

المركز الوطني للتقويم والاعتماد الاكاديمي National Center for Academic Accreditation and Evaluation

ATTACHMENT 5.

T6. COURSE SPECIFICATIONS (CS)



Course Specifications

Institution: University of Tabuk Date:				
College/Department : Ummlage University College / Biology Department				
A. Course Identification and General Information				
1. Course title and code: Pollution (BIO 471)				
2. Credit hours:3Credit Hours (2 theore	etical+2 Practical)			
3. Program(s) in which the course is of	fered. Biology			
(If general elective available in many pr	rograms indicate this rather than list programs)			
4. Name of faculty member responsible	e for the course:			
5. Level/year at which this course is of	fered: Level 6			
6. Pre-requisites for this course (if any)):Principlesof Ecology(BIO271)			
7. Co-requisites for this course (if any)	: None			
8. Location if not on main campus: N.	A.			
9. Mode of Instruction (mark all that ap	pply):			
a. Traditional classroom	What percentage? 75%			
b. Blended (traditional and online)	What percentage?			
c. e-learning	What percentage?			
d. Correspondence	What percentage?			
f. Other: Lab work	What percentage? 25%			
Comments:				



B Objectives

1. What is the main purpose for this course?

At the end of this course students learn the following:

- This course systematically introduces pollution issues to students.
- The course moves from the definition of pollution and how pollutants behave in environment.
- Basics of pollution, pollution and global change, solid waste, and pollution in the home.
- It also discusses persistent and bio-accumulative chemicals, and pesticides, and it places greater stress on global pollutants.
- The relationship between energy generation and use, and pollution is stressed.
- The importance of going beyond pollution control, to pollution prevention.
- Impacts on human and environmental health are emphasized

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

- Theory classes using current data bypower-point presentations
- Computer based programs have been utilized to support the lecture course material to demonstrate more of pollution and its effect
- Care is taken in the class for student.
- Field trips to the polluted sites, to learn impacts of industrial pollution on environment.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

1. Topics to be Covered				
List of Topics	No. of Weeks	Contact hours		
Environment-introductionand its components	1	3		
Environmental pollution-definition and its sources	1	3		
Naturalpollutionand man-made pollution	1	3		
Types of environmental pollution	1	3		
Waterpollution	1	3		
Soilpollution	1	3		
Air pollution	1	3		
Revision and Pre Final Exam				
Mid Term Vacation				
Noise pollution, Radioactive pollution	1	3		
Environmentalpollutionand human health	1	3		
Minimization of environmental pollution	1	3		

Course Specifications, Ramadan 1438H, June 2017.



Environmental Impact Assessment (EIA) -Concept, principles and	1	3
types of EIAs		
EnvironmentalLegislationsand Guidelines	1	3
Recommendation of InternationalConferences on pollution. Revision		3
Final Exam		

2. Course components (total contact hours and credits per semester):							
		Lecture	Tutorial	Laboratory/ Studio	Practical	Other:	Total
Contact	Planed	26			26		52
Hours	Actual	26			26		52
Credit	Planed	2			1		3
	Actual	2			1		3

3. Additional private study/learning hours expected for students per week.

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NQF Learning Domains And Course Learning Outcomes Knowledge Describe pollution and its interrelationships with living organisms	Course Teaching Strategies - Reproduce visual	Course Assessment Methods
And Course Learning Outcomes Knowledge Describe pollution and its interrelationships with living organisms	Strategies - Reproduce visual	Assessment Methods
Knowledge Describe pollution and its interrelationships with living organisms	- Reproduce visual	Methods
Knowledge Describe pollution and its interrelationships with living organisms	- Reproduce visual	A sharestions
Describe pollution and its interrelationships	- Reproduce visual	A als assactions
with fiving organisms.	and interactive methods to inculcate the concepts of pollution biology.	- Ask questions while teaching and interaction with students
Define and describe environment and its components, environmental pollution types, sources, effects and control measures.	- Tell students to learn more by increasing interest in the subject by giving local examples.	 Conduct quiz Group discussion Home assignments Periodical exams
Cognitive Skills		
Explain major ideas relating to environment and environmental pollution. Develop clear understanding about causes consequences and control of ecological	 Use electronic and print media Classroom teaching 	- Ask questions while teaching and interaction with students
	Define and describe environment and its components, environmental pollution types, sources, effects and control measures. Cognitive Skills Explain major ideas relating to environment and environmental pollution. Develop clear understanding about causes consequences and control of ecological pollution	Ine concepts of pollution biology.Define and describe environment and its components, environmental pollution types, sources, effects and control measures Tell students to learn more by increasing interest in the subject by giving local examples.Cognitive Skills- Use electronic and print media - Classroom teachingDevelop clear understanding about causes consequences and control of ecological- Use electronic and print media - Classroom teaching

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r	Education Evaluation Col	nmission		
	Explain the application of environmental	 Group discussions 	 Conduct quiz 	
	biology to solve the practical problems in	- Presentations	- Group discussion	
2.2	ecology and environment.	- Laboratory	- Home	
		techniques	assignments	
			- Periodical exams	
3.0	Interpersonal Skills & Responsibility			
	- Analyzemajor ideas relating to ecology and	- Show students to	- Conduct quiz	
	environment	read more beyond	- Interact with	
	- Illustrateclear understanding about	the classroom	students directly	
2.1	ecological pollution.	lecture		
5.1		- Keep the students		
		update with the		
		latest developments		
		in the subject.		
	- Justify the need and ways to apply	- Group discussion	- Involve students	
	environmental techniques to solve the	- Learning modern	in projects	
	problems of ecology in general.	lab techniques.		
3.2		- Illustrate students		
		to make correct		
		observations and		
		inferences.		
4.0	Communication, Information Technology, Numerical			
	- Demonstrate web based searching on the	- Group discussion	- Engage students	
	topics of modern ecology and environment.	and interactive	to express their	
		session	opinion on a	
4.1		- Apprise students to	particular topic.	
		enhance	- Conduct quiz	
		communication, IT		
		and numerical skills		
5.0	Psychomotor			
5.1	Not Applicable			

5. Schedule of Assessment Tasks for Students During the Semester					
	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment		
	Activities and Short Quizzes	Distributed	10%		
1		over 8			
		weeks			
2	Pre-Final Practical Exam	8	10%		
3	Pre-Final Theoretical Exam	8	25%		
4	Final-Practical Exam	15	15%		
5	Final Theory Exam	16	40%		



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

- An induction period at the beginning of the academic session
- An extensive Learning Resources Centre, incorporating a library and computer center.
- A Program Tutor to give academic advice.
- Personal tutors to provide pastoral and academic support.
- Office hours 8 hr/ week

E Learning Resources

1. List Required Textbooks

PierceJ.,Weiner,R.F.,andVesilind,P.A.(1998):EnvironmentalPollutionandControl (4thedition);ElsevierInc. ISBN:978-0-7506-9899-3

2. List Essential References Materials (Journals, Reports, etc.)

Journal of environmental biology

- Journal of Environmental Pollution

- Journal of Ecology

- Journal of Air water and Soil Pollution
- Journal of Environmental and Experimental biology

- <u>Ecology</u>, <u>Second Edition</u> by Michael L. Cain, William D. Bowman, and Sally D. Hacker

- Atmospheric Pollution by Jacobson, Mark Z.

- Understanding Environmental Pollution, by Hill, Marquita K.

3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.

-Saudi Digital Library

- <u>http://instructors.coursesmart.com</u>

4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.



F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Ecology and Environment Laboratory is required

2. Technology resources (AV, data show, Smart Board, software, etc.)

Projectors required in each lecture theatre and laboratory

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

Equipment for environmental monitoring and impact assessment required.

G Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- Course evaluation by student.
- Students- faculty meetings.
- 2. Other Strategies for Evaluation of Teaching by the Instructor or by the Department
- Peer consultation on teaching.
- Departmental council discussions.
- Discussions within the group of faculty teaching the course.

3. Processes for Improvement of Teaching

-Conducting workshops given by experts on the teaching and learning methodologies.

- Periodical departmental revisions of its methods of teaching.

- Monitoring of teaching activities by senior faculty members.

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

Providing samples of all kind of assessment in the departmental course portfolio of each course.
Assigning group of faculty members teaching the same course to grade same questions for various students.

- Faculty from other institutions invited to review the accuracy of the grading policy.

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

-The course material and learning outcomes are periodically reviewed and the changes to be taken are approved in the departmental and higher councils.

- The Head of Department and Faculty take the responsibility of implementing the proposed changes.



Name of Course Instructor:

Signature:

Program Coordinator:

Signature: _____

Date Specification Completed:

Date Received: _____