هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-153

Course Specification
(Bachelor)

Course Title	**Fundamentals of Public Health Informatics**
Course Code:	**PHE26343**
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

وزارة التعليم - جامعة بيشة
Ministry Of Education - University Of Bisha
وكالة الجامعة للشؤون التعليمية

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours:					
2 (2+0)					
2. Course type					
A.	☐University	☐ College	☒ Department	☐Track	☐Others
B.	☒ Required		☐ Elective		
3. Level/year at which this course is offered: 6th level 3rd year					
4. Course general Description:					
Focuses on the principles and application of Health Informatics in Public Health as well as fundamental aspects of Geographic Information System.					
5. Pre-requirements for this course (if any)**:**					
NA					
6. Co-requirements for this course (if any)**:**					
NA					
7. Course Main Objective(s):					

- **Present the fundamental concepts of Public Health Informatics including its development, significance, infrastructure, standards, ethical principles, and evaluation;**
- **Discuss the data sources and tools;**
- **Present the application of Health Informatics in various fields of Public Health; and**
- **Equip students with basic skills in designing Geographic Information System.**

2. Teaching mode

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	26	86.6%
2	E-learning	2	6.7%
3	Tutorial		
4	Interactive learning	2	6.7%
5	Practical		

3. Contact Hours

No	Activity	Contact Hours
1.	Lectures	26
2.	E-learning	2
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	Explain the concept of Public Health Informatics.	K2	Lecture, discussion	Written exam,
1.2	Discuss the applications of Informatics in various fields of Public Health.	K2		
2.0	**Skills**			
2.1	Design a Geographic Information System.	S1	Group project presentation	Project output using Rubric
3.0	**Values, autonomy, and responsibility**			
3.1	Demonstrate teamwork and apply ethical standards in project development.	V1	Group project presentation	Project output using Rubric

C. Course Content

No	List of Topics (Theory)	Contact Hours
1	Introduction to Public Health Informatics	2
2	Public Health Informatics Infrastructure and Architecture	4
3	Public Health Data Source, Tools and Information Standards	4
4	Privacy, Confidentiality, Security and Ethics	2
5	Electronic Health Records	2
6	Evaluation for Public Health Informatics	2
7	Informatics in Disease Prevention and Epidemiology	4
8	Informatics in Environmental Public Health	2
9	Informatics in Public Health Laboratories	2
10	Information Systems for Vital Statistics, Risk Factors and Immunizations	2
11	Introduction to Geographic Information Systems	4
	Total	**30**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz #1	3rd	5%
2.	E-Learning activities 1, In class, In lab evaluation	4th	5%
3.	Midterm Examination	8th	25%
4.	Quiz #2	11th	5%
5.	E-Learning activities 2, In class, In lab evaluation	12th	10%
6.	Final Examination	15th	50%
	Total		**100%**

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Magnuson, J.A., and P.C. Fu, Jr. (Eds.). (2014) **Public Health Informatics and Information Systems**, 2nd Edition. Springer-Verlag London. ISBN: 978-1-4471-4236-2
Supportive References	
Electronic Materials	Chortle.ccsu.edu/java5/cs151java.html Google, Altavista, Medline.
Other Learning Materials	1. Saudi digital library

2. Required Facilities and equipment

Items	Resources
facilities	1. Middle size classroom well-equipped laboratory
Technology equipment	1. Multimedia projector • Smart board
Other equipment	• NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students, Faculty, Quality committee	Direct / indirect - Using well-structured questionnaire

Assessment Areas/Issues	Assessor	Assessment Methods
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	