



وكالة الجامعة للشؤون التعليمية  
البرامج الدراسية والتطوير

( 5 )

مختصر توصيف المقرر

Biodiversity

التنوع الحيوي	:
BIOL-243	:
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<b>Module Title:</b>	<b>Biodiversity</b>
<b>Module ID:</b>	<b>BIOL-243</b>
<b>Prerequisite (Co-requisite):</b>	N/A
<b>Co-requisite :</b>	N/A
<b>Course Level:</b>	4 <sup>th</sup> level
<b>Credit Hours:</b>	2 Hours

### :(Course Information) \*

#### Module Description :

This course is deals with the biodiversity; and the definition of species ; Measuring biodiversity (Units of biodiversity, Levels of biodiversity, Biodiversity indices) Importance of biodiversity in Saudi Arabia (values of biodiversity); Threats to biodiversity; Impacts of biodiversity loss; Extinction; Biodiversity hotspots; Conservation of biodiversity (protected areas in KSA and Arab countries).

#### Module Aims

#### أهداف المقرر:

1	Identifying the concept of biodiversity.	1
2	Differentiate between different levels of biodiversity and make analyses of the importance of protected areas for conservation.	2
3	Conclude the importance of biodiversity measurements.	3
4	Comparing between the protected areas in KSA and Arab countries .	4

5	Recognize the role of genetic resource banks and seed banks.	5
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### Learning Outcomes:

مخرجات التعليم:

1	Understanding the concept of biodiversity	1
2	Analysis of the role and importance of biodiversity in different fields.	2
3	Comparing between biodiversity levels and Conclude the importance of biodiversity conservation	3
4	Distinguish between different species concepts and classify the biodiversity levels	4
5	Determination the status of biodiversity in Saudi Arabia	5

Course :

### Contents:

ساعات التدريس (Hours)	الأسابيع (Weeks)	(Subjects)
4	2	Concept of biodiversity, historical brief and biodiversity concept in Islamic Culture
4	2	Biodiversity levels: genetic,- species (species concept)-and habitats diversity
2	1	Importance of biodiversity in life
4	2	Species Extinction, endangered species, causes of species extinctions and biodiversity degradation
6	3	Biodiversity conservation – general methods protected areas (local law - regional conventions – international conventions).
4	2	Comparison between the protected areas in KSA and Arab countries.
2	1	Measurements of biodiversity
4	2	Recognize the role of genetic resource banks and seed banks.

Textbook and :

### References:

ISBN	Publishing Year	Publisher	اسم المؤلف (رئيسي) Author's Name	Textbook title
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978-1-118-68491-7	2013	Wiley-Blackwell	Kevin J. Gaston	Biodiversity: An Introduction
	<b>Publishing Year</b>	<b>Publisher</b>	<b>اسم المؤلف (رئيسي) Author's Name</b>	<b>Reference</b>
978-1633881938	2016	Prometheus Books	William C. Burger	The Evolution of Earth's Biodiversity and the Future of Humanity
978-3662463932	2015	Springer	Jens Boenigk	Biodiversity and Earth History
1-57808-325-7	2003	Science Publishers, Inc.	K.V. Krishnamurthy	Textbook of Biodiversity
0 7103 0371 8	1993	Royal Botanic Garden Edinburgh	MandavilleJ.P.	Flora of Eastern Saudi Arabia

