

Course Specification

(2025)

1. Basic Information

Course Title (according to the bylaw)	Epidemiology وبائيات			
Course Code (according to the bylaw)	MED 422			
Department/s participating in delivery of the course	Community, Environmental and Occupational Medicine Department- Faculty of Medicine- Benha University			
Number of credit hours/points of the course (according to the bylaw)	Theoretical	Practical	Other (specify)	Total
	1 (credit hour)	-	-	1 (credit hour)
Course Type	إجباري			
Academic level at which the course is taught	المستوى الرابع/الفصل الدراسي السابع والثامن			
Academic Program	Bachelor of Nursing Science (credit hours)			
Faculty/Institute	Nursing			
University/Academy	Benha			
Name of Course Coordinator	Dr/ Abeer Elsayed			
Course Specification Approval Date	2025/7/13			
Course Specification Approval (Attach the decision/minutes of the department /committee/council)	<u>مجلس قسم شهر 7 قسم صحة مجتمع</u>			

2. Course Overview (Brief summary of scientific content)

The course aims to provide the students with the knowledge necessary for identify the importance of epidemiology for the nursing profession and how to prevent and control infection. It includes the definition of general epidemiology, the principles, infectious diseases and its prevention, pandemic analysis, introduction to the health survey and control of acquired infection in hospitals.

3. Course Learning Outcomes CLOs

Matrix of course learning outcomes CLOs with program outcomes POs (NARS/ARS)

Program Outcomes (NARS/ARS) (according to the matrix in the program specs)		Course Learning Outcomes Upon completion of the course, the student will be able to:	
Code	Text	Code	Text
2.1.2	Provide holistic nursing care that addresses the needs of individuals, families and communities across the life span.	2.1.2.1	Assess the distribution and determinants of health and disease across diverse populations to inform holistic nursing interventions.
		2.1.2.2	Analyze epidemiological data to identify health trends and risk factors affecting individuals, families, and communities throughout different life stages.
		2.1.2.3	Integrate principles of population health into nursing assessments and care planning to promote wellness and prevent infectious diseases.
		2.1.2.4	Explain the transmission, clinical manifestations, and prevention of brucellosis with attention to occupational and rural community risks.
		2.1.2.5	Assess the psychosocial and economic impact of brucellosis on affected individuals and families, especially in agricultural settings.
		2.1.2.6	Integrate education, early detection, and culturally sensitive care for populations at risk across all age groups.
		2.1.2.7	Differentiate types of viral hepatitis in terms of transmission, progression, and implications for holistic care across the lifespan.
		2.1.2.8	Enumerate community-based prevention strategies such as vaccination, safe practices, and public education tailored to various age

Program Outcomes (NARS/ARS) (according to the matrix in the program specs)		Course Learning Outcomes Upon completion of the course, the student will be able to:	
Code	Text	Code	Text
			groups and cultural contexts.
		2.1.2.9	Identify common causes and complications of pediatric diarrhea, emphasizing vulnerable populations and developmental stages.
		2.1.2.10	Plan holistic care that includes hydration therapy, nutritional support, caregiver education, and emotional reassurance.
		2.1.2.11	Plan with families and community health workers to develop sustainable hygiene and sanitation practices that prevent recurrence and promote child health
2.2.6	Utilize information from variety of reliable sources for planning and improving health promotion and health education activities.	2.2.6.1	List evidence-based strategies for TB prevention and control from peer-reviewed journals and global health guidelines.
		2.2.6.2	Design culturally appropriate health promotion campaigns for TB awareness using insights from community health assessments and reliable public health sources.
		2.2.6.3	Analyze surveillance data from health ministries and international organizations to understand the burden of ARIs across age groups.
		2.2.6.4	Develop age-specific health education for acute respiratory infection prevention.
		2.2.6.5	Plan multidisciplinary health promotion activities that address nosocomial infection risks using data from quality improvement initiatives and peer-reviewed studies.
		2.2.6.6	Design targeted health education programs that address lifestyle modification.
		2.2.6.7	Incorporate culturally sensitive and age-appropriate information from reliable sources to support diabetes education across diverse populations.
		2.2.6.8	Assess the effectiveness of vaccination campaigns and eradication efforts through critical review of reports and scientific literature.
		2.2.6.9	Utilize outbreak investigation reports and surveillance data to inform planning of public awareness activities and preventive strategies.

4. Teaching and Learning Methods

- 1- Interactive lecture
2. Blended learning

Number of the Week	Scientific content of the course (Course Topics)	Total Weekly Hours	Expected number of the Learning Hours			
			Theoretical teaching (lectures/discussion groups/)	Training (Practical/Clinical/)	Self-learning (Tasks/ Assignments/ Projects/ ...)	Other (to be determined)
1	Introduction of epidemiology.	1hour	1hour	-	-	-
2	General epidemiology of infectious diseases	1hour	1hour	-	-	-
3	General epidemiology of infectious diseases	1hour	1hour	-	-	-
4	Prevention and control of infectious diseases	1hour	1hour	-	-	-
5	Epidemiological of selected diseases as-measles.	1hour	1hour	-	-	-
6	Tuberculosis.	1hour	1hour	-	-	-
7	Acute respiratory infection	1hour	1hour	-	-	-
8	Diarrhea in children	1hour	1hour	-	-	-
9	Viral hepatitis	1hour	1hour	-	-	-
10	Viral hepatitis	1hour	1hour	-	-	-
11	Brucellosis	1hour	1hour	-	-	-
12	Poliomyelitis	1hour	1hour	-	-	-
13	Nosocomial infection	1hour	1hour	-	-	-
14	Diabetes mellitus	1hour	1hour	-	-	-

5. Methods of students' assessment

No.	Assessment Methods *	Assessment Timing (Week Number)	Marks/ Scores	Percentage of total course Marks
1	Electronic midterm exam	7 th week	10	%20
2	Final electronic written exam	16 th week	40	%80

6. Learning Resources and Supportive Facilities *

Learning resources (books, scientific references, etc.) *	The main (essential) reference for the course (must be written in full according to the scientific documentation method)	Community, Environmental and Occupational Medicine Department,(2025):Electronic Handout (CD) of Community, Environmental and Occupational Medicine Department, Faculty of Medicine , Benha University
	Other References	Macera, C. (2023): Basics of epidemiology, Cengage. U.S.A

	Electronic Sources (Links must be added)	https://www.ecdc.europa.eu/en https://journals.lww.com/epidem
	Learning Platforms (Links must be added)	https://ebook1.bu.edu.eg http://www.elearning.edu.eg.com.
	Other (to be mentioned)	-
Supportive facilities & equipment for teaching and learning *	Devices/Instruments	Data show
	Supplies	Whiteboard
	Electronic Programs	Microsoft teams
	Skill Labs/ Simulators	-
	Virtual Labs	-
	Other (to be mentioned)	-

Name and Signature
Course Coordinator

Dr. Abeer EL Sayed

13/7/2025

Name and Signature
Program Coordinator

Dr. Habbouba Elbaky

13/7/2025