



University of Management & Technology
School of Science
Department of Life Science

ZL-302 Animal Behaviour

Lecture Schedule	Tuesday and Friday 08:00 AM – 09:15 AM	Semester	Spring 2020
Pre-requisite	---	Credit Hours	3
Instructor	Ms. Nabiha Naeem	Contact	nabiha.naeem@umt.edu.pk
Office	3S-37	Office Hours	Available during office timings
Course Description	<p>The course aims to:</p> <ul style="list-style-type: none"> • To Impart knowledge about animal responses to external stimuli • To Emphasize different kinds of behaviors classical and modern concepts • To Explain through examples development, evolution and occurrence of behavior • To understand the genetic and neurophysiological basis of behavior 		
Expected Outcomes	<p>After successful completion of this course, a student will be able to:</p> <ol style="list-style-type: none"> 1. Understand and identify behaviors in a variety of taxa 2. Competently discuss the evolutionary origins of various behaviors 3. Design and implementing experiments to test hypotheses relating to animal behavior 4. Using statistical analyses appropriate to the experiment's design 		
Textbook(s)	<ol style="list-style-type: none"> 1. Alcock, J. (2018). Animal behavior: An evolutionary approach.10th Ed. Sunderland, Massachusetts : Sinauer Associates, Inc. Publishers 2. Dugatkin, L. A. (2014). Principles of animal behavior.3rd Ed. New York: W.W. Norton & Company. 		
Grading Policy	<ul style="list-style-type: none"> • Quizzes 20% • Assignment 15% • Project 05% • Take Home Exam 25% • Presentations 15% • Viva Voce 10% 		

Course Schedule

Week	Lecture #	TOPICS
1	1 2	<ul style="list-style-type: none"> • Introduction of animal behavior • Foundations of animal behavior
2	1 2	<ul style="list-style-type: none"> • History and Contributions of Ethologist • Ethology and classical ethology
3	1 2	<ul style="list-style-type: none"> • Innate and Learned behavior • Types of Learning behavior
4	1 2	<ul style="list-style-type: none"> • Development of behavior: innate mechanisms, imprinting
5	1 2	<ul style="list-style-type: none"> • Kinds of behavior: innate, conditioned, complex behavior patterns, habituation.
6	1 2	<ul style="list-style-type: none"> • Mechanisms of behavior: Nervous system and behavior, hormones and behavior,
7	1 2	<ul style="list-style-type: none"> • Social behavior: agonistic, altruistic
8	1 2	<ul style="list-style-type: none"> • kinship, mating, ritualization, • dominance, territoriality
9	1 2	<ul style="list-style-type: none"> • Mid Term • Review
10	1 2	<ul style="list-style-type: none"> • Biological rhythms: circadian clocks, clock genes etc.
11	1 2	<ul style="list-style-type: none"> • Social organization: conflict, sexual behavior
12	1 2	<ul style="list-style-type: none"> • Reproduction and fitness
13	1 2	<ul style="list-style-type: none"> • Parental care, social system
14	1 2	<ul style="list-style-type: none"> • Animal Communication: chemical attraction, in moths, honey bees
15	1 2	<ul style="list-style-type: none"> • communication displays, pheromones etc.