	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science for Women Department of Biology	

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Environmental Sustainability			**Module Delivery**	
Module Type	**Elective**			☒ **Theory** ☐**Lab** ☐**Seminar**	
Module Code	**-**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Type Dept. Code		**College**	Type College Code	
Module Leader	-		**e-mail**		
Module Leader's Acad. Title	Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**	E-mail	
Scientific Committee Approval Date	-		**Version Number**	1.0	

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	none	**Semester**	-
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The course mainly aims to understand environmental sustainability and its importance in our current lives
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1.Knowledge and Understanding the Environmental Sustainability 2.The students learn about environment and ecosystems 3. The students explore the relation human activates and imbalance of ecosystems 3. learning the various methods to maintaining healthy life
Indicative Contents المحتويات الإرشادية	What is environment? Environmental sustainability definition and its history What is the physical environment? What are the pillars of sustainability? Hot topics: global warming, habitat loss, population, biodiversity, sea level rise, deforestation, energy),Environmental sustainability regulations, Environmental sustainability examples, Economic Growth and Environmental Sustainability

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Teaching and Learning Methods 1. Traditional Lectures 2. Using of data show and white board for clarify and detail lectures 3. Directing students to conduct update scientific experiments in Lab. Assessment methods

	1. Seminars and assignments 2. Group discussions 3. Written and oral exam. 4. Quizzes Teaching and Learning Methods Use of different available teaching tools, like schemes, posters, presentation of educational videos related to the physiology subject besides of data show. Assessment methods Participation of students in open discussions , and how they can reacts to oral and editorial questions to assess the extent how much they benefited from the subject and how they can employ it in future in their working life.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	6	20	2, 4, 6, 9, 11 10	LO A and B
	Assignments	3	20	3, 7, 12	LO A and C
Summative assessment	**Midterm Exam**	2 hr	10% (10)	8	LO A and B
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	**Introduction (Present and Past: An introduction to today's major environmental issues and an historical perspective of human interactions with the environment)**
Week 2	**What is environment?** **Environmental sustainability definition and its history** **What is the physical environment?** **What are the pillars of sustainability?**
Week 3	**Ecosystems ; the main components**
Week 4	**The rock cycle; Biogeochemical cycles; Organisms and ecosystems**
Week 5	**Hot topics: global warming, habitat loss, population, biodiversity, sea level rise, deforestation, energy)**
Week 6	**Environmental sustainability regulations**
Week 7	**Environmental sustainability examples** **1. Switch to renewable energy**
Week 8	**Mid-term exam**
Week 9	**Commit to a zero-waste future**
Week 10	**Protect ecosystems**
Week 11	**Conserve water and air**
Week 12	**Reduce emissions of CO2 and efficient waste management**
Week 13	**Sustainable forestry and agricultures**
Week 14	**Natural resource management and invest in new technology**

Week 15	**Economic Growth and Environmental Sustainability**
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	
Week 15	
Week 16	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Weaver, P., Jansen, L., van Grootveld, G., van Spiegel, E. & Vergragt, P. (2000).Sustainable technology development. Greenleaf Publishing: Sheffield, UK.	no

Recommended Texts	A Perspective on environmental sustainability? Edited by Philip Sutton Director-Strategy of Green Innovations http://www.green-innovations.asn.au/ Philip.Sutton@green-innovations.asn.au Version 2.b 12-April-2004	no
Websites	http://www.deh.gov.au/esd/national/nsesd/index.html	

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