Course Syllabus

Code - Course Title	**FİZ228 - Physics II**
Course Type	IV. SEMESTER
Laboratory + Practice	4+0
ECTS	**7.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DOÇ. DR. AHMET ŞENOL AYBEK, DOÇ. DR. METİN KUL, DR. ÖĞR. ÜYESİ OĞUZ ERTUĞRUL

Mode of Delivery	The mode of delivery of this course is face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	None
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Electric Charges and Coulomb’s Law: a) Properties of electric charges b) Insulators and conductors c) Coulomb’s Law	
Week - 2		Electric Field and the Motion in Electric Field: a) Electric field b)Electric field lines c) Electric field of a continuous charge distribution d) Motion of charged particles in a uniform electric field.	
Week - 3		Electric Potential: a) Potential difference and electric potential b) Potential difference in a uniform electric field c) Electric potential and potential energy due to point charge d) Electric potential due to continuous charge distributions e) Obtaining electric field from the electric potential	
Week - 4		Electric potential energy	
Week - 5		Condansator and dilectrics	
Week - 6		Magnetic Fields: a) Defination and properties of the magnetic field b) Magnetic force on a current- carrying conductor c) Motion of a charged particle in a magnetic field	
Week - 7		Amper Law Magnetic field of Selenoid	
Week - 8		Inductance: a) Self-inductance b) Energy in magnetic field c) Mutual inductance	
Week - 9		Alternative Current Circuits, Semiconductors	

Learning Outcomes

#	Learning Outcome
1	explain the concept with regard to the electric charge, electric field, and electrical potential.

Learning Outcomes

#	Learning Outcome
2	analyse there of interesting concepts capacitance, electric current, resistance, power, and electrical energy.
3	explain the some concepts with regards to magnetism.
4	explain the effects of the charging magnetic flux.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	40
Final Exam	1	60
	Sum (%)	**100**