

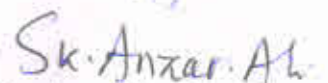
Lesson Plan

Subject: Physics (Code) Th2a Name of faculty: Sk. Anzar. Al.
 Semester: 2nd Class allotted: 60 Branch: Civil & electrical & Metallurgy
 Session: 2023(5) - 2024

Discipline	Semester	From Date:	To date:	Teaching Aid
Subject:	No. of days/per week	Theory /Practical-topics / Lesson		
Week	Date/Period			
1	20/03/23 to	Physical quantities - Def ⁿ , fundamental & derived units, FPS, CGS, MKS, SI units		Whiteboard and marker
	25/03/23	Dimensional formulae, Dimensional correctness Scalar & vector - (def ⁿ , concept), vector representation, types of vector.		
2	27/03/23 to	Triangle & Parallelogram law of Addition, Numericals. Resolution of vector, scalar & vector product. concept of Rest motion		Whiteboard and marker
	31/03/23	Displacement, speed, velocity, Acceleration eq ⁿ of motion under gravity.		
3	03/04/23 to	Angular displacement, Angular velocity Acceleration, Relation- linear & Angular velocity, linear & angular Acc ⁿ , Projectile-Def ⁿ		Whiteboard and marker
	08/04/23	eq ⁿ of trajectory, Time of flight, max ^m height Range for Projectile fired at an angle, cond ⁿ of horizontal Range		
4	10/04/23 to	Work - Def ⁿ , formula, unit, Friction Types of friction, Limiting friction, Laws of limiting friction, coefficient of friction-Def ⁿ		Whiteboard and marker
	15/04/23	Formula, Numericals, extra question.		
5	17/04/23 to	Methods to reduce friction Newtons law of gravitation, G-Def ⁿ , unit, Dimension Acc ⁿ due to gravity (g) Def ⁿ , concept.		Whiteboard and marker
	22/04/23	Def ⁿ of mass, mass & weight relation Relation between g & G.		
6	24/04/23 to	Variation of g with altitude & depth Kepler's law of Planetary motion SHM-Def ⁿ , e.g, velocity expression, eq ⁿ for		Whiteboard and marker
	29/04/23	Displacement, acc ⁿ , velocity of a body or particle in SHM		
7	01/05/23 to	Wave motion - Def ⁿ , concept, Transverse wave Longitudinal wave → Def ⁿ of amplitude, frequency, time period, Rel ⁿ - velocity, frequency, λ		Whiteboard and marker
	06/05/23	Ultrasound - Def ⁿ , Properties & Application of ultrasonic		



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Week	Date/Period	Theory / Practical-topics / Lesson	Teaching Aid
8	08/05/23	Heat & Temp - Def ⁿ , Difference, unit of heat	White board
	to	Specific heat, change of state, latent heat, Numerical, dimension, Thermal Expansion	and marker
	13/05/23	Expansion of Solids, coefficient of linear Superficial & cubical expansion of Solids	
9	15/05/23	Relation between α , β , γ	White board
	to	Work & heat - concept & Relation	and
	20/05/23	Joules Equivalent of heat, 1 st law of thermodynamics, optics - Reflection, Refraction Concept, Def ⁿ , laws of reflection & refraction	marker
10	22/05/23	Refractive index, critical angle, TIR,	White board
	to	Refraction through prism	and
	27/05/23	Fibre optics - Def ⁿ , properties, Application	marker
11	29/05/23	Electrostatics - Def ⁿ , concept, Coulombs law	White board
	to	Def ⁿ , concept, unit charge	and
	03/06/23	Absolute & Relative permittivity (ϵ), Electric field, Electric field intensity (E), capacitance Series connection, parallel connection	marker
12	05/06/23	of capacitor, Magnet - properties, Coulombs law in magnetism Explanation, unit pole, problem	White board
	to	Magnetic field, H - Definition, formula, unit magnetic flux (Φ), magnetic flux density (B)	and
	10/06/23	Electric current - Def ⁿ , formula (Ohm's law) Series connection & Numericals parallel connection & Numericals	marker
13	12/06/23	Kirchhoff's law (Statement & Explanation)	White board
	to	Application of Kirchhoff's law & Numericals	and
	17/06/23	Wheatstone Bridge - condition of Balance	Marker
14	19/06/23	Electromagnetism, Fleming's Left hand Rule	White board
	to	Laser & Laser beam - concept - Definition	and
	24/06/23	Force acting on a conductor in uniform magnetic field Faraday's law of electromagnetic induction, Lenz's law, Fleming's Right hand rule comparison bet ⁿ Left hand, Right hand of Fleming.	marker
15	26/06/23	Principle of Laser, properties of laser	White board
	to	Application, wireless transmission.	and
	27/06/23		marker



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