



Course Specifications

Course Title:	Environmental Management System.
Course Code:	ENS 303
Program:	Environmental Sciences and Technology Program
Department:	Environmental Sciences
College:	Faculty of Meteorology, Environment and Arid Land Agriculture.
Institution:	King Abdulaziz University.

Table of Contents

A. Course Identification.....	3
6. Mode of Instruction (mark all that apply)	3
B. Course Objectives and Learning Outcomes.....	4
1. Course Description	4
2. Course Main Objective.....	4
3. Course Learning Outcomes	4
C. Course Content	5
D. Teaching and Assessment	5
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods.....	5
2. Assessment Tasks for Students	6
E. Student Academic Counseling and Support	6
F. Learning Resources and Facilities.....	7
1.Learning Resources	7
2. Facilities Required.....	7
G. Course Quality Evaluation	7
H. Specification Approval Data	8

A. Course Identification

1. Credit hours: 2 h			
2. Course type			
a.	University <input type="checkbox"/>	College <input type="checkbox"/>	Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input type="checkbox"/>	Elective <input checked="" type="checkbox"/>	
3. Level/year at which this course is offered: 5th Level / 3rd year			
4. Pre-requisites for this course (if any): ENS100			
5. Co-requisites for this course (if any):			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	Blended		60%
3	E-learning		40%
4	Correspondence		
5	Other		

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	30 h
2	Laboratory/Studio	
3	Tutorial	
4	Others (specify)	
	Total	30 h
Other Learning Hours*		
1	Study	
2	Assignments	
3	Library	4 h
4	Projects/Research Essays/Theses	
5	Others (specify)	
	Total	

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description	
Weeks	Topic
1	Introduction and objectives of IEM
2	Development and comparisons of EM Standards
3	EMS Standards and other EM tools
4	Reasons to seek EM registration
5	Costs and benefits of an EM
6	Segregation and collection of recyclable Material
7	Module 1: Commitment and Environmental Policy
8	Module 2: Initial Environmental Review
9	Mid-Term Exam
10	Module 3: Planning the Environmental Policy
11	Module 4: Implementing the Environmental Policy
12	Module 5: Measurement and Evaluation
13	Module 6: Audits and Review
14	Module 7: External Environmental Communication
15	Case Studies
16	Case Studies
17	Final Exam

2. Course Main Objective

- A statement of what the student will know and be able to do as the result of learning

1. Summary of the main learning outcomes for students enrolled in the course:
At the end of this course, it is expected that students will be able to:

- Identify the importance of IEM from the economic and environmental view pints
- Identify the role of IEM in protecting the environment
- Identify the steps of performing the IEM
- Identify the supporting requirements in performing IEM

- A statement on how they will be expected to demonstrate their learning

This will be carried out through case studies and problem solving

2. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Explanation and examples are given for each topic in class lectures	
1.2	Involvement of students in active discussion about topics	
1.3	Providing an opportunity for students to apply what they are learn in the classroom to real-life experiences	
1...	Homework assignments	
2	Skills :	
2.1	Describing of the course (What, Why, Philosophy, Teaching Methodology)	

CLOs		Aligned PLOs
2.2	Importance of IEM (Advantages and disadvantages) and its effect on environmental protection	
2.3	Development and comparisons of EMS Standards	
2.4	Steps of performing EMS	
3	Competence:	
3.1	Develop policy solutions for the environment	
3.2	Demonstrate an understanding of the importance of critical thinking and problem solving when approaching environmental problems	

C. Course Content

List of Topics		
Weeks	Topic	
1	Introduction and objectives of IEM	
2	Development and comparisons of EM Standards	
3	EMS Standards and other EM tools	
4	Reasons to seek EM registration	
5	Costs and benefits of an EM	
6	Segregation and collection of recyclable Material	
7	Module 1: Commitment and Environmental Policy	
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15	Case Studies	
16	Case Studies	
17	Final Exam	

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	list, name, record, define, label, outline, state,	<ul style="list-style-type: none"> • Involvement of students in active discussion about topics. 	<ul style="list-style-type: none"> • In class short quizzes. • Midterm, and final exams.
1.2	describe, recall, memorize, reproduce, recognize, record, tell, write	<ul style="list-style-type: none"> • Providing an opportunity for students to apply what they learn in the classroom to real-life experiences. 	<ul style="list-style-type: none"> • In class short quizzes. • Midterm

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		• Homework assignments.	
2.0	Skills		
2.1	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct,	<ul style="list-style-type: none"> • Homework assignments • Problem solving. • Laboratory experiments. 	<ul style="list-style-type: none"> • In class short quizzes • Midterm, practical, and final exams • Checking the problems solved in the homework assignments.
2.2	reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise	<ul style="list-style-type: none"> • Homework assignments • Problem solving. Laboratory experiments. 	<ul style="list-style-type: none"> • In class short quizzes • Midterm, practical, and final exams • Checking the problems solved in the homework assignments.
3.0	Competence		
3.1	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify,	1- Writing group reports 2- Solving problems in groups.	Grading homework assignments
3.2	analyze, question, and write	1- Writing group reports 2- Solving problems in groups.	Grading homework assignments

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Class activities (in class quizzes, and homework)	Weekly	20%
2	Mid-term Exam	8	40%
3	Final Exam	16	40%
4			
5			
6			
7			
8			

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

Office hours 4h/ week

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	El-Gayar, Omar; Fritz, Brian D. (2006). "Environmental Management Information Systems (EMIS) for Sustainable Development: A Conceptual Overview". Communications of the Association for Information Systems. Association for Information Systems. 17 (1 (article 34)). doi:10.17705/1CAIS.01734. ISSN 1529-3181. OCLC 796028508.
Essential References Materials	Hisey, K (2015). What is the importance and significance of environmental management? https://www.quora.com/profile/Keith-Hisey . Accessed 30/08/2019.
Electronic Materials	Websites on the internet that are relevant to the topics of the course
Other Learning Materials	Computer-based programs/CD, professional standards or regulations and software.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Lecture room with max 30 seats
Technology Resources (AV, data show, Smart Board, software, etc.)	AV, data show, Smart Board, software, etc
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Equipment and illustration tools relevant to the course material

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Strategies for Obtaining Student Feedback on Effectiveness of Teaching	<ul style="list-style-type: none"> Course evaluation by student Students- faculty meetings 	Direct
Strategies for Evaluation of Teaching by the Program/Department Instructor	<ul style="list-style-type: none"> Departmental council discussions Discussions within the group of faculties teaching the course 	Direct
Processes for Improvement of Teaching	<ul style="list-style-type: none"> Attending workshops given by experts on the teaching and learning methodologies. Periodical departmental revisions of its methods of teaching 	Direct

Evaluation Areas/Issues	Evaluators	Evaluation Methods
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	Direct, Indirect
Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.	<ul style="list-style-type: none"> The course material and learning outcomes will be 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. 	Direct, Indirect

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Dr. Fahed Aloufi
Reference No.	
Date	April 2021