

Lesson Plan for Course: DSE Code..... ZOOADSE01T ... Credit.....4

- Course coordinator:.....RAJASHREE MALLICK.....
- Course Outcome
 - ✓ CO1: Upon completion the course the students will learn different types of animal behavior and its application
 - ✓ CO2: Understand processes of chronobiology in animal world
 - ✓ CO3: Learn about biological rhythm.
 - ✓ CO4 : Enhancing their observation power and analysis ability.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
Jul				
28th	Unit 1: Introduction to Animal Behaviour	RAJASHREE MALLICK	8	Online using google meet
29th	A brief history of animal behaviour studies including the works of Fabre, Darwin, Von Frisch, Lorenz, Tinbergen,	RM		Online using google meet
30th	A brief history of animal behaviour studies including Jane Goodall, Biruté Galdikas, Dian Fossey, Salim Ali, Gopal Bhattacharyya, M. K. Chandrashekhar, Raghavendra Gadagkar	RM		Online using google meet
Aug				
4th	The objectives of modern animal behaviour studies: Tinbergen's four questions	RM		Online using google meet
5th	Methods of studying behaviours: Observation vs Watching	RM		Online using google meet
6 TH	Ad libitum observations, Focal animal studies, Instantaneous scan, etc.	RM		Online using google meet
12 th	Class exam	RM		Online using google meet
13th	Branches of Animal Behaviour Studies	RM		Online using google meet
18th	Unit 2: Behaviours of Individuals	RM	12	Online using google meet
19th	Practical	RM		Making a project with online small group
20th	Class exam	RM		Online using google meet
21th	Reflexes and Orientations	RM		Online using google meet
26th	Reflexes and Orientations	RM		Online using google meet
27 th	Exam	RM		Online using google meet
Sep				Online using google meet

3rd	Instinct	RM		Online using google meet
8th	Learning: Imprinting and other Programmed Learning	RM		Online using google meet
9th	Habituation, Innovations	RM		Online using google meet
10th	Practical	RM		Online demonstration using google meet
15th	Cultural Transmission / Social Learning	RM		Online using google meet
16th	Practical	RM		Online using google meet
22th	Unit 3: Social and Sexual Behaviour	RM	9	Online using google meet
23th	Concept of Sociality, Types of animal Society with examples	RM		Online using google meet
24th	Altruism	RM		Online using google meet
29th	Communications in animals- different types	RM		Online using google meet
30th	Insects' society with Honey bee as example	RM		Online using google meet
Oct				
1st	Foraging in honey bee and advantages of the waggle dance.	RM		Online using google meet
5th	Sexual Behaviour: Asymmetry of sex,	RM		Online using google meet
6th	Sexual dimorphism, Mate choice, Intra-sexual selection	RM		Online using google meet
7th	Inter-sexual selection (female choice), Sexual conflict in parental care	RM		Online using google meet
13th	Unit 4: Introduction to Chronobiology 1. Historical developments in chronobiology	RM	4	Online using google meet
14th	Biological oscillation: the concept of Average, amplitude, phase and period	RM		Online using google meet
	Assessment: Mid-term Test	RM		Online using google meet
				Online using google meet
15th	Biological oscillation: the concept of Average, amplitude, phase and period	RM		Online using google meet
20th	Adaptive significance of biological clocks	RM		Online using google meet
Nov				
18 th	Unit 5: Biological Rhythm Types and characteristics of biological rhythms	RM	11	Online using google meet

19 th	Short- and Long- term rhythms; Circadian rhythms; Tidal rhythms and Lunar rhythms	RM		Online using google meet
24 th	Concept of synchronization and masking	RM		Online using google meet
25 th	Photic and non-photic zeitgebers	RM		Online using google meet
26 th	Practical	RM		Online using google meet
Dec				Online using google meet
1 st	Practical	RM		Online using google meet
2 nd	Circannual rhythms	RM		Online using google meet
3 rd	Photoperiod and regulation of seasonal reproduction of vertebrates	RM		Online using google meet
8 th	Practical	RM		Online using google meet
9 th	Role of melatonin	RM		Online using google meet
10 th	Practical	RM		Online using google meet
			Total 44	

Resources :

1. Books: An Introduction to Animal Behaviour by Manning and Dawkins; 5th Ed. Cambridge Univ. Press
2. Animal Behavior_ An Introduction to Behavioral Mechanisms, Development, and Ecology
3. Other resources : Wikipedia
4. PPT.