

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



Programme	BS Zoology	Course Code	ZOOL-209	Credit Hours	2
Course Title	Animal Behavior				
Course Introduction					
Animal Behavior is a fascinating field that explores the various ways of interaction of animals with their environment and other species. This course covers the fundamental concepts and terminology used in the study of animal behavior. It emphasizes to learn animal responses to external stimuli and their behavioral mechanisms. It will be interesting for the students to understand the role of genetic and neurophysiology in behavioral development.					
Learning Outcomes					
On the completion of the course the student will be able to:					
1. Learn the fundamental information and knowledge of animal behavior					
2. Associate the role of external and internal stimuli on various animals during the day, season and year					
3. Relate daily biological rhythms					
4. Predict variety of animal actions which will be assessed by innate and learnt behavior study					
5. Integrate the animal behavior as balanced mechanism to develop animal personality					
Course Content				Assignments/Readings	
Week 1	1. Introduction 2. history of animal behavior 3. Approaches and methods				
Week 2	1. Proximate and ultimate causes of behavior 2. Role of external and internal stimuli in animal responses				
Week 3	1. Physiology of behavior 2. Hormones and behavior in animals				
Week 4	1. Innate behavior and innate releasing mechanisms 2. Learnt behavior and its mechanisms; quick learner vs slow learners				
Week 5	1. Effect of genes on animal behavior 2. Concept of territoriality and defense in animals				
Week 6	1. Biological rhythms 2. Maintenance of internal biological clock to perform various diurnal and nocturnal periodicities				
Week 7	1. Cost and benefit ratio in behavior 2. Successful foragers and winners of predator-prey relationships				
Week 8	1. Communication 2. Visual, bioacoustics, electrical, chemical and tactile communication				
Week 9	1. Competition for resources 2. Survival of the most suitable individuals				
Week 10	1. Social organization in animals 2. Group living; benefits and losses				

Week 11	1. Migration 2. Benefits and consequences of migration		
Week 12	1. Foraging 2. Optimal foraging		
Week 13	1. Hibernation 2. Aestivation		
Week 14	1. Habituation 2. Sensitization		
Week 15	1. Imprinting 2. Altricial vs precocial		
Week 16	1. Altruism and parental sacrifice to nurture the young		
Textbooks and Reading Material			
1. Dngatkin, L. A. 2012. Principles of Animal Behavior.W.W. Nortan and Co.New York. 2. Alcock, J. 2010. Animal behavior, an evolutionary approach. 9 th Edition. Sinauer Publishers. 3. Scott, G. 2009. Essential Animal Behavior. Wiley publishers 4. Scott, G. 2005.Essential Animal Behavior. Blackwell Pub. New York. 5. Goodenough, J., McGuire, B., Wallace, R.A. 2001.Perspective on Animal Behavior. John Wiley & Sons, New York.			
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: Types and Number with Calendar			
The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.			
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. class Attendance
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.