



Course Specification  
2020- 2021  
Pharm D Program  
Faculty of Pharmacy  
Mansoura University



بكالوريوس الصيدلة ( فارم د – Pharm D )

Course Specification

Academic year: 2020/2021

Course name: Physiology	اسم المقرر : علم وظائف الاعضاء
Academic Level: 2	المستوى الأكاديمي : ٢
Scientific department: Pharmacology & Toxicology	القسم العلمي : الادويه والسموم
Head of Department: Prof Dr Ghada M Sedek	رئيس القسم :أ.د/ غاده محمد صديق
Course Coordinator: Prof Dr Manar A Nader	منسق المقرر : أ.د/ منار أحمد نادر



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University	Mansoura
Faculty	Pharmacy
Department offering the course	Pharmacology & Toxicology
Department supervising the course	
Program on which the course is given	Bachelor in Pharmacy Pharm D
Academic Level	second only
Date of course specification approval	Oct 2020

### 1- Basic Information : Course data :

Course Title	Physiology
Course Code	PH-211
Prerequisite	-
Teaching Hours: Lecture	2
Practical:	1
Total Credit Hours	3 (Credit H)

### 2- Course Aims:

- 1- Provide knowledge and understanding of the basic functions of the body systems.
- 2- Introduce concepts of cellular, tissue and system hemostasis.
- 3- Provide comprehensive coverage on the integration of the different body systems to maintain body functions

### 3- Course Learning Outcomes

Upon completing the course, the student will be able to dominate the following key elements

#### DOMAIN 1- FUNDAMENTAL KNOWLEDGE

(1.1.1)	1.1	Recognize in-depth and breadth knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences
(1.1.4)	1.2	Explain drugs' mode of action, therapeutic effects and evaluate their appropriateness, effectiveness, and safety in individuals and populations, using .knowledge from fundamental sciences



## DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE

(2.1.3)	<b>2.1</b>	Establish and maintain appropriate professional boundaries and accept responsibility and accountability within healthcare team
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## DOMAIN 3: PHARMACEUTICAL CARE

(3.1.1)	<b>3.1</b>	Modify a dosage regimen for a patient based on the physiological, genetic, biochemical and immunological changes brought about by disease or concomitant drug therapy
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## DOMAIN 4: PERSONAL PRACTICE

(4.1.1)	<b>4.1</b>	Share decision-making activities with other with other pharmacy team members and nonpharmacy team members and apply effective time management skills.
(4.1.2)	<b>4.2</b>	Contribute to the creation of knowledge or practices in the field of pharmacy and participate independently and collaboratively in the delivery of health services .
(4.2.1)	<b>4.3</b>	Use clear language, pace, tone and non-verbal communication and writing skills when dealing with patients, other health team and communities.
(4.3.1)	<b>4.4</b>	Use effective strategies to manage and improve self-practice of pharmacy.
(4.3.2)	<b>4.5</b>	Apply principles of continuing professional development including assessing own learning needs and developing a plan to meet these needs.

## 4- Course Contents

Week No	Topics	No.of hours
<b>1</b>	Introduction to Physiology	2
<b>2,3</b>	Physiology of the nervous system	2
<b>4,5</b>	Physiology of the cardiovascular system	2
<b>6</b>	Physiology of digestive system	2
<b>7</b>	<b>Week 7 Mid-term</b>	-
<b>8</b>	Physiology of respiratory system	2
<b>9</b>	Physiology of the excretory system.	2
<b>10,11</b>	Physiology of the endocrine system.	4
<b>14</b>	<b>Week 15 Final written</b>	



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	<b>Practical topics</b>	
1	Transport across cell membranes	2
2	Nutrient Assessment, BMR, and Body Composition	2
3	Physiology of skeletal muscles	2
4	Physiology of smooth muscles	2
5	Physiology of the eye	2
6	Human Electrocardiography	2
7	Mid Term	-
8	Assessment of Human Blood Pressure	2
9	Blood and Blood groups	2
10	Erythrocyte Sedimentation Rate (ESR), Osmotic Properties of Red cells & Blood Hemolysis	2
11	Investigating the human respiration	2
12	Pregnancy tests & Student activity divided on all labs	2
		2
13	Practical Exam	2

### 5- Teaching and Learning Methods:

<b>5.1</b>	<b>Lectures using Power point (PPT) presentations</b>
<b>5.2</b>	<b>Lectures using whiteboard</b>
<b>5.3</b>	<b>Practical Training / Laboratory</b>
<b>5.4</b>	<b>Seminar / Workshop</b>
<b>5.5</b>	<b>Tutorial / Interactive Sessions</b>
<b>5.6</b>	<b>Class Activity Discussion / Brain storming</b>
<b>5.7</b>	<b>Case study</b>
<b>5.8</b>	<b>Role play</b>
<b>5.9</b>	<b>Formative Assignments</b>
	<b>Other teaching or learning activities (Indicate.....)</b>

### 6- Student Assessment:

#### a- Assessment Methods:

<b>1-Written exam</b>	<b>To assess understanding, intellectual, professional skills</b>
<b>2-Practical exam</b>	<b>To assess professional and practical skills</b>
<b>3-Oral</b>	<b>To assess Knowledge, understanding, intellectual skills, Personal skills</b>
<b>4-Case study</b>	<b>To assess the skills of problem-solving and data presentation</b>
<b>Other Assessment</b>	



