



Ministry of Higher Education and
Scientific Research - Iraq
University of Al Muthanna
College of Applied of Medical Sciences
Department of Pathological analyses



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	HUMAN PHYSIOLOGY		Module Delivery
Module Type	CORE		Theory Lecture Lab Tutorial Practical Seminar
Module Code	PAA-23011		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	2	Semester of Delivery	
Administering Department	Dept. Pathological analyses	College	Applied of Medical Sciences
Module Leader	Dr. Areej Shaker Jassum	e-mail	Areejshakeer@mu.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D
Module Tutor	Dr. Areej Shaker Jassum	e-mail	Areejshakeer@mu.edu.iq
Peer Reviewer Name	Dr. Areej Shaker Jassum	e-mail	Areejshakeer@mu.edu.iq
Review Committee Approval		Version Number	1.0

Relation With Other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	HUMAN PHYSIOLOGY	Semester	1
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	<ol style="list-style-type: none">1- Introducing students to the Human physiology which is the study of how the human body functions2- Teaching students to specific cause-and-effect mechanisms3- Teaching students that Knowledge of these mechanisms has been obtained experimentally through applications of the scientific method4- Introducing students the study of biological function—of how the body works, from molecular mechanisms within cells to the actions of tissues, organs, and systems, and how the organism as a whole accomplishes particular tasks essential for life
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none">1- To teach students about human physiology and organ functions from a theoretical perspective.2- To teach students about human physiology and organ functions from a practical perspective.3- To connect the theoretical and practical aspects with the clinical aspect.
Indicative Contents المحتويات الإرشادية	To enable students understanding the basic principles of physiological functions of different tissues and organs of the human being, and how to evaluate these functions and correlate them with the normal and abnormal conditions. It also emphasizes on the role of homeostatic and hemodynamic changes in the integration of physiological status.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students to participate in class discussions, explain lectures by using modern technologies, improving and expanding their critical thinking skills. Also use brainstorming questions for students.

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	97	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10%		
	Assignments	2	10%		
	Projects / Lab.	1	10%		
	Report	1	10%		
Summative assessment	Midterm Exam	1h	10%		
	Final Exam	3h	50%		
Total assessment			100%		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to physiology : Functional Organization of Human Body and Homeostasis .
Week 2	Body temperature , heat loss , regulation of body temperature (heat regulation center)
Week 3	Body Fluids and Electrolytes
Week 4	The digestive system ; parts and the accessory glands (salivary glands- pancreas – liver and bile)
Week 5	Physiology of Hematologic
Week 6	Blood Groups
Week 7	The cardiovascular system, the heart; structure , heart valves ; the cardiac cycle ,cardiac conductive system; factors affecting heart rate
Week 8	The lymphatic system; function ; lymphatic vessels ; thoracic duct; lymph nodes; tonsils ; spleen
Week 9	The respiratory system ; parts; pleura; types of vital respiration (Internal-External);respiratory-pulmonary ventilation
Week 10	The urinary system ; parts , renal function , the normal formation of urine, Normal constituents of urine, concentration of urine; abnormal constituents of urine , role of the kidney to maintenance body fluids. Role of kidney to regulate blood pressure
Week 11	The nervous system; the nerve cell and its function ; the nerve impulse ; the synapses, Autonomic nervous system. (Sympathetic and parasympathetic functions)

Week 12	The reproductive systems ; Male and female genital organs physiology
Week 13	Hormonal excretion of reproductive system
Week 14	The endocrine system ;the hormone; their chemistry and action.
Week 15	Types of endocrine glands and their secretion.

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Hemoglobin concentration
Week 2	Packed cell volume (PVC) or Hematocrit
Week 3	Red Blood Cell count
Week 4	White Blood Cell count
Week 5	Differential White Blood Cell count
Week 6	Blood Groups
Week 7	Mid Ex
Week 8	Cross Matching test
Week 9	Clotting Time
Week 10	Bleeding Time
Week 11	Prothrombin Time (PT)
Week 12	Erythrocytes sedimentation Rate (E.S.R)
Week 13	Blood Sugar Test
Week 14	Blood Pressure Test
Week 15	Study (ECG)

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Text book of medical physiology; Guyton & Hall. Practicle physiology: Eotvos Lorand University.	No
Recommended Texts	Review of medical physiology; William F. Ganon. Manual of practical physiology.	No

Websites	
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APPENDIX:

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	مقبول بقرار	(45-49)	More work required but credit awarded
	F - Fail	راسب	(0-44)	Considerable amount of work required
Note:				
NB 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.				



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي