



## Course Specifications: Introduction to Human Anatomy BME292

### 1. Basic Information

<b>Program Title</b>	Biomedical Engineering
<b>Department offering the Program</b>	Biomedical Engineering
<b>Department Responsible for the Course</b>	Anatomy-Faculty of medicine
<b>Course Title</b>	Introduction to human anatomy
<b>Course Code</b>	BME292
<b>Year/ Level</b>	Level 200
<b>Credit Hours</b>	3
<b>Specialization</b>	Major
<b>Requirements</b>	None
<b>Authorization data of course specification</b>	

Teaching Hours	Credit	Lectures	Tutorial	Practical
	3	2	-	3

### 2. Course Aims:

No.	Aims
1	Apply knowledge of science and biology concepts to provide a simple and straight forward approach to the basic anatomy for paramedical students.
5	Identify the ethical responsibilities in biological anatomy and benefit from the anatomy of human body in the biomedical systems.

### 3. Intended Learning Outcomes (ILOs):

#### A. Knowledge and Understanding:

No.	Knowledge and Understanding
A3	Identify the characteristics of the human body through anatmy.

#### B. Intellectual Skills

No.	Intellectual Skills
B16	Investigate the characteristics of the living organs.

#### C. Professional Skills

No.	Professional Skills
C16	Use anatomy knowledge to evaluate biomedical systems.

#### D. General Skills

No.	General Skills
D3	Communicate effectively to enter the biomedical field.

### 4. Course Contents:

No.	Topics	Weeks
1	Anatomical Terminology	1
2	The Skin	2
3	The Fascia	3
4	The skeleton	4
5	The Joints	5
6	The Muscles	6
7	The Cardiovascular system	7
8	Large arteries of thorax	8
9	Large Veins of the thorax	9
10	The Lymphatic system	
11	The Digestive system	10
12	THE Respiratory system	
13	The Urinary System	11
14	The Pelvic cavity	
15	Female Genital Organs	12
16	Male Genital Organs.	
17	The Nervous Sys	13



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### 5. Teaching and Learning Methods:

No.	Teaching Method
1	Lectures
2	Case Studies
3	Discussion Sessions

### 6 Teaching and Learning Methods for Disabled Students:

No.	Teaching Method	Reason
1	Extra practical sessions	To answer questions and practice

### 7. Student Evaluation:

#### 7.1 Student Evaluation Methods:

No.	Evaluation Method	ILOs
1	Mid Term Examination	A3, B16
2	Semester work	A3, B16, C16, D3
3	Final Term Examination	A3, B16

#### 7.2 Evaluation Schedule:

No.	Evaluation Method	Weeks
1	Mid Term Examination	8
2	Semester work	Every week
3	Final Term Examination	15

#### 7.3 Weighting of Evaluations:

No.	Evaluation Method	Weights
1	Mid Term Examination	15%
2	Semester work	35%
3	Final Term Examination	50%
Total		100%

### 8. List of References

No.	Reference List
1	Tortora, Gerard J., and Mark T. Nielsen. Principles of human anatomy. Hoboken, NJ: Wiley, 2014.
2	Nolte, John, and John Sundsten. <i>The human brain: an introduction to its functional anatomy</i> . Vol. 5. St. Louis: Mosby, 2002.
3	Klenerman, Leslie. Human anatomy : a very short introduction. Oxford, United Kingdom: Oxford University Press, 2015.
4	Martini FH, Timmons MJ, Tallitsch RB. Human Anatomy. Pearson Higher Ed; 2014.

### 9. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture Classroom
2	White Board
3	Data Show System
4	Sound System
5	Wireless Internet

### 10. Matrix of Knowledge and Skills of the Course:

No.	Topic	Aims	Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
1	Anatomical Terminology	1, 5	A3	B16		
2	The Skin	1, 5	A3			D3
3	The Fascia	1, 5	A3			D3
4	The skeleton	1, 5	A3	B16	C16	
5	The Joints	1, 5	A3			D3



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6	The Muscles	1 ,5	A3	B16		
7	The Cardiovascular system	1 ,5	A3	B16		
8	Large arteries of thorax	1 ,5	A3		C16	D3
9	Large Veins of the thorax	1 ,5	A3	B16		
10	The Lymphatic system	1 ,5	A3			
11	The Digestive system	1 ,5	A3	B16		
12	THE Respiratory system	1 ,5	A3	B16		D3
13	The Urinary System	1 ,5	A3		C16	
14	The Pelvic cavity	1 ,5	A3	B16		
15	Female Genital Organs	1 ,5	A3			
16	Male Genital Organs.	1 ,5	A3			
17	The Nervous Sys	1 ,5	A3	B5		

**Course Coordinator: Prof.Dr.**

**Head of Department: Assoc. Prof. HossamEldeen Salah**

**Date of Approval:**