LESSON PLAN

DISCIPLINE: MATH & SCIENCE	SEMESTER: FIRST	NAME OF THE TEACHING FACULTY: TAPASWINEE PATNAIK, LECT. (PHYSICS)

SUBJECT: ENGG. PHYSICS	NO. OF. CLASSES ALLOTED PER WEEK	SEMESTER FROM 25/10/2022 TO 29/02/2023
WEEK	**CLASSDAY**	**THEORY**
1ST	1ST	Work- Formula & SI units.
	2ND	Friction – Concept. Types of friction (static, dynamic), Limiting Friction
2ND	1ST	Laws of Limiting Friction
	2ND	Coefficient of Friction , Numericals.Methods to reduce friction.
3RD	1ST	Numericals, Class Note Checking
	2ND	Newton's Laws of Gravitation, Universal Gravitational Constant
4TH	1ST	Acceleration due to gravity ,Concept of mass and weight.
	2ND	Relation between g and G.Variation of g with altitude and depth
5TH	1ST	Kepler's Laws of Planetary Motion
	2ND	Numericals, Class Note & Assignment Checking
6TH	1ST	Oscillations,Simple Harmonic Motion (SHM)
	2ND	Expression for displacement, velocity, acceleration of a particle in SHM.
7TH	1ST	Wave motion, Transverse and Longitudinal wave
	2ND	wave parameters & their relations
8TH	1ST	Ultrasonics Properties & Applications.
	2ND	NUMERICALS
9TH	1ST	Heat and Temperature
	2ND	Specific Heat Capacity
10TH	1ST	Thermal Expansion
	2ND	Coefficient of linear, superficial and cubical expansions of Solids & their Relation
11TH	1ST	Work and Heat, Joule's Mechanical Equivalent of Heat
	2ND	First Law of Thermodynamics
12TH	1ST	Change of state ,Latent Heat
	2ND	NUMERICALS
13TH	1ST	Reflection & Refraction
	2ND	Refractive index, Refraction through Prism (Ray Diagram)
14TH	1ST	Critical Angle and Total internal reflection
	2ND	Fiber Optics & Numericals
15TH	1ST	LASER -Properties & Applications
	2ND	Principle of LASER

25.10.2022
Signature of Faculty

25/10/22
Signature of HOD