Course Specification

(Postgraduate Programs)

Course Title:	Environmental and Natural Resources Protection
Course Code:	BIO-6124
Program:	**Master of Science in Applied Biology (Biodiversity, Wildlife Conservation & Management)**
Department:	**Biology**
College:	Science
Institution:	**Imam Mohammad Ibn Saud Islamic University**
Version:	1
Last Revision Date:	

Table of Contents

A. General information about the course:

1. Course Identification:

1. Credit hours: 3(Lecture 2+ Lab 2)

2. Course type

A.	☐University	☐College	☐Department	☒ Track
B.	☒ Required		☐ Elective	

3. Level/year at which this course is offered: (Level 1 / first year)

4. Course General Description:

This course will introduce students to the different types of natural resources and how they relate to what we describe as "the environment". Study of natural resources with special emphasis on soil, atmosphere, and water management including land types, conservation practices, and protection methods used to conserve our natural resources, plus the role of government agencies in the protection of the environment and natural resources.

5. Pre-requirements for this course (if any):

Biodiversity Studies and Applied Ecology.

6. Co-requisites for this course (if any):

7. Course Main Objective(s):

The objective of this course is that students will gain a basic understanding on the environment and natural resources, managing various types of resources with the aim of protecting the environment and natural resources. Students will learn also how these resources interact with and contribute to the national economy.

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	-	100%
2	E-learning	-	-
3	Hybrid • Traditional classroom	-	-

No	Mode of Instruction	Contact Hours	Percentage
	• E-learning		
4	Distance learning	-	-

3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	0
4.	Tutorial	0
5.	Others (specify) ……	0
	Total	**60**

B. Course Learning Outcomes, Teaching Strategies, Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Understand what natural resources are, and the importance of various types of natural resources.		Three credits weekly lectures, and discussion	- Quizzes - Presentations - Assignments - Written exams
1.2	Understand the principles of resource management, wildlife and its habitat, and soil and water resources.		Three credits weekly lectures, and discussion	- Quizzes - Presentations - Assignments - Written exams
1.3	Understanding of the ecological, social, and economic framework of natural resources.		Three credits weekly lectures, and discussion	- Quizzes - Presentations - Assignments - Written exams
2.0	**Skills**			

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.1	Describe and analyze ecosystems and associated natural resources.		Three credits weekly lectures, and discussion	- Presentations - Assignments - Written exams
2.2	Describe how climate change intersects with natural resources.		Three credits weekly lectures, and discussion	- Presentations - Assignments - Written exams
2.3	Describe the diverse approaches and ways of knowing associated with natural resources management.		Three credits weekly lectures, and discussion	- Presentations - Assignments - Written exams
3.0	**Values, autonomy, and responsibility**			
3.1	To appraise collaborative work skill.		Group discussions	- Presentations - Reports
3.2	To write reports and prepare presentations.		Group discussions	- Presentations - Reports

C. Course Content:

No	List of Topics	Contact Hours
1.	**Definitions of environment and natural resources**	3
2.	**Different types of natural resources: renewable, and non-renewable**	6
3.	**Role of individuals and governmental authorities in the conservation of natural resources**	6
4.	**Equitable use of natural resources for sustainable lifestyles**	3
5.	**Importance of protection and conservation of the environment and natural resources**	6
6.	**Ways of conservation of the environment and natural resources, and KSA's efforts in protecting the environment**	3
7.	**Protecting the environment and preserving natural resources laws**	3
Total		**30**

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	**Midterm exam-1**	5th week	20%
2.	**Midterm exam-2**	10th week	20%
3.	**Assignments, presentations, attendance, data search, participation**	Throughout the course duration	20%
4.	**Final exam**	16th week	40%
5.	**Total**		**100%**

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities:

1. References and Learning Resources:

Essential References	**1- Kaushik, Anubha and Kaushik, C.P., 2018. Perspectives in Environmental Studies.** **2- Bharucha, Erach Textbook of Environmental Studies for Undergraduate Courses, 2018.** **3- Alfred Muller, 2016. Natural Resources for Sustainable Development. Publisher: Callisto Reference, ISBN-10: 1632396955, 291 pages.** **4- Hisey K, 2015. What is the importance and significance of environmental management? https://www.quora.com/profile/KeithHisey.** **5- 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.** **3- 4-**
Supportive References	**1- Paul Cooper, 2018. Ecology and Natural Resource Management. Publisher : Syrawood Publishing House, ISBN-10: 1682865754, 236 pages.** **2- William G. Camp, Betty Heath-Camp, 2015. Managing Our Natural Resources 6th Edition. Publisher: Cengage Learning, ISBN-10: 1285835077, 608 pages.**

Electronic Materials	**American Journal of Environment Studies.**
Other Learning Materials	**-**

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom
Technology equipment (Projector, smart board, software)	Projector, smart board
Other equipment (Depending on the nature of the specialty)	

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of students assessment	Faculty	Direct
Quality of learning resources	Faculty	Direct
The extent to which CLOs have been achieved	Faculty	Direct
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

-	**BIOLOGY DEPARTMENT COUNCIL**
REFERENCE NO.	**23**
DATE	**23/8/1445**