

**Introduction**

The course is designed to provide students with an understanding of zoogeography, the study of the spatial patterns, or geography, of animals. The focus of the course will be on the ecology of zoogeography and the application of zoogeography theory to conservation of species and biodiversity. However, we will also examine basic environmental and zoogeographic patterns and basic zoogeographic processes.

**Course Objectives**

1. Develop an understanding of the discipline of zoogeography.
2. Examine environmental and zoogeographic patterns.
3. Develop an understanding of the influence of earth history and basic zoogeographic processes
4. on animals.
5. Examine, in detail, ecological zoogeography including the theory of island biogeography and the application of the theory to terrestrial islands and conservation.

**Course Contents:**

Branches of zoogeography (Descriptive, chorology, Faunistics, systematic, biocoenotic, causal, ecological, historical, experimental and applied zoogeography); Animal distribution (Cosmopolitan distribution, discontinuous distribution, isolation distribution, bipolar distribution and endemic distribution); Barriers and dispersal (Barriers and means of dispersal in marine, fresh water and terrestrial environments); Zoogeographical regions (division, geographic ranges, physical features, climates, faunas and affinities of Holarctic (Palaeartic and Nearctic regions), Oriental, Ethiopian,

Australian and New tropical Regions); Insular fauna (Continental islands, Oceanic Islands); Palaeogeography (Land bridges, Continental drift and Plate tectonics).

### **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

### **Books Recommended**

1. Cox C.B. and Moore P.D., 2016. Biogeography: An Ecological and Evolutionary Approach. 9<sup>th</sup> edition. Wiley, USA.
2. Darlington, 1980. Zoogeography. John Wiley & Sons, New York.
3. Allee, Schimidt and Hesse, 1966. Ecological Animal Geography. John Wiley & Sons, Ltd., New York.
4. De Beaufort, 2003. Zoogeography of the Land Inland Waters. Sidgwick & Jackson, Ltd., London.
5. Ekman, 1967. Zoogeography of the sea. London, Sedgwick and Jackson, Ltd London.
6. Lillies, 1974. Introduction to Zoogeography. By Joachim lilies. Translated by WD Williams. London: Macmillan.
7. Muller, 1974. Aspects of Zoogeography. Hague, Dr. W. Junk Publishers
8. Jafri, 1977. Land Zoogeography of World.

**Z-4806 Zoogeography (Lab.)**

**Cr. 1**

### **Introduction**

Basic exercises of distribution. This course provides information on the distribution of animals and their association in different zoological regions of world.

### **Course Objectives**

Formation of expert who possess knowledge about the zoogeography, classification and distribution of animals.

### **Course Contents:**

The classification of vertebrate animals up to species and their zoogeographical regions and distribution types.

### **Teaching-Learning Strategies**

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### **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
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