


NEAR EAST UNIVERSITY – COMMON COURSES COORDINATION UNIT							
		Department of Dentistry Course Information Sheet & Course Outline 2021-2022 Spring Semester					
		Course Code PHY100	Course Name Physics	Credit 3	ECTS 5		
Pre-requisite: -							
Language: English		Course Type: elective		Year: 2021-22		Semester: spring	
Weekly Hours	Class Hours 3	Laboratory -	Practicum -	Learning Sessions			
				PS 12	C 3	R 2	T 3
Course Lecturer/Coordinator: Dr Erkut İnan İşeri E-mail address erkut.inaniseri@neu.edu.tr			Office Hours: Tuesday 10:00 – 10:50 Online Office Hour Link: <a href="https://meet.google.com/vck-sgzp-yti">meet.google.com/vck-sgzp-yti</a>				
Learning Outcomes	<p>After the completion of this course, the student will be able to</p> <ul style="list-style-type: none"> <li>▶ Develop the knowledge of the concepts, theories, techniques and principles of classical electrostatics and magnetostatics</li> <li>▶ Understand the diagrammatic and graphical representation of physics problems and physical data</li> <li>▶ Improve their skills in correctly using symbols and units, analytically/critically applying the theoretical concepts and methods of mechanics and formulating appropriate equations to solve problems</li> <li>▶ Improve their skills in applying the theoretical concepts and methods of physics and formulating appropriate equations to solve problems</li> <li>▶ Improve the strength of students' creative and systematic thinking capability</li> </ul>						
Course Description	This is an fundamental physics course for faculty of engineering. Its covers basic physics subjects of electromagnetics.						
Course Objectives	<ul style="list-style-type: none"> <li>• to provide the students with the fundamental principles of static electric and magnetic</li> <li>• to establish the foundations for further studies in engineering.</li> <li>• to enable them to gain skills for problem solving and a scientific thinking.</li> <li>• to establish the foundations for further studies in engineering.</li> </ul>						
Textbooks and/or References	1	Douglas C. Giancoli, Physics for Scientist and Engineers with Modern Physics, 4 <sup>th</sup> Edition, Printice Hall .					
	2	Materials on flippedlearning					
	3						
	4						
	5						
Course Content	Vectors, motion in one and two dimension, Newton's Laws of motion and applications, work, energy, Electric charge, Electric Field, Current and resistance, DC Circuits						
Methods and Techniques Used in the Course	Flippedlearning						
WEEKLY OUTLINE							
Week	Date	Topic	Activities	Reference			
1	14 February-18 February	<b>Introduction to Classes</b>					
2	21 February-25 February	Units and Vectors.		1			
3	28 February - 4 March	Kinematic in one dimension		1			
4	7 March -11 March	Kinematic in two		1			
5	14 March - 18 March	Newton's Laws of Motion		1			
6	21 March -25 March	Applications of Newton's Laws		1			
7	28 March -1 April	Work	<b>Midterm Exams</b>				
8	4 April- 8 April			1			
9	11 April- 15 April	Energy and Energy Conservation		1			
10	18 April- 22 April	Electric Charge and Electric field		1			
11	25 April - 29 April	Electric Charge and Electric field		1			
12	2 May- 6 May	Current and Resistance		1			
13	9 May- 13 May	Ohm's Law		1			
14	16 May- 20 May	Direct Current Circuits		1			
15	23 May- 27 May	Direct Current Circuits		1			
16	30 May – 8 June	<b>Final Exams</b>					
Attendance: Minimum 70 %							
Assessment Breakdown	Type		%	Reference/Source	Relevant Competencies		
	1	Homeworks (3)	20	1			
	2	Midterm	35	1			
	3	Final	45	1			
	4						
5							
Learning Program							
Educational Tool	Amount	Student Work Load(Hours)	Educational Tool	Amount	Student Work Load(Hours)		

Preparing for lecture session	15	15*1=15	Discussion session	3	3*5=15
Home work	3	3*8=24	Problem solving sessions	12	12*3=36
Midterm	1	1*25=25			
Final	1	1*32=32			
			<b>Total</b>	168	
		<b>Recommended ECTS Credit (Total Hours / 30):</b>	<b>161/30 = ~5</b>		