

توصيف مقرر دراسي

١ - بيانات المقرر	
المستوى: الثاني	إسم المقرر: Functional Morphology
الرمز الكودي : Z203	عدد الوحدات الدراسية: 3 نظري 2 تمارين 0 عملي 2
التخصص: علوم البيئة	
<p>٢ - هدف المقرر:</p> <p>For students undertaking this course, the aims are to:</p> <p>1 - Provide the students with various skills required for effective learning and communication and to equip them with personal transferable skills for their future career.</p> <p>2- Know the basic information about digestion, digestive circulatory, respiratory, nervous, muscular, endocrine and excretory systems, and its relation to blood function.</p> <p>3- Acquire the students' skills of hands-on experience in body composition measurements, and in the measurement of various blood parameters.</p> <p>4- Enhance the ability for self learning by searching on new techniques and applications in field of physiology.</p> <p>5- Enhance the written and spoken communication skills.</p>	
<p>٣ - المستهدف من التدريس المقرر:</p> <p>أ - المعلومات والمفاهيم:</p> <p>a- Knowledge and Understanding : On completing this course, students will be able to:</p> <p>a1-Understand the structure and function of all body systems.</p> <p>a2-Recognize the differences between the various types of respiration, muscles and glands.</p> <p>a3-Describe the various components of central nervous system and autonomic nervous system.</p> <p>a4-Explain the function of blood, lymph and body fluids.</p> <p>a5-Mention the division of the excretory system and explain the various excretory organs of vertebrates.</p> <p>a6-Understand and explain the mechanism of urine formation.</p> <p>a7-Be aware of the composition of urine and changes in different conditions.</p>	
<p>ب- المهارات الذهنية</p> <p>b- Intellectual Skills: On completing this course, students will be able to:</p> <p>b1-Discover the integration between different body systems of the animals.</p> <p>b2-Interprete the structure and function of different systems.</p> <p>b3-Develop the skills in critical thinking, reading and analyzing of the primary scientific literatures.</p> <p>b4-Develop the skills of active discussion in class and practical activities.</p>	
<p>ج- المهارات المهنية</p> <p>c-Professional and Practical Skills: On completing this course,</p>	

students will be able to: c1-Investigate blood diseases. c2-Analyze normal and abnormal components of urine samples. c3-Prepare experimental techniques and use instrumentation for physiological techniques of the course. c4-Develop skills in scientific reasoning and practice.	الخاصة بالمقرر:															
d-General and Transferable Skills: On completing this course, students will be able to: d1-Work separately or in a team to search and prepare a scientific topic. d2- Apply basic statistical and numerical skills to analyze the experimental data. d3-Present physiological data in a graphical form. d4-Communicate ideas, principles, theories and information effectively by oral, Written and visual means with clarity and confidence. d5-Think critically by questioning given information, testing hypothesis, formulating policy suggestion and with awareness of ethical and moral codes. d6-Solve the problems concerning the effect of pollutants on human health. d7-Manage their own learning and make use of scholarly review and primary Scientific literature.	د- المهارات العامة :															
1- Characteristics of living things and levels of Organization. 2- Nutrition, Digestion, absorption and metabolism. 3- The Circulatory System. 4- Blood. 5- Blood Groups and Blood Transfusion. 6- Lymphatic System and Immunity. 7- Exam 1 (Mid term.). 8- Respiratory System. 9- Respiratory System. 10- The Excretory System. 11-Muscular Systems. 12-The Endocrine System. 13-practical exam.	٤- محتوى المقرر:															
1- lectures(2H/W) 2- Tutorial (2H/W) 3- Practical lab. (2H/W) 4- Report	٥- اساليب التعليم والتعلم:															
The same as normal students, only skeletal disabilities are allowed in the Faculty of Science.	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة:															
٧- تقويم الطلاب :																
Student Assessment Methods <table><tr><td>Mid-term exam</td><td>to assess</td><td>a1-a7,b1-b4,c1-c4</td></tr><tr><td>Practical exam</td><td>to assess</td><td>a1-a7,c1-c4</td></tr><tr><td>Final exam</td><td>to assess</td><td>a1-a7,b1-b4,c1-c4,d1-d7</td></tr><tr><td>Oral exam</td><td>to assess</td><td>a1-a7,b1-b4,c1-c4</td></tr><tr><td>Report</td><td>to assess</td><td>a1-a7,d1-d7</td></tr></table>	Mid-term exam	to assess	a1-a7,b1-b4,c1-c4	Practical exam	to assess	a1-a7,c1-c4	Final exam	to assess	a1-a7,b1-b4,c1-c4,d1-d7	Oral exam	to assess	a1-a7,b1-b4,c1-c4	Report	to assess	a1-a7,d1-d7	أ- الأساليب المستخدمة :
Mid-term exam	to assess	a1-a7,b1-b4,c1-c4														
Practical exam	to assess	a1-a7,c1-c4														
Final exam	to assess	a1-a7,b1-b4,c1-c4,d1-d7														
Oral exam	to assess	a1-a7,b1-b4,c1-c4														
Report	to assess	a1-a7,d1-d7														
Assessment Schedule	ب- التوقيت :															

Assessment 1	Mid-term exam	Week 7	
Assessment 2	Practical exam	Week 14	
Assessment 3	Final exam	Week 16	
Assessment 4	Oral exam	Week 16	
Assessment 5	Reports	Week 16	
Weighting of Assessments			ج- توزيع الدرجات :
Mid-term examination		10%	
Practical Examination		20%	
Final-Term Examination		60%	
Oral Examination		10%	
Total		100%	
٨- قائمة الكتب الدراسية والمراجع :			
1- Course notes: Notes on physiology and practical book prepared by staff members of Physiology in zoology department.			أ- مذكرات:
			ب- كتب ملزمة
1-Text book of medical physiology, Arthur C. Guyton10th edition, John E. Hall (editor). 2- Review of medical physiology, William F. Ganong 22 th edition. 3 - Chiras, C and Daniel D. (2003): "Human Body Systems: Structure, Function and Environment". Sudbury, MA: Jones and Bartlett Publishers. New York. 4- Hill R.W., Wyse G.A., and Anderson M. (2004): "Eckert: Animal Physiology: Mechanisms and Adaptations. (5th edition; Randall, Berggren, and French, Freeman and Co. Publishers. W. H. Freeman and Co., New York.			ج- كتب مقترحة :
1- Periodicals, web sites: American Journal of physiology, http://www.med-ed-online.org			د- دوريات علمية أو نشرات..

(أ) مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

المحتويات للمقرر	اسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
1- Characteristics of living things and levels of Organization.	1	a1	b1	c1	d1
2- Nutrition, Digestion, absorption and metabolism.	2	a1	b2	c2	d2
3- The Circulatory System.	3	a2	b2	c3	d3

4- Blood.	4	a2	b2	c1	d1
5- Blood Groups and Blood Transfusion.	5	a1	b3	c2	d2
6- Lymphatic System and Immunity.	6	a2	b3	c3	d3
7- Exam 1 (Mid term.).	7				
8- Respiratory System.	8	a3	b3	c4	d4
9- Respiratory System.	9	a4	b4	c4	d4
10- The Excretory System.	10	a4	b4	c3	d1
11- Muscular Systems.	11	a3	b4	c4	d2
12-The Endocrine System.	12	a4	b3	c4	d3
13-practical exam.	13				
14-final exam.	14				

أستاذ المادة : ا.د/ ماهر عامر على عامر رئيس مجلس القسم العلمي : أ.د. هناء على حسن