COURSE DESCRIPTION							
Course code and title	PHYS156, PHYSICS LABORATORY						
Course Semester	1						
Course Content	Introduction of laboratory and laboratory equipment, Physical measurement and error, Export to Experimental Data to the Table, Graph drawing and using graphs, writing reports, Velocity, Acceleration, Two dimensional motion, Newton's Laws of Motion in the inclined Plane, Collisions, Simple Harmonic Motion						
Recommended or Required Reading	Laboratory Manual for General Physics, Physics 1 For Scientists and Engineers, 5 th edition, Raymond A. Serway, Robert J. Beichner						
Recommended or Required Reading	Young Freedman UniversityPhysics 13th Edition Fundamentals of Physics [10th Edition] Halliday & Resnick						
Credits of Course (ECTS)	2						
Prerequisites	Lectures must be attended by students						
Type of Course	Basic Science Education						
Language of Instruction	English						
Purpose and Object of the Course	Examining of basic mechanical events in nature with experimental and also study with fundamental information. Obtaining and learning of the experimental data and using this data						
Learning Outcomes Of The Course Unit	 Learning measurement methods and error calculation Export to Experimental Data to the Table, learning of drawing data grabenefits of the graphs and writing report Examing the results of reproducible and error-including experiments with classical mechanical formulas 						
Planned Learning Activities and Teaching Methods	Face to face						
Course Per Week	 1.Week: Introduction of laboratory and laboratory equipment 2.Week: Physical measurement and error 3.Week: Export to Experimental Data to the Table, learning of drawing data graphs, benefits of the graphs and writing report 4.Week: Making of "Velocity, Acceleration" experiment 5.Week: Evaluating of results of "Velocity, Acceleration" experiment and writing reports 6.Week: Making of "Two dimensional motion" experiment 7.week: Evaluating of results of "Two dimensional motion" experiment and writing reports 8.Week: Making of "Newton's Laws of Motion in the inclined Plane" experiment 9.Week: Evaluating of results of "Newton's Laws of Motion in the inclined Plane" experiment and writing reports 10.Week: Making of "Collisions" experiment 11.Week: Evaluating of results of "Collisions" experiment and writing reports 10.Week: Making of "Simple Harmonic Motion" experiment 13. Week: Making of "Simple Harmonic Motion" experiment 14. Week: Evaluating of results of "Simple Harmonic Motion" experiment 15. Week: Final 						
Workload	Theoretical Study Hours of Course Per Week:0 Practising Hours of Course Per Week: 2 hours Reading:0 Searching in Internet and Library:0 Designing and Applying Materials:0 Preparing Reports: 15 hours Preparing Presentation:0 Presentation:0 Mid-Term and Studying for Mid-Term: 5 hours Final and Studying for Final: 5 hours						

			Numbo]	on				
				Number		(%)				
	Mid-terms			1					20	
	Assignment			1					10	
Assessment Methods And Criteria		Exercise							0	
		Projects				0				
	Practice			5		0				
	Quiz							2		
	Contribution of In-term Studies to Overall Grade (%)									
	Contribution of Final Examination to Overall Grade (%)								60	
	Atte	endance	e			0				
				To nu of v	Total number of weeks		()	Time Weekly)	Total efficiency at the end of the semester	
	Theo Wee	oretical k	ourse Per]	14			0	0	
	Pract	ticing H	Iours of Course Pe	r Week	1	14	 	2		28
T 0" '	Reading					0	 	0		0
Efficiency	Sear	Searching in Internet and Library				0			0	0
	Designing and Materials, Applying					0			0	<u> </u> 0
	Preparing Reports]	14			1	<u> 14</u>
	Preparing Presentation					0			0	
	Presentation					0			0	0
	Mid-Term and Studying for Mid-Term			Id-Term		1			5	5
	Final and Studying for Final						1			<u> </u>
	Uther			 	0		 			1 0 1 52
	TOTAL WORKLOAD			 			 			$\frac{52}{208}$
	FCTS of Course			 			1			1 2.08
	PROGRAM			ΙΕΛΡΝΙ	NG		1	1		
Course's Contribution To Program		No	OUTC	COMES	UNU	1	2	3	4	
	1 Has necessary the practical knowled mathematics, life computation and			eoretical and lge in sciences, computer					X	
			engineering fields							
	2 Defines engineer comes up with fe analytical approa solution, selects a appropriate mode			ing problems, asible ches for the and applies ling methods					х	
			and ICT technique	es						
		3 Has the abili literature, ga up and doing analyzing the the solution of		or surveying th ring data, setti periments, sults towards in engineering		ng		X		
		4	problem Has the ability of evaluating the sys the outcome of a s problem) under re requirements and	designing tem (whic solved al life constraint	and the is				x	

		5	To realize the system design, applies efficient project management by ensuring careful		x		
	-	6	In multidisciplinary and disciplinary projects, works efficiently as a result oriented		X	-	
	-	7					
	-	8 9				-	
Name of Lecturer(s) and E-mail(s) of Lecturer(s)		Prof. Dr. Haluk KORALAY koralay@gazi.edu.tr					