

STUDY GUIDE

<<Community Medicine>>

<<1210411>>



Community Medicine

Course coordination

Female section <<Dr Hanaa Bayomy (Hanaa.Sayed@nbu.edu.sa)>>

Male section <<Dr. Basem Salama (basem.salama@nbu.edu.sa)>>

Course Identification

1. Credit hours	<< 5 >>
2. Level/year at which this course is offered	<< 4 th year >>
3. Pre-requisites for this course	<<Pass 3 rd year >>

Course committee members

1. Dr. Basem Salama: Assistant Professor of Community Medicine
2. Dr. Muhammed Mossa: Assistant Professor of Community Medicine
3. Dr. Hanaa Bayomy: Assistant Professor of Community Medicine

Actual Learning Hours (Copy and paste the table from courses specification)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	27
2	Tutorial	30
3	Case scenario	18
4	PBL	8
5	Seminars	6
	Total	89
Other Learning Hours*		
1	Study	100
2	Assignments	
3	Library	20
4	Projects/Research Essays/Theses	
5	Others (Tutorial-Presentations- PBL-Case Scenario)	80
	Total	200

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

Course Objectives (Copy and paste the table from courses specification)

1. Course Description

This five week's course during the fourth medical year is designed to deliver the learning objectives. The course will contain topics from all disciplines of community medicine namely, epidemiology, biostatistics, environmental and health administration, disease prevention and health promotion.

2. Course Main Objective

On completion of this course the students should be able to :

1. Know community medicine concepts and explain their meaning and relevance to medical practice.
2. List and explain main epidemiological concepts in the field of public health and clinical medicine and apply related statistical methods in their study.
3. Define and explain major concepts of health promotion and implement some of their methods.
4. Identify and explain different preventive services at community and clinical levels and show positive attitude to their application.
5. To develop an understanding of the basic principles of the infectious process, susceptibility and resistance, and prevention and control measures in general and of some selected communicable diseases
6. Identify and prioritize community health problems effectively and define their underlying social, behavioral, political, economic and spiritual risk factors
7. Define environmental health and list their related health problems and outline various measures to manage them.

Course Learning Outcomes (Copy and paste the table from courses specification)

CLOs		Aligned-PLOs
1	Knowledge:	
1.1	Describe the management cycle including planning, implementation, and evaluation.	K3
1.2	Define, calculate, and interpret vital rates and compare between populations through the use of adjusted / standardized rates	K2
1.3	To explain the three interacting ecological factors: Agent, Host, and Environment affecting the occurrence of disease	K2
1.4	Apply the essential principles of infection prevention and control in health care settings	K4
2	Skills:	
2.1	Calculate the vital rates, validity and predictive values of screening test	S5

CLOs		Aligned-PLOs
3	Competence:	
3.1	Communicate properly with colleagues and facilitators	C1
3.2	Operate self-learning from updated medical information from different approved sources in the web.	C2
3.3	Interpret the results of clinical, laboratory, and radiological findings for proper problem solving and decision making	C3

Course Content (Copy and paste the table from courses specification)

No	List of Topics (Lectures)	Contact Hours
1.	Introduction	1
2.	Epidemiology introduction & spread of infectious diseases	1
3.	Epidemiological triad	1
4.	Epidemiological cycle: reservoir & mode of transmission	1
5.	susceptibility & immunity (1): general defense mechanism	1
6.	susceptibility & immunity (2): specific acquired immunity	1
7.	Prevention & Control of infectious diseases	2
8.	Vital rate	2
9.	Investigation of outbreak	2
10.	Epidemic curve	1
11.	Administration	2
12.	Environmental health	2
13.	Demography	2
14.	Screening program	2
15.	Nutrition and health	2
16.	Geriatric health	1
17.	Adolescent health	1
18.	PHC	1
19.	Surveillance, Eradication and elimination	1
Total		27

No	List of Topics (Tutorial)	Contact Hours
1.	Cholera	1
2.	Typhoid	1

3.	Polio	1
4.	Brucellosis	1
5.	HAV	1
6.	HBV & HCV	1
7.	STDs	1
8.	AIDS	1
9.	T.B	1
10.	Meningitis	1
11.	IHD	1
12.	HTN	1
13.	Cancers	1
14.	DM	1
15.	Measles	1
16.	Mumps	1
17.	Rubella	1
18.	Varicella	1
19.	Strept. (RHD)	1
20.	Diphtheria	1
21.	pertussis	1
22.	Tetanus	1
23.	Rabies	1
24.	Anthrax	1
25.	Plague	1
26.	Malaria	1
27.	Filaria	1
28.	Yellow fever	1
29.	Dengue	1
30.	Obesity	1
Total		30

No	List of Topics case scenario (Practical)	Contact Hours
1.	Investigation of outbreak	1
2.	Screening	2
3.	Vital rates	2
4.	Epidemic curve	1
5.	Nutrition	2

6	Demography	2
Total		10

No	List of Topics (PBL)	Contact Hours
1.	Air born disease	2
2.	Food and water born disease	2
3.	Blood born disease	2
4.	Non communicable disease	2
Total		8

No	List of Topics (seminars)	Contact Hours
1.	Food poisoning (botulism,	1
2.	Hemorrhagic fevers	1
3.	Zoonotic disease (avian and swine flu)	1
4.	Emerging and reemerging diseases	1
5.	Addiction	1
6.	SARS	1
Total		6

Teaching strategies and Assessment Methods for Students (Copy and paste the table from courses specification)

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding		
1.1	Explain the three interacting ecological factors: Agent, Host, and Environment affecting the occurrence of disease	Direct instruction (Lecture) Interactive instruction (tutorial)	written exam Continuous assessment
1.2	Define, calculate, and interpret vital rates and compare between populations through the use of adjusted / standardized rates	Direct instruction (Lecture) Interactive instruction (tutorial)	written exam Continuous assessment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.3	Apply the essential principles of infection prevention and control and Describe national health care systems in Saudi Arabia.	Direct instruction (Lecture) Interactive instruction (tutorial)	written exam Continuous assessment
2.0	Skills		
2.1	Interpret the results of epidemiological cases for proper problem solving and decision making	Interactive instruction (tutorial, seminars) PBL,	PBL checklist Seminar checklist
2.2	Calculate the vital rates	Indirect instruction (Case study)	OSCE
2.3	Communicate effectively with colleagues and instructors	Interactive instruction (tutorial, seminars) PBL,	PBL checklist Seminar checklist
3.0	Competence		
3.1	Communicate ethically with colleagues and facilitators	Interactive instruction (Tutorial, seminars) PBL,	PBL checklist Seminar checklist
3.2	Operate self-learning from updated medical information from different approved sources in the web.	Interactive instruction (tutorial, seminars) PBL,	PBL checklist Seminar checklist
3.3	Demonstrate the capacity for self-reflection and personal development	Interactive instruction (Tutorial, seminars) PBL,	PBL checklist Seminar checklist

Assessment Tasks for Students (Copy and paste the table from courses specification)

#	Assessment task*	Week Due	Percentage of Total Assessment Score
2	Quiz	3 th	20%
3	Final exam	5 th	50 %

#	Assessment task*	Week Due	Percentage of Total Assessment Score
4	Practical exam	5 th	20%
5	Continuous assessment	All weeks	10%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

Course blueprint (% of total summative marks in blue print is to be given in the range)

Topics	Teaching strategies	Assessment methods	Knowledge			Skill			Vlues			% of total contact hours	% of total summative marks
			K1	K2	K3	S1	S2	S3	V1	V2	V3		
Epidemiology introduction & spread of infectious diseases	lecture	written exam	√									1.3	1-3
Epidemiological triad	lecture	written exam	√									1.3	1-3
Epidemiological cycle: reservoir & mode of transmission	lecture	written exam	√									1.3	1-3
susceptibility & immunity: general defense mechanism	lecture	written exam	√									1.3	1-3
susceptibility & immunity: specific acquired immunity	lecture	written exam	√									1.3	1-3
Prevention & Control of infectious diseases	lecture	written exam	√									2.6	2-4
Vital rate	lecture	written exam	√	√								2.6	2-4
Investigation of outbreak	lecture	written exam	√									2.6	2-4
Epidemic curve	lecture	written exam	√									1.3	1-3
Administration	lecture	written exam	√									2.6	2-4
Environmental health	lecture	written exam	√									2.6	2-4
Demography	lecture	written exam	√	√								2.6	2-4
Screening program	lecture	written exam	√	√								2.6	2-4
Nutrition and health	lecture	written	√									2.6	2-4

Topics	Teaching strategies	Assessment methods	Knowledge			Skill			Vlues			% of total contact hours	% of total summative marks
			K1	K2	K3	S1	S2	S3	V1	V2	V3		
		exam											
Geriatric health	lecture	written exam	√									1.3	1-3
Adolescent health	lecture	written exam	√									1.3	1-3
Surveillance, Eradication and elimination	lecture	written exam	√									1.3	1-3
Cholera	Tutorial	written exam	√									1.3	1-3
Typhoid	Tutorial	written exam	√									1.3	1-3
Polio	Tutorial	written exam	√									1.3	1-3
Brucellosis	Tutorial	written exam	√									1.3	1-3
HAV	Tutorial	written exam	√									1.3	1-3
HBV & HCV	Tutorial	written exam	√									1.3	1-3
STDs	Tutorial	written exam	√									1.3	1-3
AIDS	Tutorial	written exam	√									1.3	1-3
T.B	Tutorial	written exam	√									1.3	1-3
Meningitis	Tutorial	written exam	√									1.3	1-3
IHD	Tutorial	written exam	√									1.3	1-3
HTN	Tutorial	written exam	√									1.3	1-3
Cancers	Tutorial	written exam	√									1.3	1-3
DM	Tutorial	written exam	√									1.3	1-3
Measles	Tutorial	written exam	√									1.3	1-3
Mumps	Tutorial	written exam	√									1.3	1-3

Topics	Teaching strategies	Assessment methods	Knowledge			Skill			Vlues			% of total contact hours	% of total summative marks
			K1	K2	K3	S1	S2	S3	V1	V2	V3		
Rubella	Tutorial	written exam	√									1.3	1-3
Varicella	Tutorial	written exam	√									1.3	1-3
Strept. (RHD)	Tutorial	written exam	√									1.3	1-3
Diphtheria	Tutorial	written exam	√									1.3	1-3
pertussis	Tutorial	written exam	√									1.3	1-3
Tetanus	Tutorial	written exam	√									1.3	1-3
Rabies	Tutorial	written exam	√									1.3	1-3
Anthrax	Tutorial	written exam	√									1.3	1-3
Plague	Tutorial	written exam	√										1-3
Malaria	Tutorial	written exam	√									1.3	1-3
Filaria	Tutorial	written exam	√									1.3	1-3
Yellow fever	Tutorial	written exam	√									1.3	0-2
Dengue	Tutorial	written exam	√									1.3	1-3
Obesity	Tutorial	written exam	√									1.3	1-3
Investigation of outbreak	Practical	OSPE				√						1.3	1-3
Screening	Practical	OSPE				√						1.3	1-3
Vital rates	Practical	OSPE				√						1.3	1-3
Epidemic curve	Practical	OSPE				√						0.6	0-2
Nutrition	Practical	OSPE				√						1.3	1-3
Demography	Practical	OSPE				√						1.3	1-3
Air born disease	PBL	Continuous assessment							√	√		2.6	1-3
Food and water born disease	PBL	Continuous assessment							√	√		2.6	1-3

Topics	Teaching strategies	Assessment methods	Knowledge			Skill			Vlues			% of total contact hours	% of total summative marks
			K1	K2	K3	S1	S2	S3	V1	V2	V3		
Blood born disease	PBL	Continuous assessment							√	√		2.6	1-3
Non communicable disease	PBL	Continuous assessment							√	√		2.6	1-3
Food poisoning (botulism,	Seminars	Continuous assessment							√	√		1.3	0-2
Hemorrhagic fevers	Seminars	Continuous assessment							√	√		1.3	0-2
Zoonotic disease (avian and swine flue)	Seminars	Continuous assessment							√	√		1.3	0-2
Emerging and reemerging diseases	Seminars	Continuous assessment							√	√		1.3	0-2
Addiction	Seminars	Continuous assessment							√	√		1.3	0-2
SARS	Seminars	Continuous assessment							√	√		1.3	0-2

Learning Resources (Copy and paste the table from courses specification)

Required Textbooks	PARK K. PREVENTIVE AND SOCIAL MEDICINE. 25th EDITION, BHANOT, 2019.
Essential References Materials	A. JEKEL J.F. EPIDEMIOLOGY, BIostatISTICS, AND PREVENTIVE MEDICINE. 4 th EDITION, SAUNDERS, 2013. B. HEYMANN D.L. CONTROL OF COMMUNICABLE DISEASE MANUAL. 20 th EDITION, APHA, 2014.
Electronic Materials	A. www.who.int/ar B. WWW.cdc.gov
Other Learning Materials	a) A guide for health promotion practice" 2 nd edition. (US Department of Health and b) Human Services. National Institutes of Health 2005). c) Health Promotion: Foundations for Practice" 2 nd edn. Naidoo, J. and Wills, J. (2000).

Related check lists

PBL ✓

Assignment

Clinical skills checklist

Presentation checklist ✓

Project checklist

Workshop checklist

(Checklist must be aligned with the learning outcomes)

PBL checklist

A. PBL: learning and cognitive skills:

S.No	Ability of the student to	Marks	Marks Obtained
1.	Attend to PBL session on time	0.5	
2.	Take active roles such as scribing/ becoming a leader	0.5	
3.	Identify New/difficult words in the case	1.0	
4.	Participate effectively during the session (Sharing appropriate ideas and information)	1.0	
5.	Interpret the case and the related findings	1.0	
6.	Generate learning issues	1.0	
	Total marks for Session 1	5.0	

B. PBL: interaction and participation to group function:

S.No	Ability of the student to	Marks	Marks Obtained
1.	Build discussion and maintain good group dynamics	1.0	
2.	Present his/her learning issue effectively	1.0	
3.	Prepare well with all the identified learning issues	1.0	
4.	Manage presentation time well	1.0	
5.	Communicate effectively and discuss collaboratively with other members	0.5	
6.	Ask and answer questions relevant to the topic	0.5	
	Total marks for Session 2	5.0	

Presentation checklist

S.No	Ability of the student to	Marks	Marks Obtained
1	Present her topic effectively	1.5	
2	Manage presentation time well	1.5	
3	Ask questions/answer questions reasonably well.	1	
4	Provide correct references	1	
	Total marks	5	

Course quality evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect assessment
Extent of achievement of course learning outcomes	Instructor Students	Direct assessment Indirect assessment
Quality of learning resources	Student	Indirect assessment

After the end of the course, please give your **FEEDBACK** through the following QR code:

