

**Institute of Zoology
Faculty of Life Sciences
University of the Punjab, Lahore
Course Outline**



Programme	BS Zoology	Course Code	ZOOL-420	Credit Hours	1
Course Title	Lab. Zoogeography				
Course Introduction					
This course provides information on the distribution of animals and their association in different zoological regions of the world. Formation of the experts who possess knowledge about zoogeography, classification and distribution of animals.					
Learning Outcomes					
Upon successful completion of the course, the student will be able to:					
<ol style="list-style-type: none"> 1. Describe the zoogeographical distribution of animals and processes involved in the fossilization of animals. 2. Illustrate the association of animals present to their past through fossils record. 3. Develop the understanding of speciation, dispersal isolation and extinction process through biogeography and fossils record. 4. Illustrate the ability to locate, characterize and differentiate various biomes and fossils of animals over time. 5. Explain the distribution of animals on the basis of fossils record. 					
Course Content					Assignments/Readings
Week 1	Unit-I 1.1 Classification of mammals and their distribution type 1.1.1 <i>Elephas, Loxodonta, Bison, Giraffa, Okapi</i>				Mammalian Classification and Distribution
Week 2	Unit-II 2.1 Classification of mammals and their distribution type 2.1.1 <i>Diceros, Tapirus, Antilope, Tetracerus, Bos</i>				Mammalian Classification and Distribution
Week 3	Unit-III 3.1 Classification of Aves and their distribution type 3.1.1 <i>Apteryx, Dromaius, Rheas, Struthio, Oriolus</i>				Aves Classification and Distribution
Week 4	Unit-IV 4.1 Classification of Aves and their distribution type 4.1.1 <i>Pelecanus, Cuculus, Tyto, Bubo, Bocerus</i>				Aves Classification and Distribution
Week 5	Unit-V 5.1 Classification of Fishes and their distribution type 5.1.1 <i>Neoceratodus, Lepidosiren, Protopterus, Theila, Rohu, Trout</i>				Fishes Classification and Distribution
Week 6	Unit-VI 6.1 Classification of Reptiles and their distribution				Reptiles Classification and

	type 6.1.1 <i>Heloderma, Vipera, King Kobra, Typhlops, Uropeltis</i>	Distribution
Week 7	Unit-VII 7.1 Classification of Reptiles and their distribution type 7.1.1 <i>Xenopeltis, Python, Geoclemys, Alsophylax, Varanus</i>	Reptiles Classification and Distribution
Week 8	Unit-VIII 8.1 Classification of Amphibians and their distribution type 8.1.1 <i>Xenopus, Hyla, Rana, Triturus, Salamander, Caecilia</i>	Amphibians Classification and Distribution
Week 9	Unit-IX 9.1 Classification of common animals and their distribution 9.1.1 Sparrow, Bulbul, Parrot, Dove, Pigeon	Common animals Classification and Distribution
Week 10	Unit-X 10.1 Classification of common animals and their distribution 10.1.1 Buffalo, Goat, Sheep, Cow, Horse	Common animals Classification and Distribution
Week 11	Unit-XI 11.1 Faunal Study of Palearctic Region	Distribution and Classification
Week 12	Unit-XII 12.1 Faunal Study of Nearctic Region	Distribution and Classification
Week 13	Unit-XIII 13.1 Faunal Study of Neotropical Region	Distribution and Classification
Week 14	Unit-XIV 14.1 Faunal Study of Ethiopian Region	Distribution and Classification
Week 15	Unit-XV 15.1 Faunal Study of Australian Region	Distribution and Classification
Week 16	Unit-XVI 16.1 Faunal Study of Oriental Region	Distribution and Classification

Textbooks and Reading Material

1. Akbar Khan, M., et al., 2023. Laboratory Manual Principles of Palaeontology and Zoogeography. Azeem Publishers, 22 Urdu bazar Lahore, Pakistan.
2. Cox C.B. and Moore P.D., 2016. Biogeography: An Ecological and Evolutionary Approach. 9th edition. Wiley, USA.
3. Darlington, 1980. Zoogeography. John Wiley & Sons, New York.
4. Allee, Schimidh and Hesse, 1966. Ecological Animal Geography. John Wiley & Sons, Ltd., New York.
5. De Beaufort, 2003. Zoogeography of the Land Inland Waters. Sidgwick & Jackson, Ltd., London.
6. Ekman, 1967. Zoogeography of the sea. London, Sedgwick and Jackson, Ltd London.
7. Lillies, 1974. Introduction to Zoogeography. By Joachim lilies. Translated by WD Williams. London: Macmillan.
8. Muller, 1974. Aspects of Zoogeography. Hague, Dr. W. Junk Publishers
9. Jafri, 1977. Land Zoogeography of World.

Teaching Learning Strategies			
1. Class lectures 2. Class discussions 3. Group work 4. Documentary			
Assignments: Types and Number with Calendar			
1. Assignments as mentioned in the above column.			
Assessment			
Sr. No.	Elements	Weightage	Details
1.	Midterm Assessment	35%	Written Assessment at the mid-point of the semester.
2.	Formative Assessment	25%	Continuous assessment includes: Classroom participation, assignments, presentations, viva voce, attitude and behavior, hands-on-activities, short tests, projects, practical, reflections, readings, quizzes etc.
3.	Final Assessment	40%	Written Examination at the end of the semester. It is mostly in the form of a test, but owing to the nature of the course the teacher may assess their students based on term paper, research proposal development, field work and report writing etc.