Form: Course Syllabus	Form Number	EXC-01-02-02A
	Issue Number and Date	2/3/24/2022/2963 05/12/2022
	Number and Date of Revision or Modification	
	Deans Council Approval Decision Number	2/3/24/2023
	The Date of the Deans Council Approval Decision	23/01/2023
	Number of Pages	06

1.	Course Title	Anatomy and Physiology
2.	Course Number	0302720
3.	Credit Hours (Theory, Practical)	2
	Contact Hours (Theory, Practical)	2
4.	Prerequisites/ Corequisites	None
5.	Program Title	Masters in Medical Physics
6.	Program Code	
7.	School/ Center	Faculty of Science
8.	Department	Physics
9.	Course Level	Masters
10.	Year of Study and Semester (s)	2024, Semester 1
11.	Other Department(s) Involved in Teaching the Course	-
12.	Main Learning Language	English
13.	Learning Types	☐**Face to face learning** ☐Blended ☐Fully online
14.	Online Platforms(s)	☐**Moodle** ☐**Microsoft Teams**
15.	Issuing Date	1 Jan 2012
16.	Revision Date	11 November 2024

17. Course Coordinator:

Name: **Eman Daar**	Contact hours: Sun, Tuesday and Thursday 1.30 – 2.30
Office number: **22048**	Phone number:
Email: **e.daar@ju.edu.jo**	

18. Other Instructors:

Name: None Office number: Phone number: Email: Contact hours: Name: Office number: Phone number: Email: Contact hours:

19. Course Description:

As stated in the approved study plan. The course is intended for the medical physics students and aims to familiarise them with basic concepts in anatomy and physiology. These concepts include homeostasis, life processes and levels of organisation in the human body. Furthermore, the course defines the use of correct terminology necessary to describe the locations of body parts. Additionally, discussing common diseases, disorders, and aging. The course also briefly involves revisiting different imaging tools used to study the anatomy and physiology of the human body.

20. Program Intended Learning Outcomes: (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program)

1. **SO1:** to be able to identify core concepts of medical physics and the physics principles in medical radiation therapy and different applications in medical physics.
2. **SO2:** to be able to develop design, hypothesize, and conduct scientific research in medical physics.
3. **SO3:** to be able to apply mathematical and analytical skills to solve problems, interpret diagnostic data, and test hypotheses in medical physics.

4. **SO4:** to be able to recognize and uphold ethical, social, and legal responsibilities in medical physics practice.
5. **SO5:** to be able to use computational tools to analyze data and demonstrate competency with medical diagnostic instruments.
6. **SO5:** to be able to function effectively independently and on teams for establishing goals, plan tasks, meet deadlines, and analyze risk and uncertainty.
7.

21. Course Intended Learning Outcomes: (Upon completion of the course, the student will be able to achieve the following intended learning outcomes)

1. **Explain the concept of homeostasis, life processes and levels of organisation in the human body.**
2. **Use the correct terminology necessary to describe the locations of the body parts.**
3. **Describe the anatomy and physiology of each of the human body systems studied.**
4. **Discuss common diseases and disorders.**
5. **Describe the anatomical and physiological consequences of aging on the body.**
6. **Uses of various medical imaging techniques to study the anatomy and physiology of the body. These techniques include X-rays, US, CT, PET scan and MRI.**

Course ILOs	The learning levels to be achieved					
	Remembering	**Understanding**	**Applying**	**Analysing**	**evaluating**	**Creating**
1		**X**				
2	**X**	**X**	**X**			
3		**X**				
4	**X**	**X**				
5				X		
6		X	X		X	

2٢. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program:

Program ILOs / Course ILOs	ILO (1)	ILO (2)	ILO (3)	ILO (4)	ILO (5)
1	x		x		
2		x		x	
3					
4	x				
5					x.
6		x			
7					
8					

2٣. Topic Outline and Schedule:

Week	Lecture	Topic	ILO/s Linked to the Topic	Learning Types (Face to Face/ Blended/ Fully	Platform Used	Synchronous / Asynchronous	Evaluation Methods	Learning Resources
1	1.1	Introduction to human anatomy	1					
	1.2	Terminology	2					
	1.3		3					
2	2.1	Levels of organization:	1 - 6					
	2.2	Chemical to System levels						
	2.3	Summery Body Systems						
3	3.1	Concept of homeostasis, body fluids and life processes.	1- 6					
	3.2							
	3.3							

4	4.1	Cont. Concept of homeostasis, body fluids and life processes.	1-6					
	4.2							
	4.3							
5	5.1	Anatomical Position	1, 3					
	5.2							
	5.3							
6	6.1	Cell Biology	1-6					
	6.2							
	6.3							
7	7.1	Cont. Cell Biology	1-6					
	7.2							
	7.3							
8	8.1	Tissues						
	8.2							
	8.3							
9	9.1	Cont. Tissues						
	9.2							
	9.3							
10	10.1	CVS						
	10.2							
	10.3							
11	11.1	Cont.						
	11.2							
	11.3							
12	12.1	Digestive system	1-6					
	12.2							
	12.3							
13	13.1	Respiratory System	1-6					

	13.2							
	13.3							
14	14.1	Renal System	1-6					
	14.2							
	14.3							
15	15.1	Cont. Renal System						
	15.2							
	15.3							

24. Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	ILO/s Linked to the Evaluation activity	Period (Week)	Platform
Midterm Exam	30%	End of tissues			
Report and Presentation	30%	Various ideas			
Final Exam	40%	All topics			

25. Course Requirements:

(e.g.: students should have a computer, internet connection, webcam, account on a specific software/platform…etc.):

No special requirements.

٢٦. Course Policies:

A- Attendance policies: Students are expected to attend all classes. B- Absences from exams and submitting assignments on time: C- Health and safety procedures: D- Honesty policy regarding cheating, plagiarism, misbehavior: E- Grading policy: Mid exam (30 %), Report and Presentation (30 %), final (40 %) F- Available university services that support achievement in the course:

٢٧. References:

A- Required book(s), assigned reading and audio-visuals: Principles of Anatomy and Physiology, Gerard J. Tortora, 15the edition. B- Recommended books, materials, and media:

٢٨. Additional information:

Name of the Instructor or the Course Coordinator:	Signature:	Date:
Eman Daar……	……..……	18 -11 2024
Name of the Head of Quality Assurance Committee/ Department	Signature:	Date:
…….	……..……	……..……

Name of the Head of Department	Signature:	Date:
……	……..……	……..……
Name of the Head of Quality Assurance Committee/ School or Center	Signature:	Date:
……	……..……	……..……
Name of the Dean or the Director	Signature:	Date:
……	……..……	……..……