هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-153

Course Specification
(Bachelor)

Course Title:	**Animal Biology**
Course Code:	**2052101-3**
Program:	**Bachelor in Biotechnology**
Department:	**Biotechnology Department**
College:	**College of Science**
Institution:	**Taif University**
Version:	**V4**
Last Revision Date:	**4 /1445 – 11/2023**

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A. General information about the course:

1. Course Identification

1. Credit hours:					
3 (2 Lecture, 1 Lab)					
2. Course type					
A.	☐ University	☐ College	☒ Department	☐ Track	☐ Others
B.	☒ Required		☐ Elective		
3. Level/year at which this course is offered: (7th level/4th year)					
4. Course General Description					
This course deals with studying the basics of taxonomy, anatomy and physiology of animal kingdom. A special consideration will be given to the main biological processes by studying the structure and functions of organs and systems governing them. These include digestive processes; respiration; circulation; excretion; nervous system; locomotion system; endocrine gland system and reproduction. A brief topic about the applied significance of selected animal species will be also concerned.					
5. Pre-requirements for this course (if any)**:**					
General Biology (201104-4)					
6. Co-requirements for this course (if any):					
NA					
7. Course Main Objective(s):					
By the end of this course the student should be able to: • Realize the general features and taxonomy of animals. • Identify the basic principles of anatomy, physiology, reproduction in animals (protozoa, invertebrates, and vertebrates). • Apply techniques to study, develop and conserve animals in their natural habitats and reserves. • Understand the clinical and economic significance of different animal species.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	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**	**15**
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		**45**

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	Describe basics of general characters of animals.	K 1	Lecture	Written Exam
1.2	Outline the differences between vertebrates and invertebrates.	K 1	Lecture, Project	Written Exam
1.3	Memorize anatomy and its application in animal classification.	K 3	Lecture	Written Exam
2.0	**Skills**			
2.1	Evaluate the structural-functional relationships of animals	S 1	Discussion	Reports
2.2	Analyze the factors governing locomotion; digestive processes; respiration; circulation; excretion & homeostasis, and reproduction.	S 1	Project	Written Exam
3.0	**Values, autonomy, and responsibility**			
3.1	NA	NA	NA	NA

C. Course Content

No	List of Topics	Contact Hours
1	General characters of animals and animal-related organisms (protozoa)	2
2	Animals: Taxonomy and Morphology Part 1: protozoa and invertebrates	2
3	Animals: Taxonomy and Morphology Part 2: vertebrates	4
4	Organization of animal's body: cells, tissues, organs, and systems	4

5	Digestive system, and digestion in different animals	2
6	Respiratory system, and respiration in different animals	2
7	Circulatory system, circulation, and blood in different animals	2
8	Excretory system, excretion, and homeostasis in different animals	2
9	Animal body control Part 1: Nervous system and neural control	2
10	Animal body control Part 2: Endocrine system and hormonal control	2
11	Locomotory system, and locomotion	2
	Integumentary system in different animals	2
12	Reproduction, and fertilization in different animals	2
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam	Week 7	20%
2.	Periodical exam	Week 10	10%
3.	Report	Week 11	10%
4.	Practical Exam	Week 15	20%
5.	Final Exam	Week 16	40%

*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	1. Stephan A. Miller & John P. Harley (2015): Zoology 10th Ed: Comprehensive Guide to Animal Life, McGraw Hill
Supportive References	Richard Jurd (2003): Instant Notes in Animal Biology, Taylor & Francis.
Electronic Materials	https://animalia.bio/ ADW: Home (animaldiversity.org)
Other Learning Materials	Computer-based programs/CDs, educational videos

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	1. One classroom for 3 hours a week and one laboratory for 3 hours a week with an internet facility.
Technology equipment (projector, smart board, software)	1. Data show and Smart board

Items	Resources
Other equipment (depending on the nature of the specialty)	1. **Dissecting tools.** 2. **Microscopes.** 3. **Reagents and glassware for histology works.**

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	**Peer Review, Students**	**Direct (Independent Reviewer), Indirect (survey)**
Effectiveness of Students assessment	**Faculty members**	**Direct (Random Correction)**
Quality of learning resources	**Students**	**Indirect (survey)**
The extent to which CLOs have been achieved	**Faculty members**	**Direct & Indirect**
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**Department council**
REFERENCE NO.	**6**
DATE	**5/11/2023**