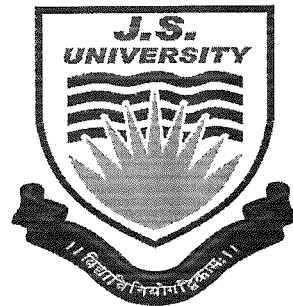


# J.S. University, Shikohabad

Established by UP Govt. Act No. 07 of 2015

Recognized by U.G.C. under section 2 (f) of Act-1956



Value Added Course

**Wild life conservation and management  
programme**

Course Code- VAC-186

**Department Of Zoology**

Faculty of Science



## **Wild life conservation and management programme**

### **Learning Outcome:**

Many governmental, non-governmental organizations, corporates and institutions run programmes of Biodiversity conservation and nature conservation awareness. These programmes need many trained manpower to meet the programme objectives. With the popularity of wildlife Biology, eco-tourism and allied fields like wildlife and adventure (sports) based tourism, the existing travel agencies, resorts and chains hotels find it difficult to satisfy the needs of information assistance and guidance expected by their clients.

Eco-tourism and conservation have a great deficiency of qualified personnel, who can guide, lead or organise tours and other programmes into the realm of nature. This course intends to develop such qualified professionals with skills, information and know how, so as to step into high-end jobs or become entrepreneurs, while sticking to the basic field of biological sciences.

**Duration:** 30 Hours. (Theory and Practical)

### **Course outcomes:**

- To generate qualified students who can directly get jobs in the allied fields of Biodiversity, conservation and wildlife management.
- To generate qualified who can be part professional organizations working in the field of conservation and environment protection.
- To produce a skilled post graduates who can undertake research in the field of Biodiversity, wildlife biology and nature conservation.
- To create awareness about Biodiversity and nature conservation.



- This course is dynamic and interactive in nature. The syllabus is broad guideline and its implementation and coverage can be varied in tune with industry requirements.

### **Syllabus-**

#### **Module –I BIODIVERSITY: GLOBAL AND INDIAN**

1. Biodiversity, types of biodiversity
2. Climatic zones
3. Biodiversity as a natural resource
4. Major protected areas and their importance
5. Biodiversity hot spots

#### **Module –II BASICS OF WILDLIFE BIOLOGY**

1. Scope of wildlife biology
2. Domestic animals and wildlife disease
3. Major diseases and their control
4. Wildlife and human welfare
5. The Economics of Ecosystem and Biodiversity

#### **Module –III PRINCIPLES OF CONSERVATION BIOLOGY**

1. Types of habitats and their major ecological factors
2. Ecological succession and climax ecosystems
3. Insular habitats and insular flora and fauna
4. Carrying capacity in wildlife areas
5. Role of government and NGOs in controlling human-wildlife interactions  
Socio-economic issues related to human-wildlife interactions



**Module –IV      APPLICATIONS OF INFORMATION TECHNOLOGY  
IN FIELD OF BIOLOGY**

1. Computational needs in the field computer and its applications
2. Radio-telemetry- various restraining, capture techniques and types of cages for animals
3. Hand held and satellite based systems
4. Audio records- various audio recording techniques
5. Principles and practices of geographic information system

**PRACTICAL / PROJECT**

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


**Reference Books:**

1. **Wildlife Habitat Management** by **Benda C. McComb** ISBN: 9781439878569, 2015.
2. **State Wildlife Management and Conservation** by **Thomas J. Ryder** ISBN: 9781421424460, 2018.
3. **Disease in Wild Animals: Investigation and Management** by **Gary A. Wobeser**, 2007.
4. **Conservation Directory** by **Arlander C. Brown; Lindsey Breuer** ISBN: 9781631440502
5. **Wildlife Conservation and Management** by **Reena Mathur**.



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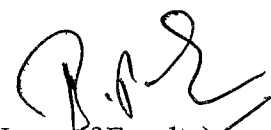
Value Added Course  
AY-2022-23

  
(Name of Faculty)  
Course Coordinator

Dr. Anju Singh

  
(Name of Faculty)  
Dean Academics

Dr. Akhilesh

  
(Name of Faculty)  
Director/Principal/Dean of  
Faculty/Department

Dr. B.P.S. Chauhan