



Course Specification

— (Bachelor)

Course Title: **Public Health Epidemiology**

Course Code: **PHE26434**

Program: **Bachelor of Sciences in Public Health**

Department: **Public Health**

College: **Applied Medical Sciences**

Institution: **University of Bisha**

Version: **1**

Last Revision Date: **2-8-2023**





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A. General information about the course:

1. Course Identification

1. Credit hours:					
2 (2+0)					
2. Course type					
A.	<input type="checkbox"/> University	<input type="checkbox"/> College	<input checked="" type="checkbox"/> Department	<input type="checkbox"/> Track	<input type="checkbox"/> Others
B.	<input checked="" type="checkbox"/> Required		<input type="checkbox"/> Elective		
3. Level/year at which this course is offered: 8th level 4th year					
4. Course general Description:					
This course builds upon the foundational principles of epidemiology for health sciences by exploring deeper into the application of epidemiological concepts within the public health field.					
5. Pre-requirements for this course (if any):					
PHE26232					
6. Co-requirements for this course (if any):					
NA					
7. Course Main Objective(s):					
Students will explore advanced topics in epidemiology, with a specific focus on how epidemiological methods and tools can be effectively used to address population-level health concerns.					

2. Teaching mode

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	25	83.3%
2	E-learning	3	10%
3	Tutorial		
4	Interactive learning	2	6.7%
5	Practical		

3. Contact Hours

No	Activity	Contact Hours
1.	Lectures	25





2.	E-learning	3
3.	Practical	
4.	Interactive learning	2
5.	Seminars	
6.	Self-Learning	45
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Apply knowledge of the normal structure and function of the human body to the study of population-level health issues.	K1	Lecture-discussion	Written exam
1.2	Analyze the history and philosophy of public health, its core values, concepts, and functions across different societies and globally.	K3	Lecture-discussion	Written exam
1.3	Recognize and apply advanced concepts, methods, and tools for public health data collection, analysis, and the importance of evidence-based approaches.	K5	Lecture-discussion	Written exam
1.4	Analyze the complex interaction of socioeconomic, behavioral, biological, environmental, and other factors that impact human health and contribute to health disparities.	K7	Lecture-discussion	Written exam
2.0	Skills			
2.1	Utilize advanced biostatistical and epidemiological tools to generate high-quality evidence for the design and implementation of public health intervention programs.	S1	Lecture-discussion	Written Examination
2.2	Communicate effectively and efficiently using technical and professional writing, mass media, and oral presentations tailored to diverse	S3	Group Presentations and Case Studies	Presentation



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	audiences, with a focus on advanced epidemiological concepts			
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate a high level of responsibility for self-directed lifelong learning by identifying advanced learning needs and effectively utilizing information and communication technology for continuous professional development.	V2	Lecture-discussion Case study	Class Participation and Discussions

C. Course Content

No	List of Topics (Theory)	Contact Hours
1.	Advanced Epidemiological Study Designs	2
2.	Epidemiology of Emerging Infectious Diseases	2
3.	Advanced Statistical Methods in Public Health Epidemiology	3
4.	Chronic Disease Epidemiology and Surveillance	2
5.	Environmental and Occupational Epidemiology	2
6.	Social Epidemiology and Health Disparities	2
7.	Advanced Public Health Surveillance and Outbreak Investigation	2
8.	Epidemiological Research Ethics and Legal Issues	2
9.	Applied Epidemiological Research in Public Health	3
10.	Advanced Health Communication and Education Strategies	2
11.	Evaluation and Assessment of Public Health Programs	2
12.	Public Health Policy and Advocacy	3
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz 1	3 rd	5%
2.	E Learning activities	4, 6, 10 th	15%
3.	Mid-Term Examination	8 th	20%
4.	Project/ seminar/ discussion	11 th	10%
5.	Final Examination	End of semester	50%
Total			100%





E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Rothman, K. J., Greenland, S., & Lash, T. L. (2012). Modern Epidemiology. Lippincott Williams & Wilkins
Supportive References	Bonita, R., R. Beaglehole, and T. Kjellström. (2006). Basic Epidemiology 2 nd edition. Geneva: World Health Organization. ISBN 9789241547079 Koopman, J. S., & Lynch, J. W. (1999). Epidemiologic Methods: Studying the Occurrence of Illness. Oxford University Press Brownson, R. C., Petitti, D. B., & M. (2010). Applied Epidemiology: Theory to Practice. Oxford University Press
Electronic Materials	www.openepi.com www.cdc.gov
Other Learning Materials	Digital library, at university of Bisha

2. Required Facilities and equipment

Items	Resources
facilities	Middle size classroom
Technology equipment	Multimedia projector Smart board
Other equipment	Statistical software for advanced data analysis Online databases for epidemiological research

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students, Faculty, Quality committee	Direct / indirect - Using well-structured questionnaire
Effectiveness of student's assessment	Faculty members Peer Reviewer	Direct / indirect - Continuous reviewing and course portfolio
Quality of learning resources	Faculty members Curriculum committee	Direct / indirect - Annual review course report
The extent to which CLOs have been achieved	Course coordinator	Direct / indirect

G. Specification Approval

COUNCIL /COMMITTEE	PH DEPARTMENT BOARD
REFERENCE NO.	
DATE	

