
SIXTEENWEEKTEACHINGPLAN

Course& CourseCode	
Credit Hours	
Department	
Course Type:	
Theory/Lab	
Program	
Semester	
CourseInstructor name/Designation	
Office	
OfficeHours/Counselinghoursfor students	
Email ID:	

Note:Forpractical/labwork,aseparateteachingplancanbeprepared.

Week1	
Objectives	
Learning Outcome	
Contents/ SubContents	
AppropriateTeaching Strategies / Methods	Introduction to Protected Areas: Overview of the purpose and importance of protected areas in Pakistan UsingmultimediacprojectorandWhiteboard
LearningMaterial	SlidesandHandoutes

AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week2	
Objectives	
Learning outcomes	
Contents/ SubContents	Types of Protected Areas: Differences between national parks, wildlife sanctuaries, and game reserves
AppropriateTeaching Strategies/Methods	UsingmultimediacprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week3	
Objectives	•

Learning outcomes	
Contents/ SubContents	Case Study: National Parks: Example of a specific national park in Pakistan (e.g., Kirthar National Park).
AppropriateTeaching Strategies/Methods	UsingmultimediaprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week4	
Objectives	
Learning out comes	

Contents/ SubContents	Case Study: Wildlife Sanctuaries: Examination of a wildlife sanctuary (e.g., Churna Island).
AppropriateTeaching Strategies/Methods	UsingmultimediaprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week5	
Objectives	
Learning outcomes	

Contents/ SubContents	Case Study: Game Reserves: Analysis of a game reserve (e.g., Peshawar Game Reserve)
AppropriateTeaching Strategies / Methods	UsingmultimediacprojectorandWhiteboard
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week6	
Objectives	
Learning outcomes	
Contents/ SubContents	Captive Wildlife*: Observations and management practices in facilities such as zoos (e.g ,Rahim Yar khan Zoo)
AppropriateTeaching Strategies/Methods	UsingmultimediacprojectorandWhitebord
LearningMaterial	SlidesandHandoutes

Appropriate Assessment Tools	Assignment, Presentation and Quiz
Assessment Schedule	Weekly
Others	Nil
Week 7	
Objectives	
Learning outcomes	
Contents/ SubContents	Semi-Captive Wildlife: Overview of semi-captive settings like wildlife rehabilitation centers (e.g., The Wildlife Rehabilitation Centre, Islamabad)
Appropriate Teaching Strategies/Methods	Using multimedia projector and Whiteboard
Learning Material	Slides and Handouts
Appropriate Assessment Tools	Assignment, Presentation and Quiz
Assessment Schedule	Weekly
Others	Nil
Week 8	
Objectives	
Learning outcomes	

Learning outcomes	
Contents/ SubContents	Challenges in Protected Areas: Issues faced by these areas including poaching, habitat loss, and human-wildlife conflict.
AppropriateTeaching Strategies/Methods	UsingmultimediacprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week9	
Objectives	
Learning outcomes	
Contents/ SubContents	Conservation Efforts: Initiatives and strategies used to protect wildlife in these areas.
AppropriateTeaching Strategies/Methods	UsingmultimediacprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week 10	
Objectives	

Learning outcomes	
Contents/ SubContents	Ecological Indices Introduction to Ecological Indices: What ecological indices are and why they are used in wildlife studies.
Appropriate Teaching Strategies/Methods	UsingmultimediacprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week 11	
Objectives	
Learning outcomes	
Contents/ SubContents	Species Richness: Measuring the number of different species in a given area.
Appropriate Teaching Strategies / Methods	UsingmultimediacprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz

AssessmentSchedule	Weekly
Others	Nil
Week 12	
Objectives	
Learning Outcome	
Contents/ SubContents	Animal Distribution Maps Creating Distribution Maps: Methods and tools used to create and interpret animal distribution maps.
AppropriateTeaching Strategies/Methods	UsingmultimediacprojectorandWhiteboard
LearningMaterial	SlidesandHandouts
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil
Week 13	

Objectives	Objectives of the course includes : • Terrestrial environments and their microbiology • Types of microbes present in that area • Microbs present in hydrothermal vents
Learning Outcome	Students will be able to learn about terrestrial and hydrothermal vents microorganisms.

Contents/ SubContents	Microbial Ecology: Terrestrial environments, Hydrothermal vents,
Appropriate Teaching Strategies/Methods	Using multimedia projector and Whiteboard
Learning Material	Slides and Handouts
Appropriate Assessment Tools	Assignment, Presentation and Quiz
Assessment Schedule	Weekly
Others	Nil
Week 14	
Objectives/ Learning Outcome	
Contents/ SubContents	Case Study: Map of Endangered Species: Analyzing a distribution map of endangered species in Pakistan.
Appropriate Teaching Strategies/Methods	Using multimedia projector and Whiteboard
Learning Material	Slides and Handouts
Appropriate Assessment Tools	Assignment, Presentation and Quiz
Assessment Schedule	Weekly
Others	Nil
Week 15	
Objectives	

Learning out comes	
Contents/ SubContents	Spatial Analysis: Techniques for analyzing spatial data related to animal distribution.
AppropriateTeaching Strategies/Methods	UsingmultimediacprojectorandWhitebord
LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nill
Week 16	
Objectives	
Learning Outcome	
Contents/ SubContents	Impact of Human Activities: How human activities affect animal distribution and how maps reflect these changes.
AppropriateTeaching Strategies/Methods	UsingmultimediacprojectorandWhitebord

LearningMaterial	SlidesandHandoutes
AppropriateAssessment Tools	Assignment,PresentationandQuiz
AssessmentSchedule	Weekly
Others	Nil

Practical Outline:

Visit to Protected Areas of Pakistan: Captive, Semi-Captive, and Wildlife

1. Introduction to Protected Areas: Overview of the purpose and importance of protected areas in Pakistan.
2. Types of Protected Areas: Differences between national parks, wildlife sanctuaries, and game reserves.
3. Case Study: National Parks: Example of a specific national park in Pakistan (e.g., Kirthar National Park).
4. Case Study: Wildlife Sanctuaries: Examination of a wildlife sanctuary (e.g., Churna Island).
5. Case Study: Game Reserve: Analysis of a game reserve (e.g., Peshawar Game Reserve).
6. Captive Wildlife: Observations and management practices in facilities such as zoos (e.g., Rahim yar khan Zoo).
- 7 .Challenges in Protected Areas: Issues faced by these areas including poaching, habitat loss, and human-wildlife conflict.
9. Conservation Efforts: Initiatives and strategies used to protect wildlife in these areas.

2) Ecological Indices

10. Introduction to Ecological Indices: What ecological indices are and why they are used in wildlife studies.

3 Animal Distribution Maps

- 11 Creating Distribution Maps: Methods and tools used to create and interpret animal distribution maps.
12. Case Study: Map of Endangered Species: Analyzing a distribution map of endangered species in Pakistan.
15. Spatial Analysis: Techniques for analyzing spatial data related to animal distribution.
- 16 Impact of Human Activities: How human activities affect animal distribution and how maps reflect these changes.