



## MODULE DESCRIPTION FORM

Module Information			
Module Title	General Biology		
Module Type	Optional	Theory, Lecture Lab	
Module Code	Zu-Sc-CRGENBIO	Tutorial Practical Semina	
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	1
Administering Department	In hour unite	College	Science
Module Leader	Saif Y.Hasan	e-mail	Saif.hasan@alzahu.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	M.Sc.Microbiology
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	12.1.2026	Version Number	1

Relation with other Modules			
Prerequisite module	No	Semester	-
Co-requisites module	No	Semester	-



### Module Aims, Learning Outcomes and Indicative Contents

<p>Module Objectives</p>	<p>Contributed in general education of student through scientific research and acquired understanding biology science            Push the student to scientific research through            1-individual study and self-improvement            2-Team work            3-work according to guideline of courses            4- development understanding biological principle            5- improvement attention and development evaluation biological diversity            6- Create awareness for application biological knowledge in community.</p>
<p>Module Learning Outcomes</p>	<p>With end of the course, the student will able to            1- Take complete information about scientific guideline.            2- Detection cellular organelle's function.            3- Description cell membrane and transportation mechanism.            4- Differentiation between carbohydrate, fat, proteins and nuclear materials.            5- Identification the chemical variation and description the enzyme building and enzyme role in metabolic process            6- Chromosomal identification and differentiation it from chromatins neatwork.            7- Mitosis meiosis mechanism.            8- Animal and plant tissue identification            9- Animal and plant culturing and differentiation between them.            10- Cellular respiration and metabolism identification            11- Eukaryotic and prokaryotic identification            12- Bacterial and fungi isolation identification and staining .</p>



Indicative Contents	<p>The guideline contains</p> <ol style="list-style-type: none"><li>1-Explain the molecular and biological concept of life.</li><li>2-The biological concept of life activities</li><li>3-Detection characted approach for diver's creature.</li><li>4-Histological form of tissue cartilage and bone</li><li>5-Energy conducting system in life cell</li><li>6-Genetic principle understanding</li><li>7-infectious and immunity understanding</li><li>8-classification the life creature according to cell level</li><li>9- The biological eco system in certain environment</li><li>10-Plant tissue and photosynthesis</li></ol>
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Student Workload (SWL)			
Structured SWL (h/sem)	65	Structured SWL (h/w)	4.3



Unstructured SWL (h/sem)	60	Unstructured SWL (h/w)	4
Total SWL (h/sem)	125 hours		

### Learning and Teaching Strategies

Strategies	Ability to , problem detection , prospective detection , development of hypothesis , planning and application tests, using palliation guiling according to need , Modulation the origin plan according to guideline , Considering the reference mistake in tests , use suitable instrument in test .
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### Module Evaluation

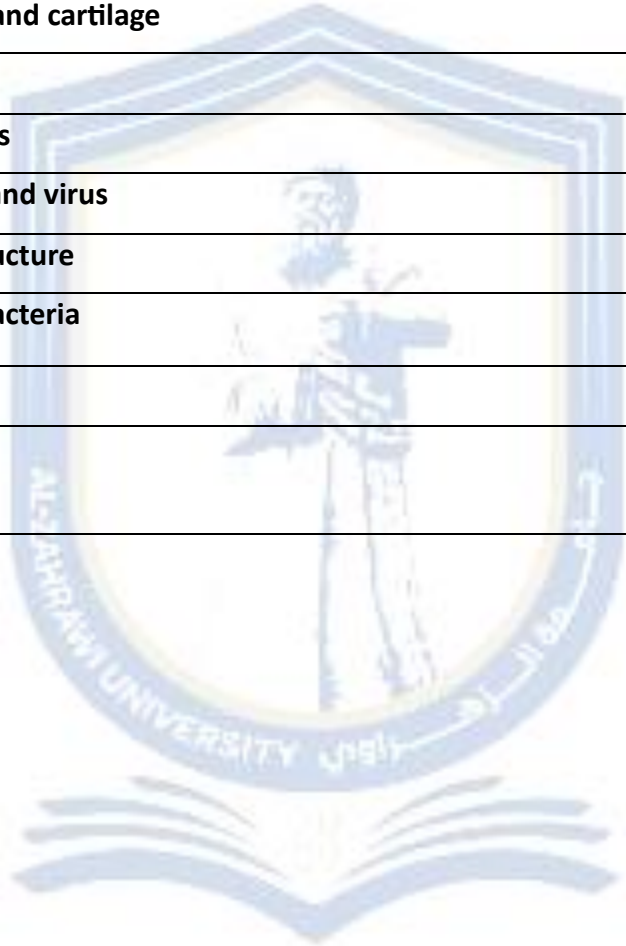
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
<b>Formative assessment</b>	<b>Quizzes</b>	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	<b>Assignments</b>	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	<b>Projects / Lab.</b>	1	-	Continuous	All
	<b>Report</b>	1	10% (10)	13	LO # 5, 8 and 10
	<b>Seminar</b>	1	10% (10)	7	LO # 1-7
<b>Summative assessment</b>	<b>Midterm Exam</b>	2 hr	10% (10)	15	All
	<b>Final Exam</b>	3 hr	50% (50)	5, 10	All
<b>Total assessment</b>			100% (100 Marks)		

### Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Introduction to biology
Week 2	Cell formwork



Week 3	Plasma membrane
Week 4	Organic compounds, carbohydrate, fat, protein nucleic acid .
Week 5	<b>Energy and metabolism</b>
Week 6	<b>Nucleic acid and genetic</b>
Week 7	<b>Chromosome</b>
Week 8	<b>Cell division (mid exam)</b>
Week 9	<b>Bone tissue and cartilage</b>
Week 10	<b>Plant tissue</b>
Week 11	<b>Photo synthesis</b>
Week 12	<b>Procaryotic and virus</b>
Week 13	<b>Bacterial structure</b>
Week 14	<b>G+ And G- Bacteria</b>
Week 15	<b>Fungi</b>
Week 16	<b>Final exam</b>





## Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	<p>Mader, S. S. (2004). Human biology. (No Title).</p> <p>Lowe, J. S., &amp; Anderson, P. G. (2014). Stevens &amp; Lowe's Human Histology E-Book: With STUDENT CONSULT Online Access. Elsevier Health Sciences.</p> <p>Weaver, R. (2011). EBOOK: Molecular Biology. McGraw Hill.</p> <p>Alberts, B., Hopkin, K., Johnson, A. D., Morgan, D., Raff, M., Roberts, K., &amp; Walter, P. (2018). Essential cell biology: Fifth international student edition. WW Norton &amp; Company.</p>	
Recommended Texts	<p>Jawetz, M., Melinck, J., Adberg, E. A., Broks, G. O., Butel, J. S., &amp; Ornston, N. L. (2012). Medical Microbiology 25.</p>	
Websites		



	References

### Grading Scheme

Group	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



Name of the Instructor:

Saif Y.Hasan

