جامعة المجمعة
Majmaah University

وكالة الجامعة للشؤون التعليمية
إدارة البرامج الدراسية والتطوير

نموذج (5)

مختصر توصيف مقرر

الأحياء البحرية

(Course Syllabus)

معلومات المقرر * (Course Information):

اسم المقرر:	الأحياء البحرية
رقم المقرر:	BIOL-318
اسم ورقم المطلب السابق:	لا فقاريات BIOL-112 فقاريات BIOL-114
اسم ورقم المطلب المرافق:	-
مستوى المقرر:	المستوى السادس
الساعات المعتمدة:	3

Module Title:	Marine Biology
Module ID:	BIOL-318
Prerequisite (Co-requisite) :	Invertebrates, BIOL-112 Vertebrates, BIOL-114
Co-requisite :	-
Course Level:	6th
Credit Hours:	3

Module Description وصف المقرر :

Life on the Earth without ocean is impossible. The oceans are of great ecological significance to have direct effect on global environment and human life; and of significant economic importance as the biggest storehouse of mineral, food and energy resources. Marine environment is the largest aquatic system on the earth. This supports 50% of the primary production of the earth, 85% of the global fish catch and more than 50% of the world's populations to live in the coastal areas. Understanding of the marine biology and its ecology is of great importance for graduate students interested in marine biological aspects.

Module Aims أهداف المقرر :

1	Importance of marine biology- Uniqueness of marine environment - Uniqueness of marine organisms - Marine Environment: Divisions - Marine organisms: Major groups	1
2	**Marine Environmental Biology:** Physical factors that influence marine organisms - Temperature, Light , Salinity, Pressure, Oceanic currents , Tides, Waves , Substratum, Climate change Chemical factors that influence marine organisms - Oxygen, Carbon dioxides and carbonates, Hydrogen sulphide, Hydrogen ion concentration (pH), Inorganic salts, Dissolved-organic matter	2
3	**Ocean biology -** Pelagic ocean, Benthic ocean and Hydrothermal vents and cold seep communities	3

4	**Coastal biology** -Pelagic coast,. Benthic coast, Continental shelf or sub-tidal environment of coast	4
5	Coral reef biology, mangrove biology, estuarine biology, Threats, conservation and management	5

مخرجات التعليم: **Learning Outcomes:**

1	Broad overview of the world's seas and oceans focusing primarily on living organisms	1
2	Recognize and understand basic terms and concepts of marine biology	2
3	Relate the physical and chemical factors influence on marine organisms	3
4	Identification of marine organisms and marine ecosystems	4
5	Conservation and Management of Marine organisms and ecosystems	5

محتوى المقرر: Course Contents:

ساعات التدريس (Hours)	عدد الأسابيع (Weeks)	قائمة الموضوعات (Subjects)
3	1	Exploring the seas and oceans
3	1	Physical properties of ocean
3	1	Chemical properties of Ocean
6	2	Marine Environments
3	1	Interdependence in the Ocean
6	2	Plankton and plankton communities
6	2	Marine plants
9	3	Marine Invertebrate animals
6	2	Marine Vertebrate animals
3	1	Conservation of marine and coastal environment

الكتب المقرر والمراجع المساندة: Textbook and References:

ISBN	سنة النشر Publishing Year	اسم الناشر Publisher	اسم المؤلف (رئيسي) Author's Name	اسم الكتاب المقرر Textbook title
	2014	Scientific Publisher	Kathiresan Kandasamy	Ocean and Coastal Ecology
	سنة النشر Publishing Year	**اسم الناشر Publisher**	**اسم المؤلف (رئيسي) Author's Name**	**اسم المرجع Reference**
	2005	Pearson	James W. Nybakkan and Mark D. Bertness	Marine Biology: An Ecological Approach (6th Edition