health facilities. * Explaining the scope of irrational use of medicine. * Give examples of irrational use of drugs.	Rational use of medicines	Lectures, discussions, and reports	Theoretical exam and classroom activities
9	1	*Explaining the legislative frameworks for preventing and controlling infectious diseases in Iraq *Analysis of human and environmental factors that contribute to the emergence of new infectious diseases	Infectious diseases	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	*Medications appropriate to their clinical needs, in doses that meet their own individual requirements , *Medications for an adequate period of time, and the lowest cost to them and their community.	Skill of pharmacist to use appropriate dose for each individual case	Lectures, discussions, and reports	Theoretical exam and classroom activities
10	1	*Describe the public health burden caused by non-communicable diseases. *Explain the disproportionate burden of these diseases in low- and middle-income countries.	Non-communicable diseases	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	*Review current travel advice and immunizations based on travel locations *Recognize possible infections in returning travelers	Travel medicines	Lectures, discussions, and reports	Theoretical exam and classroom activities

		*Better identify the need for referrals to travel medicine experts			
11	1	*Identify behavioral risk factors for non-communicable diseases *Understand the role of tobacco use and harmful use of alcohol as risk factors for non-communicable diseases	Non-communicable diseases	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	*Describe and demonstrate the use of “best evidence” in pharmacy practice. *Describe and demonstrate the use of pharmaco-economic analysis in pharmacy practice	Evidence based medicine	Lectures, discussions, and reports	Theoretical exam and classroom activities
12	1	*Learn about epidemics that occurred during the last century *Ability to discuss epidemiological issues using basic terminology *Understanding the factors involved in the persistence of the disease *Be keen to learn more about viruses and their treatment/prevention *Appreciate that events around the world affect them [students]	Some important epidemics	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	*Understand the different definition of polypharmacy *Identify types of polypharmacy and highlight the consequences of it.	Polypharmacy	Lectures, discussions, and reports	Theoretical exam and classroom activities
13	1	*Define the following terms: Tolerance, abuse/misuse, psychological and physical dependence *Describe the patterns of drug misuse and discuss why some people seek to misuse drugs *Describe the factors which affect the desired effects (the ‘high’) and the addictive potential associated with commonly misused drugs	Drug misuse	Lectures, discussions, and reports	Theoretical exam and classroom activities

		<p>*Describe the differences between the main classes of drugs misused</p> <p>*Describe how drugs liable to misuse are legally classified</p>			
	2	<p>*To appreciate aspects of research studies To identify processes involved in planning of a research study</p> <p>*To develop skills required for oral communication and poster preparation during dissemination of a project.</p>	Principles of the research study	Lectures, discussions, and reports	Theoretical exam and classroom activities
14	1	<p>*Understand how vaccines work and their types</p> <p>*Describe how cooperation between public and private institutions can be increased to increase vaccination rates</p> <p>*Increase awareness of vaccine-preventable diseases and/or vaccination rates</p> <p>*Describe how local advocacy efforts to promote vaccination can be nurtured and grown to include and benefit from activities at the state, national, and international levels</p>	National immunization plan in Iraq	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	<p>* Understand the term of PCP and its relation to hospitalized patient, clinical pharmacist.</p> <p>*Identify the role of Clinical pharmacist in developing the care plan.</p> <p>*Give practical cases and create an care plan for each case.</p>	Introduction to pharmaceutical care plan	Lectures, discussions, and reports	Theoretical exam and classroom activities
15	1	<ul style="list-style-type: none"> Introduce the principles of antimicrobial resistance (AMR), AMR surveillance, and AMR stewardship. 	<i>Antimicrobial Resistance in Iraq</i>	Lectures, discussions, and reports	Theoretical exam and classroom activities
	2	<ul style="list-style-type: none"> Summarize the Antimicrobial Situation Analysis in Iraq which was conducted in collaboration between the WHO and 	<i>Antimicrobial Resistance in Iraq-Part 2</i>	Lectures, discussions	Theoretical exam and classroom activities

		<p>Iraqi Ministry of Health (Sept 2023).</p> <ul style="list-style-type: none"> Explore the literature about the AMR studies in Iraq. 			
11. Course Evaluation					
Midterm exam :25% , Assignments, quizzes: 5% , Final exam :70%.					
12. Learning and Teaching Resources					
Required textbooks (curricular books any)	<p>1- Adetokunbo O. Lucas, Herbert M. Gilles. Short textbook of public health medicine for the tropics. Latest edition.</p> <p>2-Roger Detels, Martin Gulliford, Quarraisha Abdool Karim, et al. Oxford Textbook of Global Public Health. Latest edition.</p> <p>3-Theodore H. Tulchinsky, Elena A. Varavikova, The New Public Health Latest edition.</p> <p>4-Aliso Blenkinsopp, Rhona Panton, Claire Anderson. Health promotion for pharmacist. Latest edition.</p>				
Main references (sources)	<p>Adetokunbo O. Lucas, Herbert M. Gilles. Short textbook of public health medicine for the tropics. Latest edition.</p>				
Recommended books and references (scientific journals, reports...)	<p>1-Roger Detels, Martin Gulliford, Quarraisha Abdool Karim, et al. Oxford Textbook of Global Public Health. Latest edition.</p> <p>2-Theodore H. Tulchinsky, Elena A. Varavikova, The New Public Health Latest edition.</p> <p>3-Aliso Blenkinsopp, Rhona Panton, Claire Anderson. Health promotion for pharmacist. Latest edition</p>				
Electronic References, Websites	Review articles				