

Kingdom of Saudi Arabia

**The National Commission for Academic Accreditation &
Assessment**

**T5. COURSE REPORT
(CR)**

472CE-3

Environmental Engineering

A separate Course Report (CR) should be submitted for every course and for each section or campus location where the course is taught, even if the course is taught by the same person. Each CR is to be completed by the course instructor at the end of each course and given to the program coordinator

A combined, comprehensive CR should be prepared by the course coordinator and the separate location reports are to be attached.

Course Report

For guidance on the completion of this template refer to the NCAAA handbooks.

Institution	Najran University	Date of CR: 05/06/2017
College/Department:	College of Engineering / Civil Engineering	

A Course Identification and General Information

1. Course title and code: Environmental Engineering (472CE-3)						
2. Name of course instructor : Dr. Saleh Hamel AlSalem				Location : Main Campus		
3. Year and semester to which this report applies: 2016-2017 Year/2nd Semester						
4. Number of students starting the course?		<div>12</div>	Students completing the course?		<div>12</div>	
5. Course components (actual total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory/ Studio	Practical	Other:	Total
Contact Hours	30	15	30			75
Credit	2	0	1			3

B- Course Delivery

1. Coverage of Planned Program			
Topics Covered	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned
Course Outline, Review and Orientation	2	2	
Definitions such as: units, material balance, energy fundamentals, environmental chemistry, mathematics of growth.	6	6	
Introduction to pollution problems and environmental impacts of the urban development	4	4	

Liquid waste disposal: overland, in streams, lake and sea.	4	4	
Solid wastes: characteristics, management, storage, collection, disposal, and recycling.	4	4	
Air pollution: sources, effects and control.	4	4	
Noise pollution: sources, effects and control.	4	4	

2. Consequences of Non Coverage of Topics

For any topics where the topic was not taught or practically delivered, comment on how significant you believe the lack of coverage is for the course learning outcomes or for later courses in the program. Suggest possible compensating action.

Topics (if any) not Fully Covered	Effectuated Learning Outcomes	Possible Compensating Action

3. Course learning outcome assessment.

	List course learning outcomes	List methods of assessment for each LO	Summary analysis of assessment results for each LO
1	Define and quantify environmental quality.	Quizzes midterm examinations, final examination and Lab Reports	
2	Understand the principles involved in environmental engineering.	Quizzes midterm examinations, final examination and Lab Reports	
3	Apply engineering principles and practice in the design and operation of environmental engineering works.	Quizzes midterm examinations, final examination and Lab Reports	

4			
5			
6			
7			
8			

Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.

The students should have interaction with teacher and within themselves to understand more accurately in the topics in which they are weak.

4. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification. (Refer to planned teaching strategies in Course Specification and description of Domains of Learning Outcomes in the National Qualifications Framework)

List Teaching Methods set out in Course Specification	Were They Effective?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties.
	No	Yes	
Knowledge <ul style="list-style-type: none"> Knowledge is delivered through the course lectures Interactive learning process through questions and answers in lecture and class. Tutorials to help students to understand and ask about the course materials and solve problems 		√	
Cognitive Skills <ul style="list-style-type: none"> Some lectures include numerous examples, some of which are practical in nature, to illustrate steps involved in evaluating properties of materials. Tutorials are used for further explanations and applications on different problems. Engage students in classroom interaction with questions and answers. 		√	

Interpersonal Skills & Responsibility <ul style="list-style-type: none"> • Special attention and mark rewards are pointed to the submitting lab reports with accurate results. • Group Assignment is given to the students to solve and submit. Late or no submission of assignments carries penalties or loss of grade points. • Participation of students in classroom discussion. 		√	
Communication, Information Technology, Numerical <ul style="list-style-type: none"> • Encouraging students for submitting their assignments and labreports in neat and professional way. • Assist the students in class/tutorials or during discussion sessions for any difficulties they face in surfing internet to solve their problems. 		√	
Psychomotor Not applicable		√	

Note: In order to analyze the assessment of student achievement for each course learning outcome, student performance results can be measured and assessed using a KPI, a rubric, or some grading system that aligns student work, exam scores, or other demonstration of successful learning.

C. Results

1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A ⁺	3	21	
A	1	7	
B ⁺	2	20	
B	3	21	
C ⁺	1	7	
C	3	21	
D ⁺	0	0	
D	0	0	
F	0		
Denied Entry	0		
In Progress	0		
Incomplete	0		
Pass	12	100	
Fail	0		
Withdrawn	0		

2. Analyze special factors (if any) affecting the results

NO

3. Variations from planned student assessment processes (if any) (see Course Specifications). NO

a. Variations (if any) from planned assessment schedule (see Course Specifications)

Variation	Reason

b. Variations (if any) from planned assessment processes in Domains of Learning (see Course

Specifications)	
Variation	Reason

4. Student Grade Achievement Verification (eg. cross-check of grade validity by independent evaluator).

Method(s) of Verification	Conclusion
Marks obtained in Assignment/class work 5% Quizzes and Term Project 5% Mid-Term Written Exams 20% Lab evaluation 20% Final Exams 50%	

D Resources and Facilities

1. Difficulties in access to resources or facilities (if any) All Computing resources such as smart projectors are available in all class rooms.	2. Consequences of any difficulties experienced for student learning in the course. None
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E. Administrative Issues

1 Organizational or administrative difficulties encountered (if any) None	2. Consequences of any difficulties experienced for student learning in the course. None
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F Course Evaluation

1 Student evaluation of the course (Attach summary of survey results) YES

a. List the most important recommendations for improvement and strengths
See student evaluation and feed back
b. Response of instructor or course team to this evaluation
None
2. Other Evaluation (eg. by head of department, peer observations, accreditation review, other stakeholders)
Not available
a. List the most important recommendations for improvement and strengths
b. Response of instructor or course team to this evaluation
None

G Planning for Improvement

1. Progress on actions proposed for improving the course in previous course reports (if any).			
Actions recommended from the most recent course report(s)	Actions Taken	Action Results	Action Analysis
a.			

b.			
c.			
d.			

2. List what other actions have been taken to improve the course (based on previous CR, surveys, independent opinion, or course evaluation).

3. Action Plan for Next Semester/Year

Actions Recommended for Further Improvement	Intended Action Points (should be measurable)	Start Date	Completion Date	Person Responsible
a.				
b.				
c.				
d.				
e.				

Name of Course Instructor: ____ **Dr. Saleh Hamel AlSalem**

Signature: _____ Date Report Completed: ____08/02/2017

Program Coordinator: Dr. Abdulnoor Ghanim

Signature: _____ Date Received: _5.3.2017