

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



**Course Outline**

<b>Programme</b>	BS Zoology	<b>Course Code</b>	ZOOL-214	<b>Credit Hours</b>	1
<b>Course Title</b>	<b>Lab. Animal behavior</b>				
<b>Course Introduction</b>					
Animal Behavior is a fascinating field that explores the various ways of interaction of animals with their environment and other species. 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.					
<b>Learning Outcomes</b>					
On the completion of the course the student will be able to:					
<ol style="list-style-type: none"> <li>1. Learn the fundamental information and knowledge of animal behavior</li> <li>2. Associate the role of external and internal stimuli on various animals during the day, season and year</li> <li>3. Relate daily biological rhythms</li> <li>4. Predict variety of animal actions which will be assessed by innate and learnt behavior study</li> <li>5. Integrate the animal behavior as balanced mechanism to develop animal personality</li> </ol>					
<b>Course Content</b>					<b>Assignments/Readings</b>
<b>Week 1</b>	Introduction to animal behavior practicals				
<b>Week 2</b>	Study of social behavior of termites				
<b>Week 3</b>	Trial and Error learning				
<b>Week 4</b>	Study of reflexes				
<b>Week 5</b>	Study of conditioned reflexes				
<b>Week 6</b>	Study of habituation in mosquito larva				
<b>Week 7</b>	Study of habituation in snail				
<b>Week 8</b>	Study of social behavior of honeybees				
<b>Week 9</b>	Study of Biological rhythms				
<b>Week 10</b>	Experiments showing hormonal involvement in behavioral responses				
<b>Week 11</b>	Study of latency, summation, warm up and fatigue				
<b>Week 12</b>	Study of inhibition and feedback				
<b>Week 13</b>	Study of the effect of light and darkness on mosquito larva				
<b>Week 14</b>	Study of Imprinting				
<b>Week 15</b>	Tour of Zoo for studying animal behavior in captive animals				
<b>Week 16</b>	A visit to Zoo Safarai				
<b>Textbooks and Reading Material</b>					
<ol style="list-style-type: none"> <li>1. Dngatkin, L. A. 2012. Principles of Animal Behavior. W.W. Norton and Co. New York.</li> <li>2. Alcock, J. 2010. Animal behavior, an evolutionary approach. 9<sup>th</sup> Edition. Sinauer Publishers.</li> <li>3. Scott, G. 2009. Essential Animal Behavior. Wiley publishers</li> <li>4. Scott, G. 2005. Essential Animal Behavior. Blackwell Pub. New York.</li> <li>5. Goodenough, J., McGuire, B., Wallace, R.A. 2001. Perspective on Animal Behavior. John Wiley &amp; Sons, New York.</li> </ol>					

### 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.