Science 3 (Physics)

Basic Course Information			
Course Number	02005021	Subject Category	Compulsory(GI
Class Format	Cectore	Credit Type and Number of Credits	1
Department	Computer	Student Category	Year 2
Period of Study	Semester 1	Classes per Week	2
Required Materials	Atoms H I Ishin et al. Morkitt	a Publishing Co. Ltd ISE	NG78-4-627-15521-3
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Course Objective

The control of the Course of representative problems that require a pand invalidate and application of physics.
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Evaluation (Rubrio)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)	
Understanding concepts of physics and their	Ability to correctly understand and explain concepts in Physics and connect with real life experiences.	explain concepts in	Lacks the appropriate knowledge and understanding of concepts in Physics, Weak connection among these concepts	
Mastering mathematical and graphical expressions skills.	Ability to describe equations and show good understanding by using graphs with necessary details and vice versa	Ability to describe equations and show understanding by using graphs and vice versa but not in details	Equations are limited or inaccurate. Graphs are incomplete or absent.	
Problem Solving	Ability to provide a clear and logical expression from general concepts 'equations to solve specific problems with different conditions, All final numerical enswers are correct with appropriate units and calculations	concepts/equations to solve specific	Provide an unclear logical progression or solution which is very difficult to follow, Major algebraic and/or othe mathematical mistakes in solution.	

Relationship with Learning Outcomes

GHI Wide Innovindes on Science and Engineering and practical ability to apply them to solve problems in the
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Outline Students will study bears concepts and principles of fluid

Class Format Lacture search as MPFLSs and Services or the ord in conFlesson Mode : The situated recoverable for the confidence of the ord in con-

	Semester 1	Contents and Method of Course	Goele	Related MCC	
Strd veels	1st week	Introduction and Fluid mechanics 1	Guidance and appreciation of pressure, buoyant forcos, and Archimedes' principle		
4th years. A	2nd week	Fluid mechanics 2	Appreciation of fluid dynamics. Bernoulli's equation, flows of viscous fluid in pipes, and Mini-Lab.		
Temperature and Heart (1) Societic Heat and Heat Control of Cont	3rd week	Elasticity	sticity Understanding elastic properties of solids.		
Temperature and Heart 11 Specific Heart and Heart Conscious Part Specific Heart and Heart Temperature and Heart (2) Thermal department and Experiment and Experiment Annual Specific Heart Temperature and Heart (2) Thermal department and Experiment and Experiment Annual Specific Heart Temperature and Heart (2) Thermal department and Experiment and Experiment Annual Specific Heart Annua	4th week	Introduction to thermodynamics		II-A 1 42 II-A 1 43	
City week Temperature and Heat (2) Thermal expansion and Approximation of connects and the state of the research of the state of the research and the research and the research and the state of the research and	5th week	Temperature and Heat (1) Specific Heat and Heat Capacity	heat capacity and specific heat of objects. Write a		
Perdox and summarized Perd	6th week	Temperature and Heat (2) Thermal expansion and Temperature measurement			
9th week Medium Evenimation For week 1-8 10th week Petrum Midderm Evenimation For week 1-8 10th week Petrum Midderm Evenimation Gale leves Grand Feedback Pewdew Norming 11th week Gale leves Grand Feedback Pewdew Norming 11th week Gale leves Grand Feedback Pewdew Norming 12th week Petrum Midderm Evenimation of asset in the value of asset and value of v	7th week	Temperature and Heat (3) Change of State and Latent Heat	Appreciation of concepts of temperature and heat about change of state and latent heat		
10th week	Sth week	Wrap-up of 1st half of semester (Review)	Review and summarize learning		
The week	9th week	Midterm Examination	For week 1-8		
11th week	10th week	Return Midterm Exam Papers and Feedback			
12th week	11th week	Gas laws	Perform calculations relating to pressure, temperature and volume of gas using Gas laws and the equation of state for the ideal gas, and Mini-Lab II.		
1-3th veels	12th week	Kinetic energy of gas	Explain the kinetic energy of a gas by utilizing the relevant principles associated with its molecular		
15th week Thermoderanics process 23 and Thermal code Contraction from the process week and Thermoderanics process 25 and Thermal code Thermoderanics of Code Thermal code Thermoderanics of Code Thermoderanic	13th week	Internal energy of gas	Explain the internal energy of gas.	I-A 1 48	
16th week	14th week	First law of thermodynamics and thermodynamic process (1)	Explain the first law of thermodynamics, as well as isochoric change, isobaric change, isothermal change and adiabatic change,	I-A 1 49	
17th week	15th week	Thermodynamics process (2) and Thermal cycle	Continuation from the previous week and introduce of thermal cycles.		
1881 week Wash-so of 2nd half of semester (Revised Previous and summarize Barning) 19th week Finel Eventhalizan For week 11-18 20th week Return Eventhalizan Fredback and Special Serving and summarize Barning Seeding and Serving	16th week	Heat engine (1)	Perform calculations relating to thermal efficiency of heat engines.		
19th week Frail Exemination For week 11-18 20th week Reurn Exem Placers and Feebback and Special Serving Serv	17th week	Heat engine (2)	Perform calculations relating to thermal efficiency of heat engines.		
20th week Return Evern Packers and Feedback and Social Review and summerice sessions Com	18th week	Wrap-up of 2nd half of semester (Review)	Review and summarize learning		
sessions learning	19th week	Final Examination	For week 11-18		
	20th week	Return Exam Papers and Feedback, and Special sessions	Review and summarize learning		
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		Examination Gutz	Maturi Crekatore between students	Report Portido Other	

	Examination	Quiz	Maked Evaluations between students	Report	Porticio	Other
Basic Ability	60	30		10		
Technical Ability						
Interdisciplinary Ability						