	Course name: PHYS101 Physics I			Department: Mechanical Engineering				Semester
								1
	Methods of Education							Credit (ECTS)
	Lecture	Recitation/ (Etud)	Lab	Project/Field Study	Homework	Other	Total	6
	70	50			40	20	180	
Language	English							
Compulsory/Elective	Compulsory							
Prerequisites	None							
Course Contents	Vectors. Motion in one and two dimensions. Newton's laws and its applications. Work and Energy. Conservation of mechanical energy. Momentum and motion of systems. Static equilibrium of rigid bodies. Rotation and angular momentum. Newton's law universal gravitation.							
Course Objectives	Understanding the fracture behavior of materials.							
Learning Outcomes and Competences	Student, who passed the course satisfactorily can: 1. Basic operation with vectors(addition , scalar and vectorial product) 2. Kinematics in one and two dimensions 3. Application of Newton's laws to fundamental problems of mechanics 4. Concept of conservative force 5. Mechanics of rigid bodies rotating about a fix a axis and gyroscope motion 6. Using conservation laws when direct integration of motion is not feasible 7. Basic applications of Newton universal gravitation law							
Textbook and /or References	Physics I For Scientist And Engineers - Serway							
Assessment Criteria		If any, mark as (X)	Percentage (%)					
	Midterm Exams	X	40					
	Quizzes							
	Homeworks							
	Projects							
	Term Paper							
	Laboratory work							
	Other							
	Final Exam	X	60					
Instructors								