

## Course title: Physics

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	Physics		
Level:	Bachelor		
Course Status:	O		
Year of Study:	I		
Number of Classes per Week:	2+2		
ECTS Credits:	6		
Time /Location:	AMF 415, 10:00-11:30		
Teacher:	Prof. Dr. Rashit Maliqi		
Contact Details:	email: rashit.maliqi@uni-pr.edu. Tel: +377 45 33 77 77		
Course Description:			
Course Description:	The course includes basic knowledge of required to gain general knowledge that are basic in Engineering.		
Course Goals:	Students should understand the basic knowledge of physics at the basic level of engineering. To familiarize students with the general concepts of physical laws which apply in solving problems in Civil Engineering.		
Expected Learning Outcomes:	Students will obtained basic knowledge required basic law. With the obtained knowledge a student must take physical laws to solve problem in civil engineering. The use of physical laws in the model and solving concrete problems in civil engineering		
Student Workload (should be in compliance with student's Learnign Outcomes)			
Activity	Hours	Day/Week	Total
Lectures	2	15	30
Theoretical/Lab work	1	15	15
Practical work	1	15	15
Contacts hours with teacher Consultations during office hours	3	1	3
Field work	2	15	25
Colloquium, seminars	2	15	25
Homework	8	4	32
Self-study time (in the library or at home)	4	1	4
Final exam reparation	1	1	1
Evaluations (tests, quizzes, final exam)	1	15	15
Projects, presentations, etc.	1	15	15

<b>Total</b>		<b>150</b>
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<b>Teaching Methods:</b>	Lectures and seminar work in groups
<b>Assessment Methods:</b>	The assessment should set percentage of each rating intermedier partial or final assessment. One of the methods of evaluation will was as follows: The first evaluation: 25% Homework or other commitments 10% Regular attendance 10% Final exam 30% Total 100%

<b>Primary Literature:</b>	[1].S.Skenderi, R. Maliqi, Fizika për studentët e fakulteteve teknike, 2005, Prishtine
<b>Additional Literature:</b>	[2]. I. Serway, Physics for scientistis and engineerings, Thomson Books, 2004 [3].D. Halliday, R.Rechnick, etc, Fundamentals of Physics, Jon Wiley &Sons, 2006

### Designed teaching plan

<b>Week</b>	<b>Title of the lecture</b>
<b>Week 1:</b>	Knowing the syllabus of the subject and physics and measurements
<b>Week 2:</b>	Mechanical movements and relativity
<b>Week 3:</b>	Newton's law
<b>Week 4:</b>	Work and kinetic energy
<b>Week 5:</b>	Potential energy and energy conservation law.
<b>Week 6:</b>	Theory of Gravity
<b>Week 7:</b>	Fluid properties
<b>Week 8:</b>	Temperature and heat
<b>Week 9:</b>	Ideal gas laws
<b>Week 10:</b>	Thermodynamics
<b>Week 11:</b>	Oscillations and waves
<b>Week 12:</b>	Electric and magnetic fields
<b>Week 13:</b>	Optics light. Mirror and lents
<b>Week 14:</b>	Interferenca, diffraction and polarization of light
<b>Week 15:</b>	Quantum physics

### Academic Policies and Code of Conduct

The teacher sets the criteria for regular attendance at lectures and rules of conduct, quieting the lesson, the disconnection of mobile phones, the entrance hall with time, etc.