C	ourse Unit Title	arse Unit Title Anatomy and Physiology					
Co	ourse Unit Code	BME210					
Ty	pe of Course Unit Compulsory						
Le	evel of Course Unit	Bachelor of Science, 2 nd year					
Na	ational Credits	3					
N	imber of ECTS Credits Allocated	5					
T	neoretical (hour/week)	4					
Pr	actice (hour/week)	_					
La	aboratory (hour/week)	_					
Y	ear of Study	2					
Se	mester when the course unit is delive	réd					
C	ourse Coordinator	Faculty of Medicine					
N	ame of Lecturer (s)						
N	ame of Assistant (s)	_					
M	ode of Delivery	Face to Face					
L	anguage of Instruction	Fnglish	English				
Pr	erequisites						
	Pagammandad Ontional Program						
	Components						
Components							
Course description:							
car	ardiovascular system, calculations related to the cardiovascular system, the respiratory system						
cal	sulations related to the respiratory syste	m the urinary system calculations re	lated to the				
urir	ary system mechanisms of physiologic	control the digestive system					
Oh	iectives of the Course.						
	• Learn basic aspects of human physic	ology					
• Learn basic aspects of numan physiology.							
	• Develop an understanding of the en-	igneering approach toward understar	unig biological				
	 Sourch the scientific literature retri 	ave information and succinctly report	onenacific				
	• Search the scientific interature, feth	eve information and succincity repor	t on specific				
Loc	rning Outcomes						
	the and of the course the student should	he able to	seasement				
1	Understand nomenclature of clinical n	adjoing and biological sciences	1				
2	Able to understand basic concents of a	netomy function organallas	1 2				
2	Able to understand basic concepts of anatomy, function, organelles 1,						
3	Able to understand histology, composition and function of the 4 types 1, 2						
1	OF USSUES.						
4	Able to understand micro-anatomy and physiology at the introductory 1, 2						
5	level.						
3	Able to understand neural and peripheral nervous system		1, 2				
0	Able to understand cardiovascular syst	1, 2					
/	/ Able to understand renal and respiratory Systems 1, 2						
Assessment Methods: 1. Written Exam, 2. Assignment, 3. Project/Report, 4. Presentation, 5. Lab.							
WOIK							
Course's Contribution to Program							
1			CL				
1	science and multidisciplinary context of engineering science.		5				
2	Analyze, design and conduct experiments, as well as to analyze and 4 interpret data.						

3 De re	esign a system alistic constra	4						
	ethical, health and safety, manufacturability and sustainability.			4				
4 FL	inction on mu	nultidisciplinary teams.		4				
5 Co	tegration in a	3						
6 Di	Display an understanding of professional and ethical responsibility.		3					
7 Co	ommunicate	2						
8 Se	earch technical	1						
9 R.	ecognize of the	3						
10 Ex	xhibit a knowl	2						
11 Us en	1 Use the techniques, skills and modern engineering tools necessary for engineering practice to develop marketable products for the global market							
CL: Co	ontribution Lev	vel (1: Verv Lo	ow. 2: Low. 3: Moderate. 4: High. 5: Very Hi	gh)				
Cours	e Contents		, <u>2</u> , <u>2</u> , <u>2</u> , <u>1</u>	5)				
Week	Chapter		Exam					
1	-	Introduction						
2	-	Review of basi						
3	3 Ce		Cellular Physiology and Cellular engineering					
4	4 Tis		Tissue level of organization					
5		Introduction to						
6	6 Fu		Functional neuro-muscular stimulation					
7 M		MIDTERM		Midterm				
8 Sys		System level of organization						
9 Ne		Neural and per						
10 Ca		Cardiovascular						
11 Rh		Rheology of b						
12		Renal and Res						
13	13 Br		Brief introduction to high altitude physiology					
14	14 Re		Review					
15	15 FINAL			Final				
Recommended Sources								
Human Physiology: From Cells to Systems by L. Sherwood $(4^{\text{th}} \text{ and } 5^{\text{th}} \text{ Ed})$								
Martini's and Bartholomew's Essential of Anatomy and Physiology. by Seiger. 2 nd Ed. Or later.								
Assessment								
Attend	Attendance		Less than 25% class attendance results in NA grade					
Quiz		20%	Written Quiz					
Midterm Exam		30%	Written Exam					
Final Exam		40%	Written Exam					
Total		100%						

Assessment Criteria

Final grades are determined according to the Near East University Academic Regulations for Undergraduate Studies

Course Policies

- Attendance to the course is mandatory.
- Late assignments will not be accepted unless an agreement is reached with the lecturer.
- Students may use calculators during the exam.
- Cheating and plagiarism will not be tolerated. Cheating will be penalized according to the Near East University General Student Discipline Regulations

ECTS allocated based on Student Workload

Activities	Number	Duration (hour)	Total Workload(hour)
Course duration in class (including Exam weeks)	15	4	60
Labs and Tutorials			
Assignment	5	4	20
Project/Presentation/Report	-	-	-
E-learning activities	-	-	-
Quizzes	2	2	4
Midterm Examination	1	15	15
Final Examination	1	15	15
Self Study	14	3	42
Total Workload	156		
Total Workload/30(h)	5.2		
ECTS Credit of the Course	5		