

	Course name: PHYS 103 Physics Laboratory I		Department: Electrical and Electronics Engineering			Semester 1	
	Methods of Education					Credit (ECTS)	
	Lecture	Study Time	Quiz	Project	Exam (incl. Prep.)	Total	2
	30	15	0	0	15	60	
Language	English						
Compulsory/Elective	Compulsory						
Prerequisites	None						
Course Contents	Measurement, Moment, Modulus of Elasticity, Hooke's Law, Newton's 2nd Law, Moment of Inertia and Angular Acceleration, Projectile Motion, Conservation of Mechanical Energy						
Course Objective	This course aims to: <ul style="list-style-type: none"> - Familiarize the first-year students with the laboratory environment - Applications of fundamental physics laws - Teaching data collection and analysis - Experimentally testing of theoretical physics expressions 						
Learning Outcomes and Competences	By the end of this course, a student will be able to: <ul style="list-style-type: none"> - Gain the ability to use measurement devices - Develop skills for the analysis of experimental data - Gain the ability to work as a team member 						
Textbook and /or References	Main Textbooks: 1. Young & Freedman, University Physics, Vol. I, (14th Ed.), Pearson 2. Jewett and Serway, Physics for Scientists and Engineers, Vol. I (9th Ed.), Thomson						
Assessment Criteria			If any, mark as (X)	Percentage (%)			
	Midterm Exams		X	40			
	Quizzes						
	Homework						
	Projects						
	Laboratory work						
	Other						
Final Exam		X	60				
Instructors							
Weekly Schedule							
Week	Subject						
1	Measurement						
2	Moment						
3	Modulus of Elasticity						
4	Modulus of Elasticity						
5	Hooke's Law						
6	Hooke's Law						
7	Newton's 2 nd Law						
8	Newton's 2 nd Law						
9	Mid-term Exam						
10	Moment of Inertia and Angular Acceleration						
11	Moment of Inertia and Angular Acceleration						
12	Projectile Motion						
13	Projectile Motion						
14	Conservation of Mechanical Energy						
15	Conservation of Mechanical Energy						