



T-104  
2022

## Course Specification



Course Title: <b>Graduation Research Project</b>
Course Code: ZOO 498
Program: Zoology
Department: Zoology
College: <b>Science</b>
Institution: King Saud University
Version:
Last Revision Date: 10 March 2024



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## A. General information about the course:

Course Identification	
1. Credit hours:	<b>2 (0 +0+ 4)</b>
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Track <input type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: <b>level 8</b>	
4. Course general Description: Use of scientific periodicals; search for information in various databases; designing and carrying out scientific experiments; data analysis; writing scientific reports.	
5. Pre-requirements for this course (if any): <b>Finish at least 95 credit hours</b>	
6. Co- requirements for this course (if any): None	
7. Course Main Objective(s)	
<ul style="list-style-type: none"> <li>• To let student be able to determine the scientific researches in the specialized periodicals.</li> <li>• Acquaintance with different methods of information collection from different sources.</li> <li>• The ability to be familiar with designing and executing experiments.</li> <li>• The ability to collect data</li> <li>• Discussion of the obtained results and reaching to conclusions and recommendations.</li> </ul>	
Writing and submitting the final report.	

### 1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom		
2.	E-learning		
3.	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>		
4.	Distance learning		



## 2. Contact Hours (based on the academic semester)

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

## 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	<b>Knowledge and understanding</b>			
1.1	State the methods for selecting specific research project.	K1	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.	K1		
1.3	List the requirements needed for executing a research project.	K3		
2.0	<b>Skills</b>			
2.1	Design experiment to verify a hypothesis.	S1	Laboratory training on different designing experiments.  Using illustrations and power point presentation	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.	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		
3.0	<b>Values, autonomy, and responsibility</b>			



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.1	Ability to present results of work to others.	V1	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				

## C. Course Content

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

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	<b>Collection of scientific information</b>	<b>3-4-5</b>	<b>20%</b>
2.	<b>Executing the practical experiment</b>	<b>6-7-8-9</b>	<b>40%</b>
3.	<b>Writing and submitting final report</b>	<b>10-11-12-13</b>	<b>40%</b>
...			



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

### 2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<b>Equipped laboratories</b>
Technology equipment (projector, smart board, software)	
Other equipment (depending on the nature of the specialty)	

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect Online questionnaire which is mandatory for each student to be filled at the end of course
Effectiveness of students assessment	Program Leader	
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
The extent to which CLOs have been achieved	Program leader	Direct Feedback from the students and course reports
Other		

**Assessor** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)





## G. Specification Approval Data

COUNCIL /COMMITTEE	ALL SPECIALIZED GROUP
REFERENCE NO.	
DATE	

