

COURSE DESCRIPTION	
Course code and title	FIZ103,PHYSICS I
Course Semester	1
Course Content	Physics and Measurement, Motion in one dimension, Vectors , Move in two dimensions, Acts of Motion, Circular Motion and Newton's Laws, Work and Kinetic Energy, Potential energy and conservation of energy, Linear momentum and collisions, Rotation of rigid bodies around a fixed axis, Rolling Motion and Angular Momentum, Static Equilibrium and Flexibility, Vibration Motion and Gravity Law
Recommended or Required Reading	Fen ve Mühendislik için Fizik I, Editör: Kemal ÇOLAKOĞLU. - Physics For Scientists and Engineers with Modern Physics, R.Serway, Saunders College Publishing, 1990.
Recommended or Required Reading	
Credits of Course (ECTS)	6
Prerequisites	Lectures must be attended by students
Type of Course	Basic Science Education
Language of Instruction	Turkish
Purpose and Object of the Course	Examination of basic mechanical phenomena in the nature and learning of basic concepts
Learning Outcomes Of The Course Unit	The student who takes this course learns the bases of the mechanics. Learn techniques for solving mechanical problems In the theoretical and applied Physics-I course, students take preliminary abilities gained by solving a large number of problems. Understand and apply Newton's laws Learn mass gravity Learn vibration motion Learn the concepts of work and energy.
Planned Learning Activities and Teaching Methods	Face to face
Course Per Week	1. Week: Physics and Measurement 2. Week: Motion in One Dimension 3. Week: Motion in Two Dimensions 4. Week: Vectors 5. Week: Move in two dimensions 6. Week: Circular Motion and Newton's Laws 7. Week: Work and Kinetic Energy 8. Week: Midterm Exam, Potential energy and conservation of energy 9. Week: Linear momentum and collisions, Rotation of rigid bodies around a fixed axis 10. Week: Rolling Motion and Angular Momentum 11. Week: Static Equilibrium and Flexibility 12. Week: Vibration Motion 13. Week: Gravity Law 14. Week: Final
Workload	Theoretical Study Hours of Course Per Week: 4hours Practising Hours of Course Per Week:0 Reading:2 hours Searching in Internet and Library:2 hours Designing and Applying Materials:0 Preparing Reports: 0 Preparing Presentation:0 Presentation:0 Mid-Term and Studying for Mid-Term: 10 hours Final and Studying for Final: 10 hours

Assessment Methods And Criteria		Sayı	Toplam Katkısı (%)					1	
	Mid-terms	1	40						
	Assignment	0							
	Exercise	0							
	Projects	0							
	Practice	0							
	Quiz	0							
	Contribution of In-term Studies to Overall Grade (%)								
	Contribution of Final Examination to Overall Grade (%)		60						
	Attendance		0						
Efficiency	Activities		Total number of weeks		Time (Weekly)			Total efficiency at the end of the semester	
	Theoretical Study Hours of Course Per Week		14		4			56	
	Practicing Hours of Course Per Week		0		0			0	
	Reading		14		2			28	
	Searching in Internet and Library		14		2			28	
	Designing and Materials, Applying		0		0			0	
	Preparing Reports		0		0			0	
	Preparing Presentation		0		0			0	
	Presentation		0		0			0	
	Mid-Term and Studying for Mid-Term		1		10			10	
	Final and Studying for Final		1		10			10	
	Other		5		2			10	
	TOTAL WORKLOAD							142	
	TOTAL WORKLOAD/ 25							5.68	
	ECTS of Course							6	
	Course's Contribution To Program	No	PROGRAM LEARNING OUTCOMES			1	2	3	4
1		To be able to gain scientific innovation skill.						x	
2		To be able to make independent research and investigation.						x	
3		To be able to earn clever observation and analytical thinking skills.						x	
4		To be able to make an biological systems analizing with physics laws.						x	
5		To be able to connect with basic science Mathematic, Chemistry and Biology.						x	
6		To be able to gain ability of teaching and learning.						x	
7		To be able to understand the importance of physics concepts, implementation and description.						xx	

	8	To be able to provide an understanding of natural phenomena with development of technology.				x	
	9	To be able to gain thinking, creating, upgradability of discussion and questioning skills.				x	
	10	To be able to contribute to developments in the field of Nuclear Medicine ,Health Physics and Medical Physics.				x	
	11	To be ability to about computer-aided algorithm for solving problems and to become capable of writing programs.				x	
	12	To be ability to about access to information, present information and develop assessment.				x	
	13	To be develop itself as a parallel to developing technology.				x	
Name of Lecturer(s) and E-mail(s) of Lecturer(s)		Prof. Dr. Haluk KORALAY koralay@gazi.edu.tr					