

Introduction:

This course is designed to help you capture the beauty of the natural world through your camera lens. Whether you're an amateur photographer looking to improve your skills or a professional seeking new inspiration, this course will provide you with the knowledge and techniques to take stunning photographs of landscapes, wildlife, and natural phenomena.

Throughout this course, you will learn about the fundamental principles of photography, including exposure, composition, lighting, and color. You will also explore the different types of cameras, lenses, and accessories that are available, and how to choose the best equipment for your needs.

In addition to technical skills, this course will help you develop your creative vision and artistic expression. You will learn how to tell a story through your photographs, and how to capture the emotions and beauty of the natural world.

The course will cover a range of topics, including landscape photography, wildlife photography, macro photography, and astrophotography. You will also learn about the ethical considerations and safety measures involved in photographing wildlife and natural areas.

This course is designed for anyone who is passionate about photography and nature, whether you are a beginner or an experienced photographer. By the end of the course, you will have gained a deep understanding of natural photography and the skills necessary to take stunning photographs of the natural world.

Course Objectives:

The objective of this course is

1. to enable the student to Natural Photography
2. to understand the history of camera and its functions
3. to understand how to take photos of ecosystem landscapes, birds, mammals, insects

Course Learning Outcomes:

Upon successful completion of this course, the student will be able to:

1. ACQUIRE theoretical knowledge about nature and its components
2. UNDERSTAND the camera and its functions and the mechanics of imaging.
3. SOLVE and highlights the nature in photography
4. ANALYSE pictures and raw data of photographs
5. EVALUATE the key issues of nature
6. DEMONSTRATE the ecological assessment and importance of wildlife through photography

Course Outline

Ecology

1. Biodiversity:
 - a. Habitat:
 - b. Niche:
 - c. Biomes:
 - d. Biosphere:
2. Ecosystems:
 - a. Classes of Ecosystems:
3. Aquatic Ecosystem:
 - a. Marine Ecosystems:
 - b. Fresh Water Ecosystem:

4. Terrestrial Ecosystem:
 - a. Primary Terrestrial Ecosystems:
 - b. Tundra:
 - c. Taiga:
 - d. Temperate Deciduous Forest:
 - e. Tropical Rain Forest:
 - f. Grassland:
 - g. Deserts:
5. Conservation Photography
 - a. History:
 - b. Definition:
6. Subjects of Conservation Photography:
 - a. Application of Conservation Photography:
 - b. Photography of Birds
 - c. Photography of Small Birds:
 - d. Photography of Wading Birds:
 - e. Photography of Birds of Prey:
 - f. Photography of Birds in Flight:
7. Photography of Animals, Flowers and Insects
8. Camera settings for the wildlife photographer:
9. Photographing the Portraits of Animal
10. Photographing Animals in Motion:
11. Photographing close ups of Flowers:
 - a. Photography of Insects:
12. Photographing potentially dangerous Insects:
 - a. Photographing Forests,
 - b. Mountains and Water bodies
13. Photographing the Trees in the Forest:
 - a. Photographing Mountains:
 - b. Finding a center of interest:
 - c. Photographing Water bodies:
 - d. Photography of Water in Motion:
14. Geotag Photography
 - a. GPS
 - b. Georeferencing ugh photography

Teaching-Learning Strategies
Teaching will be a combination of class lectures, class discussions, and group work. Short videos /films will be shown on occasion.

Assignments

The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.

Assessments and Examination

Sessional Work:	25 marks
Midterm Exam:	35 marks
Final term Exam:	40 marks

Text and Reference Books:

1. Brian Black 2017 DSLR Photography for Beginners: Take 10 Times Better Pictures in 48 Hours or Less! Best Way to Learn Digital Photography, Master Your DSLR Camera & Improve Your Digital SLR Photography Skills Kindle Edition
2. Tim Fitzharris 2018 National Audubon Society Guide to Nature Photography NASG USA
3. Thomas Heaton 2017 Landscape Photography On Location: Travel, Learn, Explore, Shoot Kindle Edition

4. Sean Arbabi 2011 The Complete Guide to Nature Photography: Professional Techniques for Capturing Digital Images of Nature and Wildlife Paperback
5. Art Wolfe 2013 The New Art of Photographing Nature: An Updated Guide to Composing Stunning Images of Animals, Nature, and Landscapes Paperback

UZO-550 Natural Photograph (Lab)

Cr. (1)

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12. DEMONSTRATE the ecological assessment and importance of wildlife through photography

Practicals:

1. Use of camera
2. Photographs of moving objects (animals)
3. Photographs of still objects (Landscape)
4. Geotagging and analysis of data on maps

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