MODULE DESCRIPTION FORM

	Module Inform	ation			
Module Title	BIODIVERSITY			Module Delivery	
Module Type	Core learning activity			☑ Theory	
Module Code	BIO1070			□ Lecture ⊠ Lab	
ECTS Credits	5			☐ Tutorial	
SWL (hr/sem)	125			□ Practical□ Seminar	
Module Level	1	Semes	ter of	Delivery	2
Administering Department	SSWR1969, PLPR1966, HOLA1974, FORE1964, FOSC1965, FICR1973, ANPR1964, AGEC1979, AETT1979, AGME1986	Colleg	e AG	AGFO1964	
Module Leader	zwaid fathiy abd Omar Dheyaa Mohammed Asmaa Mohammed Adil Moyassar Mohammed Aziz Nofal Issa Mohammed Taha Mohammed Taki Firas Kadhim Dawoo Aljuboori Khaled Anwer Khaled ALKHALED Talal Saeed Hameed Sumood Husain Ai Al-Hadedy		dr ass mo no tal fir kh sta	zu-kh1985@uomosul.edu.iq dr.omaralmallah@uomosul.edu.iq asmaama@uomosul.edu.iq moyassar aziz@uomosul.edu.iq nofelemh@uomosul.edu.iq tahataqi@uomosul.edu.iq firasaljuboori@uomosul.edu.iq khalid.anwar31@uomosul.edu.iq stalal1982@uomosul.edu.iq sumod husain@uomosul.edu.iq	
Module Leader's Acad. Title	Leader's Acad. Assistant Professor Ouali		ule Leader's Ph.D. ification MSc.		
Module Tutor	Omar Ghiyath al-Din Abdul Ghafoor	e-mail		nar.almzori@uom	osul.edu.iq
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Scientific Committee Approval Date	15/10/2024	Version Number		1.0	

Relation with other Modules				
Prerequisite module	None	Semester		
Co-requisites module	None	Semester		

Module Aims,	Learning	Outcomes and	Indicative	Contents

Module Aims, Learning Outcomes and Indicative Contents				
Module Objectives	 Enable students to appreciate the importance of biodiversity conservation in addressing environmental challenges and climate change. Provide students with fundamental concepts of biological diversity and the role of living organisms in ecosystems. 			
Module Learning Outcomes LOs	The student should be able to: LO#1: Identify classifications of living organisms and patterns of biological diversity in various environments. LO#2: Understand the evolutionary and genetic mechanisms that contribute to the emergence of biodiversity over time. LO#3: Evaluate threats to biodiversity and analyze the impact of human activities on ecosystems. LO#4: Propose suitable strategies for biodiversity conservation and the sustainable use of natural resources.			
Indicative Contents	Indicative content includes the following. Theoretical The course covers fundamental concepts of biological diversity and taxonomic classifications, extending to ecosystem studies and methods for species and habitat conservation, with a focus on current threats and future challenges. Total hrs = 125 = SSWL - (Exam hrs) = 63-3 = 60 hrs (Time table hrs x 15 weeks)			

	Learning and Teaching Strategies استر اتيجيات التعلم و التعليم
	1. (Interactive Lectures) 2. (Project-Based Learning)
Strategies	3. (Case Studies) 4. (Field Trips)
	5. (Group Discussions and Presentations)

Student Workload (SWL)					
Structured SWL (h/sem)	Structured SWL (h/sem) 63 Structured SWL (h/w) 4				
Unstructured SWL (h/sem) 62 Unstructured SWL (h/w) 4					
Total SWL (h/sem)	125				

Module Evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning
					Outcome
	Quizzes	2	10% (10)	4 and 11	LO#1 and LO#2
Formative	Assignments	2	10% (10)	2 and 13	LO#1 and LO#3
assessment	Seminar	1	10% (10)	All	All
	Report	1	10% (10)	14	LO#1, LO#2 and LO#4
Summative	Midterm Exam	2hr	10% (10)	7	LO#1, LO#2 and LO#3
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

	Material Covered
Week 1	Introduction to Biological Diversity
Week 2	Taxonomy and Scientific Nomenclature
Week 3	Genetic Diversity and Evolution
Week 4	Ecological Diversity and Ecosystems
Week 5	Measuring Biodiversity and Its Indicators
Week 6	Factors Affecting Biological Diversity
Week 7	Mid-term Exam
Week 8	Environmental and Economic Value of Biodiversity
Week 9	Current Threats to Biodiversity
Week 10	Species Extinction and Conservation Strategies
Week 11	Biodiversity in Aquatic Ecosystems
Week 12	Biodiversity in Terrestrial Ecosystems
Week 13	Climate Change and Its Impact on Biodiversity
Week 14	Biodiversity and Sustainable Development
Week 15	Natural Resource Management and Sustainable Use
Week 16	Future Directions in Biodiversity Enhancement

	Delivery Plan (Weekly Laboratory Syllabus)			
	Material Covered			
Week 1	Future Directions in B <mark>iodiversity</mark> Enhancement			
Week 2	Collection and Classification of Plant and Animal Samples			
Week 3	Practical Applications of Scientific Nomenclature in the Lab			
Week 4	Genetic Diversity Measurements and DNA Analysis Techniques			
Week 5	Field Survey of Ecosystems (Forest or Agricultural)			
Week 6	Biodiversity Assessment in Soil and Water Samples			
Week 7	Monitoring Environmental Threats (e.g., Pollution and Biological Invasions)			
Week 8	Community Analysis of Biotic Assemblages (Community Analysis)			
Week 9	In-situ and Ex-situ Conservation Techniques (In-situ & Ex-situ)			
Week 10	Studying the Impact of Climate Change on Biotic Communities			

Week 11	Field Visit to High-Biodiversity Areas
Week 12	Data Documentation and Analysis Using Statistical Software
Week 13	Designing Models for Biodiversity Conservation and Sustainable Use
Week 14	Developing Management Plans for Species Protection
Week 15	Presentation and Discussion of Research Findings and Practical Reports

	Learning and Teaching Resources	
	Text	Available in the Library?
Required Texts	Gaston, K. (2010) Chapter 2: Biodiversity. In N.S. Sodhi & P. R. Ehrlich, Conservation Biology for All (pp. 27 - 43). Society for Conservation Biology.	
Recommended Texts		-
Websites	38/4	

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks %	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success Group (50 - 100)	B - Very Good	جيد جدا	80 - 89	Above average with some errors	
	C - Good	ختر	70 - 79	Sound work with notable errors	
(30 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings	
	E - Su <mark>ffici</mark> ent	مقبول	50 - 59	Work meets minimum criteria	
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded	
(0 – 49)	F – Fail	راسب	(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.











