Identification	Subject	PHSC 111 Physic	es 1 - 6 ECTS credits	
ruchtmeation	Department	Physics and Electr		
	Program	Undergraduate		
	Term	Spring 2022		
	Instructor	Assoc. Prof. Dr. V	Vusala Eminova	
	E-mail:	vusaleeminova84@		
	Phone:	050 724 14 17	gman.com	
	Classroom/hours	10:00-15:00		
	Office hours	10:00-13:00		
Prerequisites				
	no English			
Language Compulsory/Flootive	- C			
Compulsory/Elective	Compulsory	. 1	'11 .' 1	
Description	This course covers the principles of mechanics, heat, fluids, oscillations, waves and sound. Emphasis is on conceptual development and numerical problem solving. A			
D	detailed schedule of topics can be found later in this syllabus.			
Required textbooks and course materials	Fundamentals of Physics Extended 8th Edition by Halliday, Resnick, https://drive.google.com/folderview?id=0B2q6eS6QaN-			
and course materials		<u>sharing-</u> Go to this page to dow	nload textbook	
	peakbys v ceoxy i mivicusp-	-sharing Go to this page to dow	modu textbook	
Course website	Class assignments: www.	edmodo com		
Course website	Class assignments. Www.	<u>camodo.com</u>		
Course outline	This course of physics I pro	ovide a conceptually-based exp	osure to the fundamental	
		the physical world. Lectures in		
		~ *	_	
		t, Newton's laws, fluids therm		
		Jpon completion, students shou	ild be able to describe	
	examples and applications of	of the principles studied.		
Course objectives	This course will help stude	nts to receive idea of the main	physical phenomena and the	
	major physical laws. The course of the general physics will give the chance to stude			
	to study motion laws, movement of a solid body, surface phenomena, will be able to analyze the types of motion, Newton's laws. At the end of course the students will be			
	able to understand fundamentals of classical physics, to solve physical problems of			
	mechanics and molecular physics.			
Learning outcomes		know by the end of the cours		
	Students should describe	ibe the types of motion, such	n as motion in one	
	dimension, projectile n	notion, circular motion and a	also differentiate each of	
	them.			
	• Students should apply Newton's Laws, can analyzing contact and field forces, also should know about simple harmonic motion, pendulum,			
	temperature, pressure, Archimedes principle, Buoyant force, work and energy, the types of energy, fluids dynamics.			
	• Students should solve each problem relating to these topics and answer the			
	questions easily and correctly, path the quizzes and midterm or f			
	successfully.			
Teaching methods	Lecture +			
i cacining inculturs	Seminar		+	
	Assisted work		1	
	Assisted lab work			
	Others			
	Juicis			
Evaluation	Methods)ate/deadlinec	Percentage (%)	
Evaluation	Methods Midterm Evam	Date/deadlines	Percentage (%)	
Evaluation	Midterm Exam		30	
Evaluation	Midterm Exam Class Participation and	At each lesson		
Evaluation	Midterm Exam Class Participation and Attendance	At each lesson	30 5	
Evaluation	Midterm Exam Class Participation and	At each lesson During the semester, total 2	30	
Evaluation	Midterm Exam Class Participation and Attendance Quizzes	At each lesson	30 5 20	
Evaluation	Midterm Exam Class Participation and Attendance Quizzes Activity	At each lesson During the semester, total 2	30 5 20	
Evaluation	Midterm Exam Class Participation and Attendance Quizzes	At each lesson During the semester, total 2	30 5 20	

D 11	NO CELL DISONER	
Policy	 NO CELL PHONES are allowed during lecture and lab sessions. 	
	PLEASEturn them off before lecture! (Not silent or vibrating mode)	
	 No late assignments will be accepted without prior arrangement with the 	
	instructor for acceptable excuses. Medical and family emergency will be	
	considered on case-by-case basis.	
	 No late homework will be accepted. Homework is to be completed on an 	
	individual basis. Students may discuss homework with classmates,	
	butstudents are responsible for your own work. If students have	
	consulted	

- classmates, please note the individuals name on the top of students' assignment. Quizzes may be given unannounced throughout the term and will count as onehomework. There will be no make-up quizzes. No make-up exams. If students miss an exam, a zero score will beassigned to the missed exam.
 - If students should miss class due to personal emergency or medical reasons, please notify the instructor by email immediately. A doctor's note will be required for make-up work.
 - Students are responsible for completing the reading assigned from the textbook related to the covered topics and for checking email regularly for important information and announcements related to the course.
 - University policy on academic honesty concerning exams and individual work will be strictly enforced.

BE ONTIME! Tentative Schedule					
1	(Tentative)	M. IV.	1 5 1		
1 14.02.2022 16.02.2022	Measurement and Vectors. Short description: Units of measure. Concepts	1. Fundamentals of Physics b Halliday, Chapter 3.			
	of vectors and action with them. Scalar and vectorial quantities.	2. Handnotes given by teacher			
2	21.02.2022 23.02.2022	What is physics? Motion in One Dimension. Short description:	1. Fundamentals of Physics b Halliday, Chapter 2.		
		Information on a physical concept - matter. Application of standards in physics. Units of measure. Concepts of vectors and action with them.			
3	28.02.2022	Projectile motion.	1. Fundamentals of Physics b		
	02.03.2022	Short description: Description of circular motion.	Halliday, Chapter 4.		
		Description of circular motion.	3. Handnotes given by teacher		
4	07.03.2022 09.03.2022	Concept of force. Newton's Laws.	1. Fundamentals of Physics by Halliday, Chapter 5.		
		Short description: Concept of force. Types of force and representation of force. Use of force. Concept of the center of gravity. Methods of finding of the center of gravity. Types of stability.	3. Handnotes given by teacher		
5	14.03.2022 16.03.2022	Work and Power. Work Done by a Constant Force.	1. Fundamentals of Physics b Halliday, Chapter 7.		
		Short description: Work Done by a Varying Force. Kinetic Energy and the Work–Kinetic Energy Theorem. The Nonisolated System—Conservation of Energy. Power.	3. Handnotes given by teacher		
6	21.03.2022 23.03.2022	Potential Energy. Potential Energy of a System Short description: The Isolated System Conservation of Mechanical	1. Fundamentals of Physics b Halliday, Chapter 8.		
		Energy. Conservative and Nonconservative Forces. Changes in Mechanical. Energy for Nonconservative Forces. Conservative Forces	2. Handnotes given by teacher		

7	28.03.2022 30.03.2022	Linear momentum. Impulse. Short description: Conservation of momentum. Elastic and inelastic collision.	 Fundamentals of Physics by Halliday, Chapter 9. Handnotes given by teacher
8	04.04.2022 06.03.2022	Midterm Exam Problem solving	
9	11.04.2022 13.04.2022	Simple harmonic motion Short description: Simple harmonic motion. The simple pendulum. Waves. Types of waves. Period, frequency and wave speed. Wave equations. Wave intensity.	
10	18.04.2022 20.04.2022	Quiz Problem solving	
11	25.04.2022 27.04.2022	Newton's Law of Universal Gravitation. Keepler's Law. Short description: Measuring the Gravitational Constant. Gravitational force. Keepler's Law and the motion of planets. The Gravitational field.	 Fundamentals of Physics by Halliday, Chapter 14. Handnotes given by teacher
12	02.05.2022 04.05.2022	Pressure. Buoyant Forces and Archimedes's Principle Short description: Information about pressure in liquids and gases. Concept of buoyancy. Concept and application of the law of Archimedes.	 Fundamentals of Physics by Halliday, Chapter 15. Handnotes given by teacher
13	09.05.2022 11.05.2022	Fluid Dynamics. Bernoulli's Equation . Short description: Fluid Dynamics. Bernoulli's Equation .Other Applications of Fluid Dynamics.	Fundamentals of Physics by Halliday, Chapter 15. Handnotes given by teacher
14	16.05.2022 18.05.2022	Wave motion. Short description: Propogation of a distutbance. Sinusoidal Waves. The speed of waves. Reflection and transmission. The linear wave equation.	
15	23.02.2022 25.02.2022	Kinetic theory of ideal gases. Short description: Kinetic theory of ideal gases. Barometric medium. Law of Boltzmann. The Celsius, Fahrenheit, and Kelvin Temperature Scales. Final Exam	 Fundamentals of Physics by Halliday, Chapter 21. Handnotes given by teacher

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