Identification	Subject	Physics 1, 6 ECTS				
	Department	nt Physics and Electronics				
	Program	Undergraduate				
	Term	Spring 2021				
	Instructor	Nasim Fazli				
	E-mail:	Nasim.fazli@khazar.org				
	Phone:					
	Classroom/hours					
	Office hours					
Pre re quisites	no					
	English					
Compulsory/Elective	Compulsory					
Description	This course covers th	e principles of mechanics heat fluids	s oscillations waves and			
Description	sound Emphasis is on conceptual development and pumerical problem solving.					
	detailed schedule of tonics can be found later in this syllabus					
Required textbooks	Fundamentals of Phy	vsics Halliday and Resnick 9th edition	on			
and course materials	1 unaanentais of 1 hy	sies, manaly and heshiek, shi can				
Course website						
course we usite						
Course outline	This course provides	a conceptually-based exposure to the	fundamental principles and			
	processes of the phys	ical world. Lectures include basic co	ncepts of motion. forces.			
	anargy hast Newton's laws flyids thermodynamics thermal shares were and					
	energy, near, new on	a completion students should be able	to decembe exemples and			
	energy, power. Upon	i completion, students should be able	to describe examples and			
	applications of the principles studied.					
Course objectives	This course will help students to receive idea of the main physical phenomena and the					
	major physical laws.	The course of the general physics will	Il give the chance to students			
	to study motion laws,	, movement of a solid body, surface p	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					
T	mechanics and molecular physics.					
Learning outcomes	• What students should know by the end of the course:					
	• Velocity, acceleration, types of motions, fields, Gravitation filed, harmonic					
	oscillations, pendulum, temperature, pressure, work and quantity of heat,					
	fluids, the Carnot cycle, entropy, viscosity, Stokes formula, turbulence,					
	Hook's law, simple harmonic oscillator, Doppler effect.					
Teaching methods	Lecture		Х			
	Experiential exercis	se	Х			
	Assisted work x					
	Assisted lab work					
	Others					
Evaluation	Methods	Date/deadlines	Percentage (%)			
	Midterm Exam		30			
	<b>Class Participation</b>	and At each lesson	5			
	Class Participation Attendance	and At each lesson	5			
	Class Participation Attendance Quizzes	and At each lesson During the semester, total 3	5			
	Class Participation Attendance Quizzes	and At each lesson During the semester, total 3 quizzes, for each 5 point	5			
	Class Participation Attendance Quizzes Lab Exercises	and At each lesson During the semester, total 3 quizzes, for each 5 point	5			
	Class Participation Attendance Quizzes Lab Exercises Final Exam	and At each lesson During the semester, total 3 quizzes, for each 5 point	5 15 - 50			
	Class Participation Attendance Quizzes Lab Exercises Final Exam Total	and At each lesson During the semester, total 3 quizzes, for each 5 point	5 15 - 50 100			
Policy	Class Participation Attendance Quizzes Lab Exercises Final Exam Total • No late assign	and At each lesson During the semester, total 3 quizzes, for each 5 point	5 15 - 50 100 c arrangement with the			
Policy	Class Participation Attendance Quizzes Lab Exercises Final Exam Total • No late assign instructor for acc	and       At each lesson         During the semester, total 3         quizzes, for each 5 point         mments will be accepted without prior         eptable excuses. Medical and family	5 $15$ $-$ $50$ $100$ $100$ $r arrangement with the emergency will be$			
Policy	Class Participation Attendance Quizzes Lab Exercises Final Exam Total • No late assign instructor for acc considered on ca	and At each lesson During the semester, total 3 quizzes, for each 5 point mments will be accepted without prior eptable excuses. Medical and family se-by-casebasis.	5 15 - 50 100 c arrangement with the emergency will be			
Policy	Class Participation Attendance Quizzes Lab Exercises Final Exam Total • No late assign instructor for acc considered on ca • No late home	and At each lesson During the semester, total 3 quizzes, for each 5 point ments will be accepted without prior eptable excuses. Medical and family se-by-casebasis. work will be accepted. Homework is	5 $15$ $-$ $50$ $100$ $100$ $r arrangement with the emergency will be$ to be completed on an			
Policy	Class Participation Attendance Quizzes Lab Exercises Final Exam Total • No late assign instructor for acc considered on ca • No late home individual basis.	and       At each lesson         During the semester, total 3 quizzes, for each 5 point         quizzes, for each 5 point         nments will be accepted without prior         eptable excuses. Medical and family         se-by-casebasis.         work will be accepted. Homework is         Students may discuss homework with	5 15 - 50 100 the arrangement with the emergency will be to be completed on an an classmates,but			
Policy	Class Participation Attendance Quizzes Lab Exercises Final Exam Total • No late assign instructor for acc considered on ca • No late home individual basis. students are respo	and       At each lesson         During the semester, total 3 quizzes, for each 5 point         quizzes, for each 5 point         mments will be accepted without prior         eptable excuses. Medical and family         se-by-casebasis.         work will be accepted. Homework is         Students may discuss homework with         onsible for your own work. If student	5 15 - 50 100 r arrangement with the emergency will be to be completed on an n classmates,but s have consulted			
Policy	Class Participation Attendance Quizzes Lab Exercises Final Exam Total • No late assign instructor for acc considered on ca • No late home individual basis. students are response	and       At each lesson         During the semester, total 3 quizzes, for each 5 point         quizzes, for each 5 point         nments will be accepted without prior eptable excuses. Medical and family se-by-casebasis.         work will be accepted. Homework is Students may discuss homework with onsible for your own work. If student	5 15 - 50 100 c arrangement with the emergency will be to be completed on an n classmates,but s have consulted			

classmates, please note the individuals name on the top of students'
assignment.
• Quizzes may be given unannounced throughout the term and will countas one
homework. There will be no make-upquizzes.
• No make-up exams. If students miss an exam, a zero score willbe
assigned to the missedexam.
• If students should miss class due to personal emergency ormedical
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 appoundements related to the ourse
University policy on academic honesty concerning exams and individual
work will be stricthenforced
work will be strictlyenforced.
• BE ON TIME!

Tentative Schedule				
Week	Date/Day (Tentative)	Topics	Textbook/Assignments	
1	10.02.2021 12.02.2021	Measurement	(Fundamentals of Physics, Halliday and Resnick, 9th edition) Chapter 1	
2	17.02.2021 19.02.2021	Motion along straight line	Chapter 2	
3	24.02.2021 26.02.2021	Vectors	Chapter 3	
4	3.03.2021 5.03.2021	Motion in two and three dimension	Chapter 4	
5	10.03.2021 12.03.2021	Motion in two and three dimension	Chapter 4	
6	17.03.2021 19.03.2021	Force and motion 1	Chapter 5	
7	31.03.2021 02.04.2021	Some application of Newton's laws	Chapter5	
8	07.04.2021 09.04.2021	Force and motion 2	Chapter 6	
9	14.04.2021 16.04.2021	Midterm Exam,	-	
10	21.04.2021 23.04.2021	Kinetic Energy and Work	Chapter 7	
11	28.04.2021 30.04.2021	Kinetic Energy and Work	Chapter 7	
12	05.05.2021 07.05.2021	Pontential Energy and Consevation of Energy	Chapter 8	
13	12.05.2021 14.05.2021	Potential Energy and Conservation of Energy	Chapter 8	
14	19.05.2021 21.05.2021	Center of Mass and linear momentum	Chapter 9	
15	26.05.2021 28.05.2021	Rotation	Chapter 10	
		Final Exam		

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