Course Code: ZOO 432 Number of Credits: 02 Effective from AY: 2020 -21

Prerequisite for the Course:	Basic knowledge of animal science and behaviour.	
Objectives:	This course develops concepts in the behaviour of animals such underlying genetic and molecular mechanisms of behaviour as w importance in the animal kingdom	
Content:	Module 1 Introduction to Ethology :Social Behaviour:Parental care- Types, parent offspring conflict, Sexual strategies, mating types and	04 hrs
	Courtship, Aggression and territory Communication in animals:Auditory, Echolocation, Infra and ultra sounds, Tactile, Visual, Pheromones- in vertebrates and	04 hrs
	invertebrates, Language of honey bees-circle and waggle dance Feeding strategies: Heterotrophs, Parasitic, Saprophytes, Commensalism, mutualism, Coprophagy and Hematophagy	04 hrs
	Module 2:LearningandImprinting:Introductionand	04 hrs
	definitions, Habituation, conditioning. Trial and error, Imprinting, Neural mechanism of learning.	
	Socio-biology: Introduction- definition, WO Wilson, Richard Dawkins, WD Hamilton, Units of Socio-biology. Hamilton's theory and Altruism, cooperation, reciprocation and Eusociality. Jane Goodall, Dian Fossy; Properties, advantages of a social group, Social organisation in primates.	08 hrs
Pedagogy:	Lectures/ tutorials/assignments/self-study	
Learning Outcome:	 Understand the genetic and molecular mechanisms underlying behaviour. Gain insight on the different types of behaviours used for survival in the animal kingdom 	
References /Reading	 Alcock, J, Animal Behavior, Sunderland Sinauer Associates Bonner JT, Evolution of Culture in Animals, Princeton Univ Press. New Jersey Ehrman L and Parsons PA, The Genetics of Behavior, Sinauer Associates, Massachusetts. Halliday T, Sexual Strategies, Oxford University Press, Oxford. Lythgoe, JN, The Ecology of Vision, Clarendon press, Oxford McFarland D, Animal Behavior, ELBS Longman Publ. London Animal Behaviour by. Reena Mathur, Rastogi Publication, Meerut-New Delhi. 	