

## PHYSICS

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)	ECTS
Physics	FTR 133	1.year/ 1.term <b>Fall</b>	2	-	-	4
Prequisites						
Course language	Turkish					
Course type	Elective					
Learning and teaching strategies	Lecture Discussion					
Instructor (s)						
Course objective(Aim of course)	This course aims to teach students fundamentals of mechanics, electric, magnetism and optics.					
Learning outcomes	<ol style="list-style-type: none"> <li>1. Knows the subjects and laws of mechanics.</li> <li>2. Solves basic mechanics problems.</li> <li>3. Understands the fundamental concepts of electric and magnetism.</li> </ol>					
References	<u>1.Bekir Karaoglu, Üniversiteler İçin Fizik</u> <u>2.Kamil Temizyürek Genel Fizik I-II</u>					

### Course outline weekly:

Weeks	Topics

1. Week	Units and vectors
2. Week	One-dimensional motion, Planar movements
3. Week	Laws of Motion
4. Week	Work and energy. Energy Conservation
5. Week	Conservation of linear momentum.
6. Week	Collision. Conservation of Momentum,
7. Week	Electric charge, Coulomb's Law
8. Week	Midterm Exam
9. Week	Electric Field, Electric Potential
10. Week	Capacitance and Dielectrics
11. Week	Current and resistance
12. Week	Direct Current Circuits
13. Week	Magnetic Fields
14. Week	Midterm Exam
15. Week	FINAL EXAM

**ECTS (Student Work Load Table)**

Activities	Number	Duration	Total Work Load
Course Duration (X14 )	14	2	28
Laboratory			
Practice			
Field Study			
Study Time Of Outside Of Class (Pre-Study, Practice, Etc.)	14	1	14
Presentations (Video shoot/Poster preparation/Oral presentation, Etc.)			
Seminars			
Project			
Case study			
Role playing, Dramatization			
Writing articles, Critique			
Time To Prepare For Midterm Exam	1	30	30
Final Exam Preparation Time	1	30	30
<b>Total Work Load ( hour) / 25(s)</b>	$102 / 25 = 4.08$		
<b>ECTS</b>	4		

## Evaluation System

Mid-Term Studies	Number	Contribution
Midterm exams	1	%100
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If There Is)		
Homework's		
Presentation and Seminar		
Project		
Other evaluation methods		
<b>Total Time To Activities For Midterm</b>		100
<b>Final works</b>		
Final	1	%100
Homework		
Practice		
Laboratory		
<b>Total Time To Activities For Midterm</b>		100
Contribution Of Midterm Studies On Grades		%50
Contribution Of Final Exam On Grades		%50
<b>Total</b>		100

**The relationship between learning outcomes and the program qualifications of the courses**

<b>Program Qualifications</b>	<b>Learning outcomes</b>		
	<b>L.O.1</b>	<b>L.O.2</b>	<b>L.O.3</b>
1. Sufficient background in basic- clinical medical sciences and physical therapy and rehabilitation discipline; ability to use theoretical and practical skills and knowledge in these fields with analytical thinking	4	4	4
2. Ability to determine, define, formulate and solve the factors that affect health; ability to choose and apply evidence based techniques and new methods for this aim.			
3. Ability to choose and use modern equipments, techniques and modalities for physiotherapy and rehabilitation practices; effectively use the informatique technologies.			
4. Ability to design multidisciplinary research, keep records, collect appropriate data, analysis and interpret results.			
5. Ability to attain new knowledge, make literature reviews, use medical databases and sources of information devoted to medical- health sciences			
6. To work autonomously and effectively in health team and self confidence to take responsibility			
7. To internalize characteristically development, literate and lifelong learning; quality development,to contribute education and promotion programs in field,to			

internationalize their professional behavior.			
8. To have professional deontology and ethical awareness			

**Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent**