



## Course Specifications

<b>Course Title:</b>	<b>Graduation Research Project</b>
<b>Course Code:</b>	ZOO 498
<b>Program:</b>	Zoology
<b>Department:</b>	Zoology
<b>College:</b>	Science
<b>Institution:</b>	King Saud University

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## A. Course Identification

<b>1. Credit hours:</b>	<b>2 (0 +0+ 4)</b>
<b>2. Course type</b>	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> : level 8	
<b>4. Pre-requisites for this course (if any):</b> Finish at least 95 credit hours	
<b>5. Co-requisites for this course (if any):</b> None	

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	Blended		
3	E-learning		
4	Distance learning		
5	Other		

### 7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	
2	Laboratory/Studio	56
3	Tutorial	
4	Others (specify)	
	<b>Total</b>	56

## B. Course Objectives and Learning Outcomes

<b>1. Course Description</b>
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## 2. Course Main Objective

1. What is the main purpose for this course?

- To let student be able to determine the scientific researches in the specialized periodicals.
- Acquaintance with different methods of information collection from different sources.
- The ability to be familiar with designing and executing experiments.
- The ability to collect data
- Discussion of the obtained results and reaching to conclusions and recommendations.
- Writing and submitting the final report.

## 3. Course Learning Outcomes

CLOs		Aligned PLOs
<b>1</b>	<b>Knowledge and Understanding</b>	
1.1	State the methods for selecting specific research project.	K1
1.2	Describe how to collect relevant information used in the project.	K1
1.3	List the requirements needed for executing a research project.	K3
1.4		
<b>2</b>	<b>Skills:</b>	
2.1	Design experiment to verify a hypothesis.	S1
2.2	Justify results obtained from the research project.	S1
2.3	Develop the ability to criticize findings and discuss findings with the supervisor.	S2
2.4	Analyze data obtained from the research project.	S2
<b>3</b>	<b>Values:</b>	
3.1	Ability to present results of work to others.	V1
3.2		

## C. Course Content

No	List of Topics	Contact Hours
1	List of Topics to be Covered	10
2	Subject discussion and collection of relevant literature	5
3	Preparing and finalizing the proposal	35
4	Field and laboratory work	5
5	Analysis of data	5
6	Writing up the review and the materials and methods	10
7	Writing up the results and discussion	5
8	Finalizing the Thesis	10
9	Preparation for the Oral and Poster presentations	4
10	The oral presentation and discussion with the examination committee	89
11	Total (Actual) work load	
<b>Total</b>		

## D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge and Understanding</b>		
1.1	State the methods for selecting specific research project.	Laboratory practice and microscope examination. (Conducting experiments and writing reports).	Evaluation of lab reports, designing and executing experiments  Evaluation of student activities and data collection.
1.2	Describe how to collect relevant information used in the project.		
1.3	List the requirements needed for executing a research project.		
1.4			
<b>2.0</b>	<b>Skills</b>		
2.1	Design experiment to verify a hypothesis.	Laboratory training on different designing experiments.	Evaluation of lab reports and examinations. Evaluation of student activities and homework. Estimation of the final report.
2.2	Justify results obtained from the research project.		
2.3	Develop the ability to criticize findings and discuss findings with the supervisor.	Using illustrations and power point presentation	
2.4	Analyze data obtained from the research project.		
<b>3.0</b>	<b>Values</b>		
3.1	Ability to present results of work to others.	Close monitoring while performing practical work and data collection Promoting students to submit activities, assignments and writing reports.	Assessment of student cooperation in lab sessions, obtained lab results and final reports. Evaluating the final written reports, activities and results
3.2			

### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Collection of scientific information	3-4-5	20%
2	Executing the practical experiment	6-7-8-9	40%
3	Writing and submitting final report	10-11-12-13	40%
4			
5			
6			
7			
8			

\*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 (supervisor) at the time of laboratory work.
- Office hours 7 hr/ week

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	The required textbook is determined according to the research subject by the instructor.	
<b>Essential References Materials</b>	<b>The periodicals will be determined accordingly.</b>	
<b>Electronic Materials</b>		
<b>Other Learning Materials</b>	<b>Microsoft office package</b>	

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	<b>Equipped laboratories</b>
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

## 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

<b>Council / Committee</b>	
<b>Reference No.</b>	

Date	
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