

BALIKESİR UNIVERSITY
NECATİBEY FACULTY OF EDUCATION
UNIVERSITY ELECTIVE COURSE PROPOSAL FORM

Department / Program	Department of Mathematics and Science Education / Physics Education							
Course Title	Physics In Everyday Life							
Semester	Fall	X		Spring	X			
Language	Turkish	X		English				
Credits	Theory	2		Application	0		Total	2
ECTS	3							
Type of Program	Formal Education			Face to face				
Course Objectives	It is aimed to enable students to understand and interpret the events we encounter in daily life, the working principles of the objects around us, the physics concepts and applications underlying the technological tools and equipment that make our lives easier.							
Course Content	The physics behind objects and events encountered in daily life, technological tools and equipment will be examined in terms of mechanics, electricity, magnetism, optics, heat-temperature, waves, modern physics, energy concepts and applications.							
Course Prerequisites	There is no prerequisite for the course.							
Instructor	Assoc. Prof. Dr H.Asuman Küçüközer			mail : akucuk@balikesir.edu.tr				
Course Assistants	-			mail : -				
Course Internship Status	The course has no internship.							
Course Resources	Hewitt, P.G. (2021) Kavramsal Fizik Serway R. A., Beichner R.J. (2005) Fen ve Mühendislik İçin Fizik Popüler Bilim Kitapları https://yayinlar.tubitak.gov.tr/ Bilim Teknik Dergisi https://bilimteknik.tubitak.gov.tr/							
Course Category	Science							
Planned Learning Activities and Methods	Lectures, Prediction-Observation-Explanation, Group Work, Discussion, Question-Answer, Presentation							
Course Evaluation Criteria			Course ECTS Calculation Content					
Semester Studies	Quantity	Contribution (%)	Activity	Quantity	Duration	Total Work Load (Hour)		
Mid-terms	1	40	Course Duration	14	2	28		
Short Exam			Out of Class Work Duration	14	1	14		
Homework			Midterm Exams	1	20	20		
Attendance			Final Exam	1	20	20		
Practice			Total Work Load: 82					
Project			ECTS Credits : 3					
Final Exam	1	60						
Learning Outcomes	1) Understands and explains certain events encountered in daily life using physics concepts 2) Knows and explains the working principles of certain technological tools encountered in daily life 3) Improves scientific and technological literacy level.							

Course Topics			
Week	Topic	Pre-Study	Materials
1	Course introduction, formation of student study groups	Preliminary research of the relevant subject	Source books and presentations
2	Daily events and technological tools: Mechanics	Preliminary research of the relevant subject	Source books and presentations
3	Daily events and technological tools: Mechanics	Preliminary research of the relevant subject	Source books and presentations
4	Daily events and technological tools: Electricity	Preliminary research of the relevant subject	Source books and presentations
5	Daily events and technological tools: Electricity	Preliminary research of the relevant subject	Source books and presentations
6	Daily events and technological tools: Magnetism	Preliminary research of the relevant subject	Source books and presentations
7	Daily events and technological gadgets: Optics	Preliminary research of the relevant subject	Source books and presentations
8	Daily events and technological tools: Heat and Temperature	Preliminary research of the relevant subject	Source books and presentations
9	Midterm Exam	Preliminary research of the relevant subject	Source books and presentations
10	Daily events and technological tools: Waves	Preliminary research of the relevant subject	Source books and presentations
11	Daily events and technological tools: Waves	Preliminary research of the relevant subject	Source books and presentations
12	Daily events and technological tools: Energy	Preliminary research of the relevant subject	Source books and presentations
13	Daily events and technological tools: Modern Physics	Preliminary research of the relevant subject	Source books and presentations
14	Daily events and technological tools: Modern Physics	Preliminary research of the relevant subject	Source books and presentations
15	Evaluation	Preliminary research of the relevant subject	Source books and presentations

Contribution of Learning Outcomes to Program Outcomes