LESSON PLAN No. of classes available per week-4 Total period available-60 Class duration-55 minutes 2ND SEMESTER

		DEPARTMENT OF MATH & SCIENCE
Discipline: Math & Science	Semester: 2nd	Name of the Teaching faculty: NIRUPAMA PANDA, Sr. Lect in Math & Sc(Phy)
Subject: Engg. Physics(Th- 2A)	No of Days/Week class alloted: 4	Semester from Date: 14/03/2022 To Date: 18/06/2022 No of weeks: 15
Week	Class Day	Topics
1st	1st	i) introduction to Units
		ii)System of units
	2nd	Dimensions and Dimensional formula
	3rd	Application to dimensional Analysis
	4th	i) Identification of Scalar and vector quantities
inakan dalah samuan dalah d	-programmer will be consistent about the constant will be consistent with the constant $1st$	i) Types of vectors
2nd		ii) Vector addition
	2nd	i) Multiplication of Two vectors(Dot product)
	3rd	I) Cross Product
		i) concept of rest and moving body
	Ath	ii) Equation of motion under gravity
	1.st	i)Solving Numericals
3rd -	2nd	i) Circular motion
	3rd	i) Solving numericals
	A STATE OF THE PARTY OF THE PAR	i) Projectile motion.
	Ath	ii) Facts about Projectile.
4th	161	i) Projectile fired horizontally by making an angle
	2nd	1) Work
	3rd	i) Friction
		ii) Types of Friction

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	4th	i) Laws of limiting Friction	- K
5th	1st	i) coefficient of friction	
	231	ii) Methods of reducing Friction	
	2nd	i)Numericals	
		ii) Class test 1 conducted	
C (1/15.54.0)	3rd	i) Gravitation	
		ii) Newtons laws of Gravitation	S ²
	4th	i) Relation between g and G	
		ii) Universal gravitational constant	
6th	1st	i) Variation of g with altitude and depth	
	2nd	i) Keplers laws of Planetary motion	
	3rd	i)Numericals	
	4th	i)Oscillations(Simple Harmonic Motion)	
	1st	i) Characteristics of SHM	
	2nd	i) Numericals	
7th	1 1 1 mg 1 8	i) Waves	
	3rd	ii) Types of wave motion	
	4th	i) Properties of wave motion	
	1st	i) Ultrasonics	
		i) Heat	
	2nd	ii) Specific heat	
8th		i) Latent heat	
	3rd	ii) Numericals on heat	
	4th	i) Thermal expansion(Examples)	
		ii) Expansion coefficients	
	1st	i) Derivation of expansion coefficients	
	2nd	i) Relation between expansion coefficients	
9th	Znu	i) Work and heat	
	3rd	ii) First law of Thermodynamics.	
	4th	i) Numericals	
	4(1)	i) Optics	
10th	1st		
		ii) Reflection & Refraction	
	2nd	i) Refractive index	
	Book Street	ii) Numericals	Y
	3rd	i) Critical angle & Total Internal Reflection	-1
	4th	i) Refraction through Prism	
		ii) Fiber optics	
	1st	i) Electrostatics	- 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19
11th		ii) Coulombs laws	
	2nd	i) Electric potential	

		ii) Electric field
		iii) Electric capacitance
	3rd	i) Grouping of capacitors
		ii) Numericals
	4th	i) Magnetostatics
12th	701	ii) Coulombs laws
	1st	i) Magnetic field
		ii) Magnetic field intensity
	2nd	i) Magnetic lines of force
	3rd	i) Magnetic flux
	4th	CLASS Test 2 conducted
		i) Concept of electric current
	1st	ii) Ohm's law and its application
13th	2nd	i) Grouping of resistors ii) Numericals on series and parallel combination of resistors
	3rd	Kirchhoff's law
	4th	i) Numericals
	1st	i) Application of Kirchhoff's law ii) Balanced condition of wheatstone bridge
	2nd	i) Electromagnetism
14th		ii) Force on a conductor in a uniform magnetic field
	3rd	i) Fleming's left hand rule
		The state of the s
		Wil Comparison between Electromagnetism and Electromagnetism
	4th	i) Faraday's laws of Electromagnetic Induction
	701	I) Fleming's right hand rule
	1st	The state of the s
		ii) Lenz's law iii) Comparison between Fleming's left hand and right hand rule
	J	A simple numericals
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15th	2nd 3rd	i) LASER(Spontaneous and stimulated emission) i) Principle, properties and application of LASER

signature of Faculty