



Course Specification

— (Postgraduate)

Course Title: Biodiversity Conservation and Management

Course Code: BIOD530

Program: Mater's in Biodiversity

Department: Department of Biology

College: Faculty of Science

Institution: University of Tabuk

Version: 2

Last Revision Date: 18/11/1444 H

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A. General information about the course:

1. Course Identificationn:

Credit hours:	/2 \
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2. 0	2. Course type					
			Y			
A.	□University	□College	⊠ Depa	rtment	□Track	
В.	\square Required			⊠ Elect	ive	
3. L	3. Level/year at which this course is offered: (Level 4/Second year)					
1 (A Course Consul Description:					

4. Course General Description:

This course covers topics on the conservation and management of the biodiversity of plants and animals in their natural habitats and selected areas. It also supports the development of practical skills in the conservation of animal and plant species, wildlife conservation, habitat management, and ecological sustainability. Also, it provides in-situ and ex-situ conservation of plants, and animals, translocation of animals and plants, the UN Convention on Biological Diversity and the member countries, national biodiversity authority, and conservation acts. It also describes the Environmental Protection Act and the Wildlife Protection Act. Further, it provides case studies from local and global communities on the conservation and management of biodiversity.

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

Plant and Animal Genetic Resources (BIOD503)

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

None

7. Course Main Objective(s):

- Describe biodiversity and conservation in the context of a range of natural ecosystems including woodlands, grasslands, and wetlands.
- Support the development of practical skills in habitat assessment and species identification.
- Describe in-situ and ex-situ conservation of plants and animals.
- Describe the UN Convention on Biological Diversity and the member countries.
- Know national biodiversity authority and conservation acts.
- Describe the Environmental Protection Act and the Wildlife Protection Act.
- Apply modern methods used for wildlife conservation, habitat management ecological sustainability.

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	100%
2	E-learning		

. . . .



No	Mode of Instruction	Contact Hours	Percentage
	Hybrid		
3	 Traditional classroom 		
	E-learning		
4	Distance learning		

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

No	Activity	Contact Hours
1.	Lectures	3 Hours/Week
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
	Total	45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Co de	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understa	nding		
1.1	Explain the key concepts and principles of biodiversity conservation and management.	K1	Lectures.Seminars.Class discussions.Problem-solving classes.Self-learning.	 Written exams (Midterm and Final exams). Quizzes. Class discussions.
1.2				
2.0	Skills			
2.1	Apply principles of biodiversity conservation to design practical management plans for preserving key plant and animal species in specific environments.	S1	 Lectures. Seminars. Class discussions. Problem-solving classes. Self-learning. Presentations. Case studies. 	 Written exams (Midterm and Final exams). Quizzes. Class discussions. Presentations.



Co de	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.2	Analyze the methods of conserving, and managing the biological diversity of plant and animal populations.	S2	 Seminars. Class discussions. Problem-solving classes. Self-learning. Presentations. Case studies. 	 Written exams (Midterm and Final exams). Quizzes. Class discussions. Presentations.
2.3	Develop comprehensive management plans that incorporate ecological, social, and economic considerations for sustainable biodiversity conservation.	S4	 Lectures. Seminars. Class discussions. Problem-solving classes. Self-learning. Presentations. Case studies. 	 Written exams (Midterm and Final exams). Quizzes. Class discussions. Presentations.
3.0	Values, autonomy, and re	esponsibility		
3.1	Engage in effective teamwork by collaborating with peers or individually to achieve shared goals in biodiversity conservation and management projects.	V2	Class discussions.Presentations.Assignments.Essays.Reports.	Class discussions.Presentations.Assignments.Essays.Reports.
3				

C. Course Content:

No	List of Topics	Contact Hours
1.	Introduction and Main Concept in Biodiversity Conservation & Management.	3
2.	In-situ and ex-situ conservation of plants, methods, and applications.	3
3.	Important plant species for conservation in a selected area in KSA.	3
4.	In-situ and Ex-situ conservation of animals.	3
5.	Methods of conservation and important animal species of selected areas in KSA. (Part I).	3
6.	Methods of conservation and important animal species of selected areas in KSA. (Part II).	3



7.	Animals and plants translocation.	3
8.	Protected areas and National Parks.	3
9.	Environmental Protection Act and the Wildlife Protection Act.	3
10.	Forest Conservation Act.	3
11.	Organizations, Conventions, and Conservation Acts (CITES, IUCN, RAMSAR sites).	3
12.	UN Convention on Biological Diversity and Member Countries.	3
13.	National Biodiversity Authority and Conservation Acts.	3
14.	Biodiversity Boards, Committees, and Registers.	3
15.	Case Studies on Biodiversity Conservation and Management.	3
	Total	45

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	Distributed over 3-12 weeks	10
2.	Assignments, Essays, or Reports	Distributed over 14 weeks	15
3.	Individual or group presentation	Distributed over 14 weeks	15
4.	Midterm Exam	8	20
5.	Final Exam	17	40
	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

- Thangadurai, D., Islam, S., Sangeetha, J. and Goh, H. C. (2019). Biodiversity and Conservation: Characterization and Utilization of Plants, Microbes and Natural Resources for Sustainable Development and Ecosystem Management, 1st edition. Apple Academic Press Inc., Canada. ISBN-13: 978-1771887489.
- Hawksworth, D. (2010). Management and the Conservation of Biodiversity. Springer. ISBN 978-90-481-3844-9.
- Gherardi, F., Corti, C. and Gualtieri, M. (2010). Biodiversity



	Conservation and Habitat Management, Vol. II. EOLSS Publications.		
Supportive References	 Biodiversity and Conservation. International Journal of Biodiversity Science, Ecosystems Services & Management. 		
Electronic Materials	Saudi Digital Library.UNSEDOC Digital Library.www.sciencedirect.com		
Other Learning Materials	- None.		

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	 A sufficient number of classrooms are available to accommodate up to 25 students. Library.
Technology equipment (Projector, smart board, software)	 Data show projectors and wireless internet connections available for students and faculties. Data show projectors and wireless internet connections available for students and faculties. Smart blackboard. Computer Portable PowerPoint presentations.
Other equipment (Depending on the nature of the specialty)	- None.

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	- Students.	- Direct & indirect.
Effectiveness of students assessment	 Course instructors & Course coordinator (Teachers). 	- Direct.
Quality of learning resources	- Students.	- Indirect.
The extent to which CLOs have been achieved	Course instructors.Course coordinator.Quality Committee.	- Direct & indirect.
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)



G. Specification Approval Data:

COUNCIL/COMMITTEE	Department of Biology Council
REFERENCE NO.	Department Council NO (26)
DATE	26/11/1444 H