



Course Specification

— (Bachelor)

Course Title: **Water supply and sanitation**

Course Code: **PHE26457**

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**





Table of Contents

A. General information about the course:	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	4
D. Students Assessment Activities	5
E. Learning Resources and Facilities	5
F. Assessment of Course Quality	6
G. Specification Approval	6





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 provides the students with public health issues concerning the water supply and sanitation. It mainly covers the water sources, treatment, and reuse, as well as the methods of water analysis and evaluation of water supply and sanitation projects.					
5. Pre-requirements for this course (if any):					
NA					
6. Co-requirements for this course (if any):					
NA					
7. Course Main Objective(s):					
To enable students to define the water quality standards and apply quality measures in evaluating water supply and sanitation projects.					

2. Teaching mode

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	22	73.3%
2	E-learning	2	6.7%
3	Tutorial		
4	Interactive learning	2	6.7%
5	Field visits	4	13.3%

3. Contact Hours

No	Activity	Contact Hours
1.	Lectures	22
2.	E-learning	2
3.	Field visits	4
4.	Interactive Learning	2





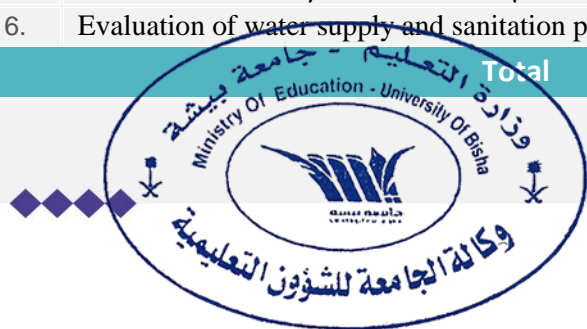
5.	Seminars	
6.	Self-Learning	45
Total		75

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	Demonstrate comprehensive knowledge of water quality parameters and related national and international standards	K4	Lecture, E-learning, TBL	Written exams, assignments, E-learning activities, In-class evaluation
1.2	Explain the sources of drinking water and methods of treatment	K6		
1.3	Discuss critically the methods of sewage water treatment and reuse	K7		
2.0	Skills			
2.1	Evaluate water supply and sanitation projects	S1	Lecture, Field visits	Written exams, assignments, Reports
2.2	Collect and analyze water samples	S4		
3.0	Values, autonomy, and responsibility			
3.1	Display a sense of commitment to professional regulations	V1	Field visits, TBL	In-field evaluation, In-class evaluation
	Participate in community-based programs to promote public health	V2		

C. Course Content

No	List of Topics (Theory)	Contact Hours
1.	Water infrastructure projects and drinking water sources and treatment	6
2.	Water quality parameters and related national and international standards	3
3.	Water-related diseases	6
4.	Sewage water treatment and reuse	3
5.	Collection and analysis of water samples	6
6.	Evaluation of water supply and sanitation projects	3
Total		30





D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Assignments	3 th	5%
2.	E-learning activities	4 th , 6 th , 9 th	15%
3.	In-class evaluation	All through	5%
4.	In-field evaluation	7 th , 8 th , 9 th	5%
5.	In-field visits reports	7 th , 8 th , 9 th	10%
6.	Mid-term exam.	5 th	10%
7.	Final exam- Theory	End of the semester	50%
	Total		100%

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Hussain A (2022). Water Supply and Sanitation. Dreamtech Press
Supportive References	Hammer MJ, Warren Viessman Jr, Perez EM, Chadik PD (2015). Water Supply and Pollution Control. Pearson India Education. American Public Health Association. Standard Methods for the Examination of Water and Wastewater (2012). Standard Methods for the Examination of Water and Wastewater
Electronic Materials	http://www.pubmed.com https://www.who.int/health-topics/health-promotion#tab=tab_1
Other Learning Materials	Saudi digital library

2. Required Facilities and equipment

Items	Resources
facilities	<ul style="list-style-type: none"> ○ Middle-sized classroom. ○ Well-equipped laboratory
Technology equipment	<ul style="list-style-type: none"> ○ Data show, smart board, Computers
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
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	
REFERENCE NO.	
DATE	

