

Semester:	02		
Course Code:	<u>ZOOL 12722</u>		
Course Name:	Animal Behaviour		
Credit Value:	02		
Status:	Compulsory		
Pre-requisite:	BIOL 11552		
Co-requisites:	None		
Hourly Breakdown:	Theory	Practical	Independent Learning
	24	10	66

Intended Learning Outcomes:

After completion of this course unit, the student will be able to:

1. explain the basic behavioural patterns of animals,
2. explain the proximate controls of behaviour including the role of hormones, the animal's genotype and the animal's environment in the development of behaviour,
3. discuss the evolutionary and adaptive significance of biological rhythms, animal communication, social behaviour, territoriality, sexual selection and mating systems, and
4. demonstrate practical skills in recognizing basic behavioural patterns of animals in the field.

Course Content:

Introduction to animal behavior, The proximate and ultimate dichotomy of behaviour, Basic behavioural patterns including taxis, kinesis and Fixed Action patterns, Learning and ontogeny of behaviour, Role of hormones in behaviour, Animal senses, Animal communication, Communication in social insects, Biological rhythms including migration, hibernation and biological clocks, Sexual selection, Mating systems and parental care, Aggression, Foraging behaviour, Behaviour and evolution, The genetics of behaviour, Motivation and drive, Social behaviour of higher vertebrates.

Practical sessions on animal behaviour: Video presentations on different types of learning in animals, Video presentations on animal communication, Aggressive behaviour of selected animals, Taxis behaviour of selected animals, Study of kinesis using a choice chamber.

Teaching /Learning Methods:

A combination of lectures, practical sessions, computer based learning, self-studies, field based assignments and small group discussions.

Assessment Strategy:

Continuous assessment and end of semester examination. Percentage given for each sub-component indicates the percent contribution to the final marks.

Continuous assessment 30 %		Final Assessment 70 %		
Details:		Theory	Practical	Other
Quizzes	10 %	70 %	-	-
Assignments	10 %			
Laboratory reports	10 %			

Recommended Readings:

1. Alcock, J. (2021). *Animal Behavior: An Evolutionary Approach*. 11th Edition, Sinauer.
2. Drickamer, L.C., S. H. Vessey & D. Meikle (2002). *Animal Behavior: Mechanisms, Ecology and Evolution*. WMC Brown Publishers.
3. Dugatkin, L.A. (2013). *Principles of Animal Behavior*. 3rd Edition. WW Norton and Co.
4. Goodenough, J., B. McGuire & E. Jakob (2021). *Perspectives on Animal Behavior*. 3rd Edition. John Wiley and Sons.
5. Kappeler, P.M. (2010). *Animal Behaviour: Evolution and Mechanisms* Berlin, Heidelberg: Springer-Verlag Berlin Heidelberg, (Electronic resource).
6. Manning A. & M. S. Dawkins (2012). *An Introduction to Animal Behaviour* (6th Edition), Cambridge University Press.
7. Martin, P. & P. Bateson (2007). *Measuring Behaviour: An Introductory Guide*. Cambridge University Press.