		SYNERGY POLYTECHNIC, BBSR
The Lesson Plan	-	
Descipline:	Semester:1	Name of the Teaching Faculty: Swati Priya Pany
S <mark>ubject: Physics</mark>	No of Days/per week	Semester from Date: 1/8/2023 to Date: 11/11/2023
- CONTRACTOR OF THE PROPERTY O	class allotted:	No of Weeks:15
Week	Class Day	Theory/Practical Topics .
1st	1st	Physical quantity and defination of fundamental & derived units
	2nd	Dimension formula of physical quantity
	3rd	Principle of homogeneity & correctness of physical relation
	4th	Scalar & vector quantities, e.g, .Types of vectors
	5th	LAB- Find the cross sectional area or a wire using screw gauge
2nd	1st	Law of vector addition & resolution of vector
	2nd	vector multiplication
	3rd	concept of rest &Motion, Displacement, speed, velocity etc
	4th	equation of motion under gravity
	5th	LAB- Find the thickness & volume of glass piece using screw gauge
3rd	1st	Circular motion, angular displacement, angular velocity & acceleration
	2nd	relation between linear & angular velocity & angular acceleration
	3rd	projectile, e.g of projectile, equation of trajectory, time of flight
	4th	maximum height, horizontal rangefor projectile
	5th	LAB-Find the volume of a solid cylinder by using vernier callipers
	1st	WORK &Friction- definition,formula, SI Units
	2nd	Types of friction, limiting friction
4th	3rd	Laws of limiting friction
	4th	coefficient of friction
WAR-2-1	5th	Find the volume of a hollow cyllinder by using vernier callipers
	1st	Methods of reduce friction
	2nd	Newton's law of gravitation, universal gravitational constant-definition
5th	3rd	Acceleration due to gravity, definition of mass and weight
	4th	Relation between g & G
	5th	LAB-Find the radius of curvature of convex surface using Spherometer
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Descipline:	Semester: 1	Name of the Teaching Faculty: Swati Priya Pany
Subject: Physics	No of Days/per week	Semester from Date: 1/8/2023 to Date: 11/12/2023
	class allotted:	No of Weeks:15
Week	Class Day	Theory/Practical Topics
6th	1st	Variation of g with altitude & depth
	2nd	Kepler's law of planetory motion
	3rd	Simple harmonic motion, expression for displacement, velocity
	4th	expression for acceleration. Wave motion-definition & concept
	5th	LAB-Find the radius of curvature of concave surface using Spherometer
7th	1st	Transverse & longitudinal wave- defination & example, comparison
	2nd	wave parameters- amplitude.wave length, frequency, time period
	3rd	Realtion between velocity, frequency, wavelength of a wave
	4th	Ultrasonic-definition, properties, application
	5th	LAB- Determine the angle of Prism
Bth	1st	Heat & temp definition,units, difference
	2nd	specific heat, latent heat-concept, definition, unit
	3rd	thermal expansion, expansion in solid
	4th	coefficient of linear, superficial & cubical expansion of solids
	5th	LAB- Determine the angle of minimum deviation bt I-D curve method.

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		Relation between α, β and γ
9th	1st	
	2nd	Work & Heat-concept and relation
	3rd	Joule;s law & 1st law of thermodynamics
	4th	Reflection & Refraction, laws of reflection & refraction
	5th	LAB-Trace the lines of forces due to a Bar magnet north pole pointing north.
10th	1st	Refractive index, critical angle and total internal reflection
	2nd	Refraction through through Prism
	3rd	Fibre Optics
	4th	Electrostatics-concept, Coulomb's law
	5th	LAB-Trace the lines of forces due to a Bar magnet north pole pointing south.
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Descipline:	Semester: 1	Name of the Teaching Faculty: Swati Priya Pany
Subject: Physics	No of Days/per week	Semester from Date: 1/8/2023 to Date: 11/13/2023
	class allotted:	No of Weeks:15
Week	Class Day	Theory/Practical Topics
	1st	Electric potential, potential difference, electric field, field intensity
	2nd	Capacitance, series and parallel connection of capacitors
11th	3rd	Magnet-properties of magnet
	4th	coulomb's law of magnetism
	5th	LAB-Verify Ohm's law by Ammeter.
14	1st	Magnetic field, field intensity, magnetic lines of forces
	2nd	magnetic flux, flux density-definition,formula ,unit
12th	3rd	Electric current-definition, formula
	4th	Ohm's law and application
	5th	LAB
	1st	Resistors, series and parallel combination of resistors
ı	2nd	Kirchoff's law
13th	3rd	Application of kirchoff's law
	4th	Wheatstone's Bridge- balancing condition
-	5th	LAB
14th .	1st	Electromagnetism-definition and concept
	2nd	force acting on a current carrying conductor placed in a uniform magnetic field
	3rd	Faraday law of electromagnetism, Fleming's Left & right hand rule
	4th	Lenz's law ÷—
	5th	LAB
15th	1st	comparision between Fleming's left hand & right hand rule
	2nd	LASER, Principle of LASER
	3rd	Propereties and application of LASER
	4th	Wireless transmission
	5th	LAB
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