Course Specifications

Course Title:	**Animal Modern Taxonomy**
Course Code:	**ZOO 305**
Program:	**Zoology**
Department:	**Zoology**
College:	Science
Institution:	**King Saud University**

Table of Contents

A. Course Identification

1. Credit hours: 2 (1+0+2)	

2. Course type

a. University ☐   College ☐   Department ☑   Others ☐

b. Required ☐   Elective ☐

3. Level/year at which this course is offered: level 4

4. Pre-requisites for this course (if any)**:** General zoology (103 Zoo)

5. Co-requisites for this course (if any)**: None**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	14	50%
2	Blended		
3	E-learning		
4	Correspondence		5%
5	Other		15%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	28
2	Laboratory/Studio	14
3	Tutorial	
4	Others (specify)	
	Total	42
Other Learning Hours*		
1	Study	
2	Assignments	
3	Library	
4	Projects/Research Essays/Theses	
5	Others (specify)	
	Total	

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

2. Course Main Objective

- History and general principle of taxonomy
- The objectives of taxonomy and contributions of Taxonomy to Biology.
- Theories of Taxonomy.

- **Animal population and their Diversity, Dynamic of Reproductive Isolation.**
- **Taxonomic characters and procedures of classification.**
- **Presentation of the Taxonomic findings**
- **Principles and interpretation of Zoological Nomenclature.**

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge:**	
1.1	**Define methods of studying Taxonomic problems.**	
1.2	**Recognize biological diversity, based on taxonomy.**	
1.3	**Using taxonomic keys to classify taxonomic findings.**	
2	**Skills :**	
2.1	**Record and describe samples of various species.**	
2.2	**Finding out individual variations within species.**	
2.3	**Use computers and internet to aid in data analysis.**	
3	**Competence:**	
3.1	**Ability to describe, identify and classify field specimens.**	
3.2	**Ability to recognize the prevailing animal species in the environment.**	

C. Course Content

No	List of Topics	Contact Hours
1	**Principles of animal taxonomy and its application.**	**2**
2	**Methods of Taxonomy.**	**2**
3	**Theories of taxonomy**	**2**
4	**Taxonomic variations within individual And population.**	**1**
5	**Steps for taxonomic preparation.**	**1**
6	**Collecting and animal collections**	**2**
7	**Keys and statistical analysis.**	**2**
8	**International rules of Zoological nomenclature.**	**1**
	Total	**13**

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1	Define methods of studying Taxonomic problems.	• In-class lecturing (using PowerPoint and illustrations) • Laboratory practice and stereoscopic examination. (Conducting experiments and writing reports).	• Major and final exams • Evaluation of lab reports and examinations • Evaluation of Activities related to implement
1.2	Recognize biological diversity, based on taxonomy.		
1.3	Using taxonomic keys to classify taxonomic findings.		

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		• Activities and field sampling techniques	taxonomic procedures
2.0	Skills		
2.1	Write , describe and compare characters of different species.	• Field training. • Laboratory training. • Activities and use of taxonomic procedures	• Major and final exams • Evaluation of lab reports and examinations • Evaluation of Activities related to taxonomic tests.
2.2	Evaluate individual variations within species.		
2.3	Prepare computers for data analysis.		
3.0	**Competence**		
3.1	Ability to acquire principles of classifying animal specimen.	Power point presentations. Taxonomic illustration. Performing field trips for specimen collection.	Assessment of group projects. Assessment of projects conducted individually.
3.2	Develop skills to identify specimen following taxonomic keys.		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	**Class activates (activities and homework)**	**3-6-9-12**	**15%**
2	**Midterm Exam.**	**9**	**15%**
3	**Lab. Homework**	**12**	**5%**
4	**Lab. Exam.**	**13**	**25%**
5	**Final Exam.**	**15**	**40%**

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:
- Direct supervision by staff member over lab. Sessions.
- Office hours 7 hr/ Week.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	- **Simpson, G. G. (2012). Principles of animal taxonomy. Scientific Publishers (INDIA).** - **Kapoor, V. C. (2001). Theory and practice of animal taxonomy. Oxford and & IBH Publishing** **Co. PVT. LTD. New Delhi, India.** - **Goto, H.E. 1982 Animal taxonomy.**

	- Mayer, E., Linsely, G. and Usinger, R. 1966. Principle of systematic Zoology.
Essential References Materials	**As above**
Electronic Materials	**Websites on the internet that are relevant to the topics of the course**
Other Learning Materials	**Microsoft office package**

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	**Advanced lecture rooms.** **Equipped laboratories.** **Department museum.** **Preservation material and storage facilities in the department.**
Technology Resources (AV, data show, Smart Board, software, etc.)	**Computer room containing at least 50 units**
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	**Computer room containing at least 50 units**

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of Teaching and assessment	Students	Indirect Online questionnaire which is mandatory for each student to be filled at the end of course
Extent of achievement of course learning outcomes	Program leader	Direct Feedback from the students and course reports
Quality of learning resources	Evaluation of the program by the department.	Direct Discussion with group of lecturers who teaches the same courses in the department

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	