Course Syllabus

Code - Course Title	**TEK103U - Scientific Principles of Technology**
Course Type	I. SEMESTER
Laboratory + Practice	0+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. HAKAN DAL

Mode of Delivery	Distance Education
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Measurement, Physical Quantities and Kinematics	
Week - 2		Dynamic Analysis of Movement and Balance	
Week - 3		Work, Energy, Power and Momentum	
Week - 4		Fluid mechanics	
Week - 5		Example Problem Solving	
Week - 6		Example Problem Solving	
Week - 7		Temperature, Heat and Expansion	
Week - 8		Stagnant Electricity and Electric Current	
Week - 9		Magnetic Field	
Week - 10		Magnetic Field	
Week - 11		Waves	
Week - 12		Light and Optics	
Week - 13		Example Problem Solutions	
Week - 14		Example Problem Solutions	

Learning Outcomes

#	Learning Outcome
1	Will be able to explain the measurement process
2	Will be able to make kinematic analysis of motion
3	Will be able to make dynamic analysis of movement
4	Will be able to explain concepts related to Work, Energy and Power.
5	Will be able to know the concept of Momentum and Conservation of Momentum.
6	Will know the concepts of Electricity and Electric Current
7	Will be able to solve problems about the structure of light and optics.

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	30
Final Exam	1	70
	Sum (%)	**100**