

Flow up of implementation celli pass play

Course Instructor	Ali Kadhim Ahmed					
E-mail	alikahdim@uodiyala.edu.iq					
Title	General Physics					
Course Coordinator	The first cou	rse.				
Course Objective	 The science of General Physics investigates the natural states of matter, the general properties of matter, the mechanical properties of matter. Introducing the student to the assumptions of kinetic theory, molecular dimensions and distances, Brownian motion Introduce students to Boyle's law, compressibility and flexibility The student got acquainted with water: its molecular structure, its hydrogen bonding, and its properties as a solvent. Study of the concept of viscosity, Newton's law of viscosity Identification of optical devices, X-rays. 					
Course Description	States of matter, mechanical properties of matter, thermal properties of matter, mechanics, water and water States.					
Textbook	Daniel Shum: shum abstracts series theories and problems in University physics - Dr.Rahim abdulkattal: University physics P1 mechanics and properties of matter - wave motion and heat					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam	
	20%	15%	5%	% 10	% 50	

General Notes	



The Ministry Of Higher Education

& Scientific Research



University: Diyala College: Agriculture Department: Soil Science and Water Resources Stage: FIRST Name: Ali Kadhim Ahmed Academic Status: Lecturer Qualification: PhD. Place of work:College Of Agriculture

Flow up of implementation celli pass play

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	14/11/2023	Natural states of matter, general properties of matter, mechanical properties of matter	Measuring devices	
2	21/11/2023	Propositions of kinetic theory, molecular dimensions and interface distances, brownian motion	The experiment of finding ground acceleration using a simple pendulum	
3	28/11/2023	Molecular velocities, molecular forces, collisions between molecules, thermal properties of matter	Finding the density of solid objects (Non-hollow)	
4	5/12/2023	Boyle's law, compressibility and elasticity	Finding the density of hollow objects	
5	12/12/2023	Mechanics: laws of force and motion, laws of motion in one dimension, free fall of objects	The experiment of finding the surface tensile coefficient by the capillary tube method	
6	19/12/2023	About Newton's laws of motion: the first law of motion, the second law of motion, Newton's law of general attraction	The experiment of finding the surface tensile modulus by the gaiker method	
7	26/12/2023	Water: its molecular structure, its hydrogen isotropy, and its properties as a solvent	Experiment with finding relative humidity using a humidifier (with wet and dry editors)	
8	9/1/2024	Surface tensile strength, seam angle, capillary property	Experiment with finding the mixing ratio of water vapor in the air	
9	16/1/2024	Diffusion, osmotic phenomenon	Experiment of finding the refractive index of a glass material for a triple prism using a spectrometer	
10	23/1/2024	Viscosity, Newton's law of viscosity	The experiment of finding the internal resistance and electromotive force of an electric cell	
11	30/1/2024	Fluid flow, fluid pressure, Boiselle's law	Atmospheric pressure measurement experiment using Boyle's law	
12	6/2/2024	Stoke's law, its derivation and applications	The experiment of finding the viscosity of water by the flow method	
13	13/2/2024	Volumetric and weight relations, body density, porosity, surface area and quality	The experiment of finding the speed of sound in the air	
14	13/2/2024	Optical devices, X-rays	General review	

Dean Signature: 15 / 1 / 2025

Ani

Dr. Ali Kadhim Ahmed Instructor Signature : 15 / 1 2025