Course Report
(Bachelor)

Course Title:	**Animal Behaviour and Environment**
Course Code:	**EVS 1018**
Program:	**Environmental Science**
Department:	**Biology**
College:	**Science**
Institution:	**Imam Mohammad Ibn Saud Islamic University**
Version:	**1**
Last Revision Date:	**-**

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A. General information about the course:

1. Course Identification

1. Credit hours: 2 (2 lectures + 0Lab)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☐ Required		☒ Elective		
3. Level/year at which this course is offered: (Not determined)					
4. Course General Description:					
The course is designed to study how the animals are related to each other as well as to their environment. The activities of animals performed during their lifetime including locomotion, feeding, breeding, capture of prey, avoidance of predators, and social behaviour are also focused. The course emphasizes that animals send signals, respond to signals or stimuli, carry out maintenance behaviour, make choices, and interact with one another.					
5. Pre-requirements for this course (if any)**:**					
EVS1110 Fundamentals of Environmental Science EVS1111 Basics of Biology					
None					
7. Course Main Objective(s):					
• To define what Animal Behavior and environment mean • To identify the historical development of Animal Behavior and Environment • To know the importance of studying the subject matter of Animal Behavior and its Environment. • To acquaint students with the importance of the animal behavioural study. • To acquaint students with types of animal behaviour. • Natural and vital factors affecting the behaviour of animals.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	√	100%
2	E-learning		
3	Hybrid • Traditional classroom • E-learning	-	-
4	Distance learning	-	-

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	
3.	**Field**	0
4.	**Tutorial**	0
5.	**Others (specify)**	0
Total		30

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Explain the fundamental concepts and methodology of animal behaviour and environment.	K1	Lecture and take-home research assignment	Quizzes, midterm exams and final exam
1.2	Outline the types of animal behaviour and the scope and its function within the Environment.	K2	Lecture and take-home research assignment	Quizzes, midterm exams and final exam
1.3	Discuss the Communication between animals from different communities, and the chemical communication through Pheromones, and how to communicate with	K3	Lecture and take-home research assignment	Quizzes, midterm exam and final exam

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	each other within their original Environment.			
2.0	**Skills**			
2.1	Evaluate animal behaviour within its Environments.	S1	Laboratory and take-home research assignment	Lab reports & activity and Lab exam
2.2	Analyze behavioural data by using the appropriate statistical analytical methods	S2	Laboratory and take-home research assignment	Lab reports & activity and Lab exam
2.3	Perform research work by employing the proper methods and techniques.	S3	Laboratory and take-home research assignment	Lab reports & activity and Lab exam
3.0	**Values, autonomy, and responsibility**			
3.1	Show the ability to work in a team to conduct a specific project and solve problems.	V1	Lecture, laboratory and take-home research assignment	Quizzes, midterm exam, Lab reports, project presentations, Lab exam and final exam
3.2	Demonstrate independence to study different kinds of animal behaviour and its interaction with the surrounding environment.	V2	Lecture, laboratory and take-home research assignment	Quizzes, midterm exam, Lab reports, project presentations, Lab exam and final exam
3.3	Participate in scientific meetings and communicate specialized data via different modes.	V3	Lecture, laboratory and take-home research assignment	Quizzes, midterm exam, Lab reports, project presentations, Lab exam and final exam

C. Course Content

No	List of Topics (Lectures)	Contact Hours
1.	Introduction to Animal Behavior and Environment	4
2.	Development of Animal Behavior	4
3.	Mechanism of Animal Behavior: Proximate and Ultimate Causes	4
4.	Animal Maturation Instinct/Learning Interactions.	4
5.	The Animal Responses to its Environment Social Behavior: Mating	2
6.	Classical Conditioning and Instrumental Conditioning	2
7.	Physiological and genetic effects on animal behavior Control of Behavior (Nervous system & Endocrine system).	2
8.	Animal Communication communication by pheromones Pattern of Sexual Behavior	4
9.	Behavioral Ecology (Habitat selection Foraging Behavior)	2
10.	Homing & Navigation Biological Clocks	2
Total		30

No	List of Topics (Lab)	Contact Hours
1.	Introduction to animal behavior	2
2.	Experimenting with the cockroach's behavior in cleaning its antennae	2
3.	Experimenting with the behavior of the flour beetle in choosing the appropriate environment	4
4.	Experiment with the behavior of fish in attraction to their own species	2
5.	Experimenting with the behavior of fish in attracting towards number during migration	4
6.	Experimenting with the behavior of mice walking on edges, upside down surfaces, and walls	4
7.	An experiment measuring the balance behavior of mice using an electronic spinning wheel	4
8.	Mice behavior in – Forced swim test & - Tail suspension	4
Total		24

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm exam 1	5th week	20%
2.	Midterm exam 2	10th week	20%
3.	Quizzes, Participation, Attendance, Assignments, Essays	Throughout the semester	20%
6.	Final Exam	15th week	40%
Total			**100%**

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	- Nicholas B. Davies. 2012. An Introduction to Behavioural Ecology. Wiley-Blackwell. - Shawn Nordell 2013. Animal Behavior: Concepts, Methods, and Applications. Oxford University Press.
Supportive References	- Michael D. Breed. 2015. Animal Behavior. Academic Press
Electronic Materials	• Saudi Digital Library https://www.sdl.edu.sa/SDLPortal/Publishers.aspx http://www.animalbehavior.com
Other Learning Materials	Videos, slides and presentations that are available with the instructor.

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms and laboratories

Items	Resources
Technology equipment (projector, smart board, software)	Projector and smartboard
Other equipment (depending on the nature of the speciality)	Equipment related to investigation of animal behaviour

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Direct
Effectiveness of Students assessment	Program leader	Direct
Quality of learning resources	Peer reviewer	Indirect
The extent to which CLOs have been achieved	Program leader	Direct
Other	-	-

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**Biology Department Council**
REFERENCE NO.	**2**
DATE	**21/02/1446 H**