

Name of the Programme: M. Sc. Zoology

Course Code: ZOO-523

Title of the Course: Animal Behaviour (Theory)

Number of Credits: 03

Effective from AY: 2023-24

Pre-requisites for the Course:	Basic knowledge of animal science and behaviour	
Course Objectives:	1. To develop concepts in animal behaviour 2. To analyze the different behaviours of animals 3. To assess the behaviours of human beings	
Content:	Module 1 Introduction to animal behaviour (ethology): social behaviour: parental care-types, parent offspring conflict, sexual strategies, mating types and courtship, aggression and territory. Communication in animals: auditory, echolocation, infra and ultra sounds, tactile, visual, pheromones- vertebrates and invertebrates, language of honey bees-circle and waggle dance. Feeding strategies: heterotrophs, parasitic, saprophytes, commensalism, mutualism, coprophagy and hematophagy.	15 hours
	Module 2 Learning and imprinting, habituation, conditioning. trial and error, neural mechanism of learning in animals. Socio-biology: Introduction, WO Wilson, Richard Dawkins, WD Hamilton, Units of socio-biology. Hamilton's theory and Altruism, cooperation, reciprocation and Eusociality. Contributions to sociobiology: Jane Goodall and Dian Fossy; Properties, advantages of a social group, social organization in primates.	15 hours
	Module 3 Migration and navigation of animals: Introduction, types and causes of migration in fishes and birds, advantages of migration. Methods of studying migration and navigation.	15 hours

	Human ethology: Introduction, ethological concepts and human behavior, concepts of sign stimulus and imprinting, kinship and human social system, human beings and territorial behavior, human aggressive behavior.	
Pedagogy:	Lectures/ tutorials/assignments/self-study/Field study	
References/ Readings:	<ol style="list-style-type: none"> 1. J. Alcock, Animal Behavior: An Evolutionary Approach. United States: Oxford University Press, Incorporated, 2013. 2. R. Mathur, Animal Behaviour. India: Rastogi publications, 2014. 3. J.T. Bonner, The Evolution of Culture in Animals. United States: Princeton University Press, 2018. 4. L. Ehrman, P.A. Parsons, The Genetics of Behavior. United States: Sinauer Associates, 1976. 5. T. Halliday, Sexual Strategy. United Kingdom: Oxford University Press, 1980. 	
Course Outcomes:	<p>The learner will</p> <ol style="list-style-type: none"> 1. Observe and interpret animal behaviour 2. Classify the different types of animal behaviour 3. Analyze the behavioural patterns of animals 4. Determine the reasons behind different behaviour 	

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