Akashi College		Year 2022			Course Title	Introduction to Physics A				
Course	Informa	tion								
Course Code 4414					Course Category	y Specializ	zed / Compulsory			
Class Format Lecture				Credits	School (Credit: 1				
Department Architect		ıre		Student Grade	4th	4th				
Term First Sem			ester		Classes per Wee	ek 2	2			
Textbook Teaching										
Instructor	<u> </u>									
Course	Objectiv	es								
(1) Under (2) Under mechanic	rstand the rstand the s.	description of basics of ho	of motion of an own to handle the ermodynamics.	object and the fun system of particle	damental laws of s including the rig	mechanics. gid body, base	d on the fundamental laws of			
Rubric										
			Ideal Level		Standard Level		Unacceptable Level			
Achievement 1			Can explain the description of the motion of an object and the fundamental laws of dynamics		Can explain the description of the motion of an object and the fundamental laws of dynamics, and apply them to specific questions.		Cannot explain the description of the motion of an object and			
Achievement 2			Can explain the basics of how to handle point masses based on the fundamental laws of mechanics correctly, and apply		Can explain the basics of how to handle point masses based on the fundamental laws of mechanics, and apply them to specific questions.		how to handle point masses based on the fundamental laws			
Achievement 3		Can explain the basic concepts of thermodynamics correctly		Can explain the basic concepts of thermodynamics and apply them to specific questions.		Cannot explain the basic concepts of thermodynamics or apply them to specific questions.				
Assigne	d Depar	tment Obj	ectives							
Teachin	g Metho	d								
Outline		In this commathema second se	tical techniques	and the first steps (calculus and vect	s in thermodynar or calculation). M	nics will be tau lechanics is co	ght, including the necessary ntinued from Science IIIA (the			
Style		Classes w	ill be taught in a	lecture style, and	l there will also b	e exercises an	d quizzes.			
Notice	Instead of learning each knowledge (the result of applying the law to a particular situation, how to solve problem) by memorizing it individually, students should understand the laws that govern them (including being able to apply them to specific situations). Also, students should be aware of the relationships betwork the various laws, and try to understand concepts in physics systematically. Students can earn extra points by submitting voluntary assignments, and lose their points depending on attitude, etc. in the class. Students who miss 1/3 or more of classes will not be eligible for a passing grade.									
Charact	eristics	of Class / I	<u>Division in Le</u>	arning						
☐ Active Learning			☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced			
Course	Dlan									
Course	lull	Тт	heme		T,	Goals				
			Motion of an object, and force and e				ndle motion of objects in planes			
1st Semeste r	1st Quarter	1st M	riotion of an obje		and spaces.					
		2nd M	otion of an obje	ect, and force and	energy I	Learn about the laws of motion.				
		3rd M	otion of an obje	ect, and force and	energy I	Learn the basics of mechanical energy.				
		4th L	aw on momentu	ım and angular me	omentum I	Learn about the laws of momentum.				
		5th L	aw on momenti	ım and angular me	omentum I	Learn about the laws of angular momentum.				
		6th L	aw on momenti	ım and angular m	omentum	Learn about the laws of angular momentum in the system of particles.				
		7th R	tigid body dynamics			Learn how to handle rigid bodies with a fixed axis.				
		8th M	lidterm exam							
	2nd Quarter	9th R				Learn how to handle rigid bodies without fixed				
			igid body dynamics			axes. Learn the basics of momentum, angular momentum, and energy in the mechanics of rigid bodies.				
		11th V	laves			Learn how to derive wave equation based on the				
						law of motion. Learn the basics of wave phenomena				
			/aves			Learn the basics of wave phenomena.				
			asics in thermodynamics			Learn the basics of thermodynamics.				
			Basics in thermodynamics			Learn how to handle the Carnot cycle. Learn about the irreversible change.				
			Basics in thermodynamics			Learn about th	e in eversible Change.			
	<u> </u>	TOUI F	Final exam							

Evaluation Method and Weight (%)								
	Examination	Exercises / Little test	Total					
Subtotal	60	40	100					
Basic Proficiency	0	0	0					
Specialized Proficiency	60	40	100					
Cross Area Proficiency	0	0	0					