

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Vertbrates
Course number	BIOL3310
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

1 -	Descibe features of vertebrates including cordate taxa such as tunicates and cephalochordates
2 -	Discuss the basics of life processes of vertebrates including movement, body support, homeostasis .circulation, digestion, excretion, and development.
3 -	Discuss ecology, behaviour, and diversity in relationship to their survival and dominance
4 -	Introduce systematic classification of different cordate classes .
5 -	The adaptation of wild animals to their natural habitats are also considered

#### Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> <li>* understand the systematic position of the organisms</li> <li>* describe the general characteristic of each class</li> <li>* recognize the structure of body system</li> </ul>
Intellectual Skills	<ul style="list-style-type: none"> <li>* in the end of this course the students will be able to differentiate between the system organelles</li> <li>* evaluate the effect of the environment of animals and differentiate between animal g</li> <li>* distinguish between insect and other animal as arthropods</li> </ul>
Professional Skills	<ul style="list-style-type: none"> <li>* dissect different cordate animal</li> <li>* compare between animals</li> </ul>
General Skill	<ul style="list-style-type: none"> <li>* at the end of the course students will be able to plane, organise, communicate effectively</li> <li>* search for update information and recent techniques of the interested specific area</li> <li>* work effectively both in team and independently</li> </ul>

## Course Contents

- 1 - Introduction
- 2 - protochordates ( classes ascidiacea, thaliacea and larvacea) studying some body systems
- 3 - cephalochordates ;general characters external features studying some body systems
- 4 - cyclostomata; general characters , studying some body systems
- 5 - cartilaginous fish (dog fish) osteichthyes
- 6 - amphibians: classification, general characters , some body system
- 7 - reptiles; classification, general characters , some body system
- 8 - aves: classification, general characters
- 9 - aves: digestion system , urinogenital , skeletal.
- 10 - mammals: classification, general characters , some body system

## Teaching and Learning Methods

- 1 - Lecture supported dialogue and discussion
- 2 - Presentation of samples
- 3 - Display using available devices
- 4 - Field trips

## Teaching and Learning Methods for the Disabled Students

- 1 - Additional lecture
- 2 - Cooperation education

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First mid-term exam		20
Second mid-term exam		20
Attendance and discussion		10
Final exam		50

## Books and References

Course note	Notes done by the lecturer
Essential books	Vertebrate Life, 8th ed., by F. Harvey Pough, Chris M. Janis, and John B. Heiser (2009). Benjamin Cummings Publ. Lab Manual: Vertebrate Dissection, 9th ed., by Dominique G. Homberger and Warren F. Walker (2003). Saunders, New York.
Recommended books	Puranik, P. G. and Thakur, R. S. (1982): A text book of chordate zoology, 291p. Chiasson, R. B. and Radke, W. J. (1993): Laboratory anatomy of the vertebrates, 224p.