



Course Specifications

Course Title:	Final Year Project
Course Code:	23074492-5
Program:	BSc Biology.
Department:	Biology
College:	Aljumum University College
Institution:	Umm Al-Qura university

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A. Course Identification

1. Credit hours: 5 hours
2. Course type a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" 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: 4 th year / level 8
4. Pre-requisites for this course (if any):
5. Co-requisites for this course (if any):

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Writing a literature review	All weeks	30%
2	Participation / discussion	All weeks	25%
3	Writing a proposal for a research project	All weeks	45%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	28
2	Laboratory/Studio	42
3	Tutorial	
4	Practical/Field work/Internship	
5	Others (specify)	
	Total	
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

At the end of this course student should be able to evaluate the different approaches used and suggest future experiments or alternative strategies for addressing the problem. The student should be able to conversant with writing a scientific report and presenting scientific data in a clear accessible manner. The skills learnt will be applicable to problem solving exercises encountered in all types of employment.

2. Course Main Objective

After completing this course student should be able to:

- Gain practical and theoretical knowledge about particular area of biology.
- Work independently on the research project under the supervision of academic member of staff, and should be able to design experiments to answer the particular question posed, and critically analysed the results. There will be scope for initiative in this element of the project.
- Be able to set the work in the context of work done by other experimentalists, and provide a concise summary of relevant literature.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Upon successful completion of this course The student will be able to:	
1.2	- Gain practical and theoretical knowledge about particular area of biology.	
1.3	- Work independently on the research project under the supervision of academic member of staff, and should be able to design experiments to answer the particular question posed, and critically analysed the results. There will be scope for initiative in this element of the project.	
1...	- Be able to set the work in the context of work done by other experimentalists, and provide a concise summary of relevant literature.	
2	Skills :	
2.1	Cognitive Skills:	
	Displaying and organizing different types of data. Representing the data.	
2.2	Interpersonal Skills and Responsibility At the end of the course, the student will be able to:	
	- Gain practical and theoretical knowledge about particular area of biology.	
	- Work independently on the research project under the supervision of academic member of staff, and should be able to design experiments to answer the particular question posed, and critically analysed the results. There will be scope for initiative	

CLOs		Aligned PLOs
2.3	<p>in this element of the project.</p> <ul style="list-style-type: none"> 3. Be able to set the work in the context of work done by other experimentalists, and provide a concise summary of relevant literature. <p>Communication, Information Technology and Numerical Skill At the end of the course, the student will be able to:</p> <ol style="list-style-type: none"> Enhancing the ability of students to use computers and internet. 	
2.4	<ol style="list-style-type: none"> Interpret biostatistics data Present biochemical data. <p>Know how to write a report. Psychomotor Skills (if applicable)</p>	
3	Competence:	
3.1	- Developing oral presentations.	
3.2	- Communicating personal ideas and thoughts.	
3.3	- Work independently and as part of a team to finish some assignments.	
3...	- Communicate results of work to others	

C. Course Content

No	List of Topics	Contact Hours
1		
2		
3		
4		

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	Upon successful completion of this course the student will be able to:	-At the end of the program, students will be divided into groups for seminar presentation on important areas of the course to assess their understanding and comprehension of the course.	-Submission of a literature review -Submission of research report
1.2			
...	<ul style="list-style-type: none"> Gain practical and theoretical knowledge about particular area of biology. Work independently on the research project under the supervision of academic member of staff, and should be able to design experiments to answer the particular question posed, and critically analysed 	- All students will be involved in on-line	

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	<p>the results. There will be scope for initiative in this element of the project.</p> <ul style="list-style-type: none"> - 3. Be able to set the work in the context of work done by other experimentalists, and provide a concise summary of relevant literature 	<p>learning process and each student is required to create an E-mail address to facilitate student web interactions.</p> <ul style="list-style-type: none"> - Using images and movies - Encouraging students to collect the new information about what the new in biochemistry - Enable the reference books and scientific sites concerning biology in internet. 	
2.0	Skills		
2.1	<p>Cognitive Skills Having successfully completed the course students should be able to:</p> <ul style="list-style-type: none"> - Displaying and organizing different types of data. - Representing the data. 	<ul style="list-style-type: none"> - Reading relevant research and review articles - Brain storming - Discussion. 	<ul style="list-style-type: none"> - Submission of a literature review - Submission of research report
2.2	<p>Interpersonal Skills & Responsibility</p> <ol style="list-style-type: none"> 1. Gain practical and theoretical knowledge about particular area of biology. 2. Work independently on the research project under the supervision of academic member of staff, and should be able to design experiments to answer the particular question posed, and critically analysed the results. There will be scope for initiative in this element of the project. 3. Be able to set the work in the context of work done by other experimentalists, and provide a concise summary of relevant literature. 	<ul style="list-style-type: none"> - Lab work. - Case Study. - Active learning. - Small group discussion - Cooperative learning and application of scientific method in thinking the scientific problem solving. - Work as part of a team. 	<ul style="list-style-type: none"> - Evaluate the efforts of each student in preparing the report. - Evaluate the scientific values of reports. - Evaluate the work in team - Evaluation of the role of each student in lab group assignment - Evaluation of students presentations -
2.3	<p>Communication, Information Technology, Numerical</p> <ol style="list-style-type: none"> 4. Enhancing the ability of students 	<ol style="list-style-type: none"> 1. Homework (preparing a report on 	<ol style="list-style-type: none"> 1. Evaluation of presentations

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	to use computers and internet. 5. Interpret biostatistics data 6, Present biochemical data. Know how to write a report.	some topics related to the course depending on web sites). 2. Seminars presentation Field visits to factories	2. Evaluation of reports Practical exam
2.4	Psychomotor: -Enhancing the ability of students to use computers and internet to prepare a research article. - Interpret the laboratory data.	Follow up the students in lab and during carryout all the laboratory experiments	-Giving additional marks for the students they have accurate laboratory results and good seminar presentation -Practical exam.
3.0	Competence		
3.1	Use information and communication technology	Oral presentations. <input type="checkbox"/> Internet search assignments and essays. <input type="checkbox"/> Incorporating the use and utilization of computer in the course requirements. <input type="checkbox"/> Students will be asked for delivering a summary regarding certain topics related to the course.	Evaluation of student essays and assignments. <input type="checkbox"/> Evaluating the laboratory written reports. <input type="checkbox"/> Marks given to for good reports and presentations <input type="checkbox"/> Evaluating during the discussion in lecture and reports. Part of the grad is put for student's written participation
3.2	Use IT and communication technology in gathering and interpreting information and ideas		
...	Use the internet as a means of communication and a source of information.		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Writing a literature review	All weeks	30%
2	Participation / discussion	All weeks	25%
3	Writing a proposal for a research project	All weeks	45%
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 :

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	
Essential References Materials	
Electronic Materials	
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) 1. Accommodation (Lecture rooms, laboratories, etc.) <ul style="list-style-type: none"> ● Class room is already provided with data show The area of class room is suitable concerning the number of enrolled students (68) and air conditioned.
Technology Resources (AV, data show, Smart Board, software, etc.)	2. Computing resources <ul style="list-style-type: none"> ● Providing class rooms with computers and labs with data show data show, Smart Board
Other Resources (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

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	

Head of Department



Dr. Wessam M. Filfilan

Stamp

