

INSTITUTE OF WILDLIFE SCIENCE

Syllabus

Certificate Course in Ornithology (CCO)



UNIVERSITY OF LUCKNOW

Syllabus

Certificate Course in Ornithology

Objectives:

- To generate qualified students who can directly get jobs in the allied fields of Ornithology
- To generate qualified certificate holders who can be part professional organizations working in the field of conservation.
- To generate a team of field experts who can take up jobs related to the environment in educational institutions.
- To generate a skilled certificate holder who can undertake research in the field of Ornithology.

Qualification: 10+2 in any Stream and other eligibility according to admission norms of University of Lucknow.

Seats: 16+4 (sponsored candidates from any Institute, NGOs, Govt. department etc.) =20 Candidates

Duration: 6 months (July-December)

Number of Lecture: 40 Lecture /paper

No of Practical Period: 3 practicals of 2 lecture/week

Selection: Merit based

Certificate Course in Ornithology (CCO) SYLLABUS IN BRIEF CCO

Paper	Code	Lectures	Marks
Basics of ornithology, Breeding, Migration, Bird census and Conservation	CCO 101	40	100
Practical work and Project Report	CCOP 101	120	50
TOTAL		160	150

SYLLABUS IN DETAIL

NOTE:

- While teaching, examples from birds should be covered, wherever applicable.
- Case studies (Indian & foreign), wherever applicable should be discussed as a part of the syllabus
- Ensure that students are in touch with latest developments especially with respect to civil society's movements, Government policies, International agreements etc.

THEORY

□ CCO 101: Basics of ornithology, Breeding, Migration, Bird census and Conservation

- An introduction to Ornithology,
- Ornithology and Birding,
- History of Indian Ornithology,
- What is a bird, Anatomy & Physiology?
- Avian diversity
- Avian identification and Classification,
- Flight (Advantages and adaptations for flight),
- Origin and Evolution of Birds,
- Taxonomy & Systematics (Origin of flight)
- Techniques,
- Bird sense & Social Behaviour (Communication, Territory, Flocking, Courtship and Breeding, Nesting, Incubation etc.)
- Avian food & Foraging
- Mating systems in Birds
- Migration (Types and Causes of migrations, what about birds that don't migrate?)
- Plumology (Feathers, Kinds of feathers, molt, color)
- Ecology of bird populations (Extinction, Geographical Ecology, Population Ecology)
- Bird Communities
- Bird Conservation
- Applications of Ornithology, Avian Biology, Avian ecology & Field methods, Ornithological societies and Journals, Avian structure and function, Famous ornithologists of the World,
- Requirements for Birding (Binoculars, Telescopes, Camera, Notebook, Bird identification key etc)

Practical

Note:

- Field visits will be integral part of the Practical. Visits to nearby Zoo, Museum, Forest, Nursery, Aquaria or any other relevant site must be arranged.
- The report of these visits will be submitted as part of the Practical work.

CCOP 101

Field Study of Birds

1. 4 to 6 Field trips for bird study. The trip will be day trips
2. Three days' camp for study of bird and their habitats
3. Bird Photography
4. Web Surfing of birds.
5. Preparing PPT and submit a report

QUESTION PAPER PATTERN THEORY

Total Marks – 100

Total duration – Three hours

Total question – 05

Marks for each question – 20

Coverage of each question – each question will correspond to each unit taught in that semester

Compulsory questions – All five questions will be compulsory.

PRACTICAL

Total Marks – 50

Total duration – Five hours

Total questions – 05

Distribution of marks – Question No. 1, 2, and 3 –10 marks each (performance & results)

Question No. 4 – Reports of field visits – 15 marks

Question No. 5 – Viva voce –05 marks