Ministry of Higher Education and Scientific Research - Iraq
Al-Mustaqbal University
College for engineering and technology
Department of Biomedical Engineering

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Axial Anatomy			**Module Delivery**	
Module Type	Basic			✓ **Theory** **Lecture** **Lab** **Tutorial** **Practical** **Seminar**	
Module Code	UOMU0101022				
ECTS Credits	8				
SWL (hr/sem)	200				
Module Level	UGI		**Semester of Delivery**	2	
Administering Department	Biomedical Engineering Dept.		**College**	College of Engineering	
Module Leader			**e-mail**		
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor	None		**e-mail**	None	
Peer Reviewer Name			**e-mail**		
Review Committee Approval			**Version Number**		

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	Seven
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 goal of Anatomy is to explain the physical and Anatomical factors that are responsible for the origin, development and progression of life. Anatomy course present tremendous challenges to both students& teachers for acquisition of the basic facts is essential to the study of Anatomy, but also important for students to develop the ability to solve practical, real life problems related to the knowledge they have acquired		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	A- Knowledge and Understanding Graduates will be able to: A2. Apply their knowledge and understanding of physical and Anatomy of human body, mathematics and numerical analysis in order to model Biomedical Engineering and similar systems; A4. Explain the role of Biomedical Engineers in society and the constraints within which their engineering judgment will be exercised. B. Subject-specific skills B2. Design, from requirement, market need or specification, a biomedical engineering device implant or system, up to the preliminary design stage, and present this design via a series of poster, written and oral presentations from both group and individual work; B3. Use laboratory and workshop equipment to generate data, including both engineering and physiological measurements, with appropriate rigor;		
Indicative Contents المحتويات الإرشادية	Staff involved in the degree program utilize a wide range of teaching methods that they deem the most appropriate for a particular course. These include: • Lectures where the students write information presented to them via slide show, overhead or written by the lecturer; • Lectures where the students have some printed notes/handouts and may annotate, or expand these during a spoken lecture; • Lecture material placed on web-pages or other e-learning environment; • Small group and large group tutorial sessions; • Question and answer sessions during lectures or staff Office Hours;		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	External lectures from industry or clinicians; • Feedback given to students during tutorials; • Small group and large group tutorial sessions; • Question and answer sessions during lectures or staff Office Hours; • Guided reading of texts, journal articles etc., for individual and group projects; • Completion of web-based		

	exercises or computer based laboratory sessions;

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	32	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Anatomy
Week 2	Bones of the upper limb arm & forearm
Week 3	muscles of the upper limp arm &forearm
Week 4	muscles of the hands and anatomy of joint
Week 5	nerve and blood supply of the upper limp
Week 6	anatomy of the thoracic wall
Week 7	Anatomy of the heart muscle
Week 8	bones of the hip

Week 9	muscles of the Hip
Week 10	Bones of the lower limp
Week 11	bones of feet and joint
Week 12	muscles of the lower limp leg, thigh
Week 13	muscles of the feet and joints
Week 14	nerve and blood supply of the lower limp
Week 15	**Preparatory Week**
Week 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	.1. Anatomy for Sneal (2012). 2. D. U. Silverthon (2010) Human physiology. 5 Edition. 3-Atlas of Anatomy , 2011, ritchard Harvey and Dennise Ferreier 4. Seely, Stephens, Tate (1998) Anatomy physiology . Mc Graw-Hill, New York	
Recommended Texts	Check the new modern websites talking about the new modifications	