

International School of Medicine / Medicine (English)

2023 - 2024 Academic Year

PUBLIC HEALTH

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PUBLIC HEALTH	ISM3012657	Yearly	37+0	0	2
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Committee Course				
Course Coordinator					
Name of Lecturer(s)	Prof.Dr. Osman Erol HAYRAN, Assist.Prof. Ömer ATAÇ, Assist.Prof. HÜSEYİN KÜÇÜKALİ, Assist.Prof. Ayşe Nur BALCI YAPALAK, Assist.Prof. Ayşe Seval PALTEKİ, Assoc.Prof. Perihan TORUN, Lect.Dr. Zeynep Meva ALTAŞ				
Assistant(s)	Dr. Ayşe Zülal Tokaç Farmaz				
Aim	To explain the relationship between health and disease with social, environmental, economic and cultural variables; to assess community health to provide information on the epidemiological and demographic methods used; preventive medicine and promoting health service principles teach; explain the meaning and methods of health management; giving information about maternal and child health, community nutrition, vulnerable groups, occupational health and environmental health.				
Course Content	This course contains; Public Health -Cancer Epidemiology ,Public Health -Quality of Life,Public Health -Genetic Epidemiology,Public Health -Vector-borne Diseases,Epidemiology of Infectious Diseases and Outbreaks ,Control of Infectious Diseases,Immunization,Travel and Health ,Waterborne and Foodborne Diseases,Community Nutrition,Nutritional Epidemiology,Epidemiology of Type 2 Diabetes,School Health,Epidemiology of Noncommunicable Diseases ,Air Pollution and Effects on Health ,Airborne Diseases ,Climate Change and Effects on Health,Epidemiology of Neurologic and Psychiatric Problems ,Community Mental Health ,Violence as a Health Problem ,Environmental Health ,Health of Vulnerable Groups ,Health of the Elderly,Occupational Health and Safety,Occupational Diseases and Accidents,Accidents and Injuries.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Learns the extent of the problem of diseases transmitted by vectors			10, 16, 9	A	
Lists the important diseases carried by vectors			10, 16, 9	A	
Explains the etiology, epidemiology, diagnosis, treatment and prevention methods of malaria.			10, 16, 9	A	
Defines the concept of health-related quality of life			10, 16, 9	A	
Lists the measurement methods of quality of life and healthy life quality			10, 16, 9	A	
Explains the definition of genetic epidemiology and genetic structure-environment interaction models			10, 16, 9	A	
Lists research methods used in genetic epidemiology			10, 16, 9	A	
Makes the definition of cancer epidemiology			10, 16, 9	A	
Lists the frequency and distribution characteristics of cancer types			10, 16, 9	A	
Explains cancer morbidity and mortality criteria			10, 16, 9	A	
Defines the concepts of causation and risk factor in cancer			10, 16, 9	A	
Explains the concepts of cancer prevention and palliative care			10, 16, 9	A	
Explain the methods of evaluating the nutritional status of the population.			10, 16, 9	A	
Lists the measures can be taken for important nutritional problems.			10, 16, 9	A	
Explains the control of food safety.			10, 16, 9	A	
Explains the important nutritional problems in Turkey and in the world.			10, 16, 9	A	
Lists the measures to be taken to prevent nutritional problems.			10, 16, 9	A	
Lists the causes and preventative measures of type 2 diabetes.			10, 16, 9	A	
Learns the prevalence of type 2 diabetes in children, adolescents and adults			10, 16, 9	A	
Defines the concept of school health and explains the school-health relationship.			10, 16, 9	A	
Explains school health activities.			10, 16, 9	A	
Explain the concept of non-communicable disease and explains the risk factors.			10, 16, 9	A	
Explain the control methods of non-communicable diseases.			10, 16, 9	A	
Defines air pollution, lists the main air pollutants and their effects.			10, 16, 9	A	
Explains the air quality index and lists the precautions to be taken.			10, 16, 9	A	
List the important airborne diseases and the measures to be taken			10, 16, 9	A	
Defines global warming/climate change and explains its causes.			10, 16, 9	A	
Distinguishes the direct and indirect effects of climate change on health.			10, 16, 9	A	
Defines the concepts of endemic, epidemic and pandemic.			10, 16, 9	A	
Conducts an outbreak investigation.			10, 16, 9	A	
Knows transmission ways of communicable diseases that are important for public health.			10, 16, 9	A	
Explains the infection chain and protection methods from communicable diseases.			10, 16, 9	A	
Explains the measures to be taken during communicable disease outbreaks.			10, 16, 9	A	
Explains the importance of cold chain.			10, 16, 9	A	
Explains the immunization schedule in our country.			10, 16, 9	A	
Explains the importance of travel health.			10, 16, 9	A	
Lists frequent travel health problems and required travel vaccinations by country.			10, 16, 9	A	
Lists the important diseases transmitted by water and food and the measures to be taken.			10, 16, 9	A	
Lists the steps to be followed in taking water samples and the causes of food and water contamination.			10, 16, 9	A	
Explains the preventive measures required for reproductive health.			10, 16, 9	A	
Explains the frequencies of reproductive health problems in Turkey and world.			10, 16, 9	A	
Explains sexually transmitted diseases that are important for public health.			10, 16, 9	A	
Defines common problems during pregnancy and childbirth.			10, 16, 9	A	

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Lists the measures to be taken for healthy pregnancy, birth and safe motherhood.		10, 16, 9	A
Estimates maternal-child health level measurement methods.		10, 16, 9	A
Explains the relationship between types of violence and public health.		10, 16, 9	A
Explains the ways to prevent accidents.		10, 16, 9	A
Lists the health problems that may arise in situations such as earthquake, flood, war, etc. and lists the measures to be taken.		10, 16, 9	A
Makes the definition of accident and its types.		10, 16, 9	A
Explain the dimensions of work accidents and occupational diseases and their importance in terms of public health.		10, 16, 9	A
Explains the scope of occupational health and lists the preventive measures required for occupational health and safety in the workplace.		10, 16, 9	A
Explains the prevalence of important health problems of the geriatric age and the methods of prevention.		10, 16, 9	A
Lists the health risks faced by vulnerable groups and the required health services.		10, 16, 9	A
Explains the vulnerable groups in population.		10, 16, 9	A
Lists the types of research methods used in environmental epidemiology and defines the essential concepts.		10, 16, 9	A
Defines environmental epidemiology and its characteristics.		10, 16, 9	A
Explain the methods of protection from important health problems arising from the environment.		10, 16, 9	A
Explains the relationship between air, water and soil pollution and health.		10, 16, 9	A
Explain the presentation model of community mental health services in our country.		10, 16, 9	A
Explain the concept of Community Mental Health Service and the developmental stages of Mental Health Services.		10, 16, 9	A
Explains high risk groups and prevention methods considering mental and neurological problems.		10, 16, 9	A
Lists the mental and neurological disorders that are important for public health		10, 16, 9	A
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method		
Assessment Methods	A: Traditional Written Exam		
Lecture Schedule			
Sequence	Topics	Preliminary Preparation	
1	Public Health -Cancer Epidemiology	none	
2	Public Health -Quality of Life	none	
3	Public Health -Genetic Epidemiology	none	
4	Public Health -Vector-borne Diseases	none	
5	Epidemiology of Infectious Diseases and Outbreaks	none	
6	Control of Infectious Diseases	none	
7	Immunization	none	
8	Travel and Health	none	
9	Waterborne and Foodborne Diseases	none	
10	Community Nutrition	none	
11	Nutritional Epidemiology	none	
12	Epidemiology of Type 2 Diabetes	none	
13	School Health	none	
14	Epidemiology of Noncommunicable Diseases	none	
15	Air Pollution and Effects on Health	none	
16	Airborne Diseases	none	
17	Climate Change and Effects on Health	none	
18	Epidemiology of Neurologic and Psychiatric Problems	none	
19	Community Mental Health	none	
20	Violence as a Health Problem	none	
21	Environmental Health	none	
22	Health of Vulnerable Groups	none	
23	Health of the Elderly	none	
24	Occupational Health and Safety	none	
25	Occupational Diseases and Accidents	none	
26	Accidents and Injuries	none	
Evaluation Methods		Weight(%)	
Midterm Exam		40	
General Exam		60	

Resources	
1- "Oxford Textbook of Global Public Health 6th Edition" Detels,Gulliford, Abdool Karim, Tan, Oxford University Press, 2015.	
2-"Applied Demography and Public Health" Nazrul Hoque, Mary A. McGehee, Benjamin S. Bradshaw (Eds.), Springer, 2013.	
3-"Epidemiology: Principles and Practical Guidelines" Jan Van den Broeck, Jonathan R. Brestoff, Eds., 2013, Springer.	
4-"Epidemiology and Demography in Public Health" Japhet Killewo (Ed. In Chief), H. Kristian Heggenhougen, Stella R. Quah (Eds.), 2010, Elsevier.	
5-"Modern Methods for Epidemiology" Yu-Kang Tu, Darren C. Greenwood (Eds.), Springer, 2012.Lecture Notes	