JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : Diploma in Engineering	**Session : 2022-2023**	**Year : 1**	**Sem: 1**
Course: Basic Physics I			
Name of the Faculty: Dr. Shraddha Prasad	**Commencement Date:19/9/2022**		**Date of Closure:30/12/2022**

Lecture No.	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
			ICT Tool/Platform/ LMS	Resources	Activity							
1	1	Introduction: Need for measurement, units of measurement.Fundamental units and derived units										
2	1	Dimensions of physical quantity										
3	1	Dimensional analysis.										
4	1	Application of dimensional analysis.										
5	1	Limitation of dimensional analysis.										
6	2	Introduction to Frame of reference										
7	2	Motion in a straight line.										
8	2	Average Speed, Instantaneous Velocity										
9	2	Uniform and non uniform motion.										
10	2	Position Time Graph										
11	2	Velocity Time Graph										
12	2	Three Equation of Motion										
13	2	Three Equation of Motion -Graphical Treatment										

14	2	Relative Velocity										
15	2	Problem based on three equation of motion										
16	2	Newton's laws of motion										
17	2	Application of Newton's law										
18	2	Law of conservation of linear momentum										
19	2	Friction										
20	2	Friction-Law of Friction										
21	2	Static Friction, Kinetic friction and Rolling Friction										
22	2	Circular motion										
23	2	Revision										
24	3	Work done by constant force and a variable force										
25	3	Work-energy Theorem										
26	3	Power, Potential energy.										
27	3	Conservative force, Non Conservative force, Collisions										
28	3	Numerical										
29	3	Revision										
30	4	Rotational motion,Comparision of linear and rotational motions										
31	4	Torque, Angular momentum										
32	4	Centre of mass of a two- particle system										
33	4	Simple harmonic motion										
34	4	Free and forced oscillation. Resonance.										
35	All Unit	Revision										
36	All Unit	Revision										