هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-153

Course Specification
(Bachelor)

Course Title:	Physiology
Course Code:	BMS26212
Program:	All programs of Applied Medical Sciences
Department:	Basic Medical Sciences
College:	Applied Medical Sciences
Institution:	University of Bisha
Version:	1
Last Revision Date:	8-2-1445 H

وزارة التعليم - جامعة بيشة
Ministry Of Education - University Of Bisha
وكالة الجامعة للشؤون التعليمية

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A. General information about the course:

1. Course Identification

1. Credit hours: 2(1+1)					
2. Course type					
A.	☐University	☒ College	☐Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: (3rd level / 2nd year)					
4. Course general Description:					
This course is designed to provide students with an understanding of the function and regulation of the human body and physiological integration of the organ systems to maintain homeostasis. Course content will include cell structure and function, neural and hormonal homeostatic control mechanisms, as well as study of the blood and circulatory, respiratory, digestive, urinary, reproductive, and endocrine organ systems.					
5. Pre-requirements for this course (if any)**:**					
NA					
6. Pre-requirements for this course (if any)**:**					
NA					
7. Course Main Objective(s):					
The primary goal of this course is to offer an in-depth presentation of the function of the major organs and organ systems of the human body. Furthermore, each section of the course has its own individual objectives that student should be able to answer upon completion of the particular section.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	12	26.7%
3	Practical	30	66.7%
2	E-learning	3	6%

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	12
2.	**Laboratory/Studio**	30
3.	**Others (specify) E-learning**	3
4.	**Self-learning**	30
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Describe the basics of human physiology.	K1	Lectures, E-learning	Written exam, E-learning activities
1.2	Outline the systems functions	K1		
2.0	**Skills**			
2.1	Examine the physiological processes of various body systems.	S1	Practical	Practical exam
2.2	Apply safety measures in physiology labs.	S2		
3.0	**Values, autonomy, and responsibility**			
3.1	Work in a team in physiology lab.	V3	Practical	In-class evaluation, In-lab evaluation
3.2	Update his knowledge related to physiology.	V3		

C. Course Content

No	List of Topics- **Theory**	Contact Hours
1	Introduction to Physiology	2
2.	The Blood constituents and functions.	2
3.	Cardiovascular physiology	2
4.	Renal physiology.	2
6.	Nervous system physiology	1
7.	Endocrine system.	1
8.	Respiratory system.	2
9.	Digestive system physiology.	2
10.	Reproductive system physiology.	1
	Total theory	15
No	**List of Topics- Practical**	**Contact Hours**
1	Blood samples collection	2
2	Blood cells morphology	4
3	Erythrocytes Sedimentation rate (ESR)	2
4	PCV	2
5	Hemoglobin determination	4
6	Blood grouping	2

7	Blood coagulation test	2
8	ECG	4
9	Blood pressure and pulse rate	4
10	Respiratory rate	2
11	Lung capacity and volumes	2
Total practical		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	E-Learning activities assignments and quizzes	5th	15 %
2.	Midterm exam (theoretical and practical)	8th	20%
3.	lab evaluation	All through	10%
4.	Seminar/Oral exam	9th	5%
5.	Final practical exam	End of semester	20 %
6.	Final theory exam	End of semester	30 %
Total			100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	• **Introduction to the Human Body. The Essentials of Anatomy and Physiology, 9thEd, John Wiley & Sons, Inc., 2012.** • **Guyton and Hall, Medical Physiology, 11th edition, Elsevier-Saunders, 2006.** • **Comment: A comprehensive physiology textbook with nice diagrams and clear explanations.** • **L.S. Costanzo, Physiology, 4th edition, Saunders-Elsevier, 2010.** • **Comment: This soft-cover, large format textbook is a bit briefer than the others but contains good diagrams and good explanations.** • **L.R. Johnson, Essential Medical Physiology, 3rd edition, Elsevier-Academic Press, 2003.**

Supportive References	**i. American journal of physiology** **ii. CL Ghai - A Textbook of Practical Physiology, 8th Edition.**
Electronic Materials	
Other Learning Materials	Saudi electronic library

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	**1. Lecture rooms should be large enough to accommodate the acceptable students.** **2. Laboratories should be will prepared, good ventilated, lightening, full equipped and large enough to accommodate acceptable students at a time, provided by viewers, data show, computers.** **3. Safety Measures and emergency exits.**
Technology equipment (projector, smart board, software)	**1. Maintenance of computers with trained responsible persons.** **2. Computer laboratory accommodating 50 students at a time needed for online testing.**
Other equipment (depending on the nature of the specialty)	

2. Required Facilities and equipment

Items	Resources
facilities	**1. Lecture rooms should be large enough to accommodate the acceptable students.** **2. Laboratories should prepare, good ventilated, lightening, full equipped and large enough to accommodate acceptable students at a time, provided by viewers, data show, computers.** **3. Safety Measures and emergency exits.** 4. complete physiology lab
Technology equipment	**1. Maintenance of computers with trained responsible persons.** **2. Computer laboratory accommodating 50 students at a time needed for online testing.**

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Program Leaders Peer Reviewer Students	Direct / Indirect

Assessment Areas/Issues	Assessor	Assessment Methods
	Faculty Academic performance follows up committee. Students GPA	
Effectiveness of Students assessment	Program Leaders Peer Reviewer Students Faculty Academic performance follows up committee. Examination committee	Direct / Indirect
Quality of learning resources	Program Leaders Peer Reviewer Students Faculty PLOs assessment committee	Direct / Indirect
The extent to which CLOs have been achieved	Program Leaders Peer Reviewer Students Faculty Academic performance follows up committee. Examination committee Students Results	Direct / Indirect
Other		

G. Specification Approval

COUNCIL /COMMITTEE	**DEPARTMENT COUNCIL**
REFERENCE NO.	**1/1444-1445**
DATE	**5-2-1445**

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