LESSON PLAN- B.Sc 1st SEMESTER
Session: 2022-23

Name of teacher- Dr. Naveen Kumari, Assistant Professor

Subject- Physics

CLASS	WEEKS	SYLLABUS
B.Sc 1st Semester	22-8-2022 to 27-8-2022	Mechanics of a single particle, conservation law of linear and angular momentum
	29-8-2022 to 3-9-2022	Conservation law for Energy of single particle
	5-9-2022 to 10-9-2022	System of particles, centre of mass and its equation of motion.
	12-9-2022 to 17-9-2022	Conservation law of linear and angular momentum and energy of single particle
	19-9-2022 to 24-9-2022	Test of Unit 1 Generalised coordinates, Generalised form of velocity, acceleration
	26-9-2022 to 1-10-2022	Momemtum in Generalised Coordinates
	3-10-2022 to 8-10-2022	Force and potential energy in terms of generalised coordinates
	10-10-2022 to 19-10-2022	Test of Unit 2

	27-10-2022 to 5-11-2022	Hamilton's variational principle, Derivation of Lagrange's equation of motion from Hamilton's principle
	7-11-2022 to 12-11-2022	Application of Lagrange's equation of motion : Linear harmonic oscillator, Simple pendulum,
	14-11-2022 to 19-11-2022	Atwood's machine, Numerical related problems,
	21-11-2022 to 26-11-2022	Moment of inertia, Torque, Angular momentum, kinetic energy of rotaion, Theorems of perpendicular and parallel axes with proof Numerical problems,
	28-11-2022 to 3-12-2022	M.I of solid sphere, M.I of Hollow sphere, M.I of of spherical shell and solid cylinder
	5-12-2022 to 10-12-2022	M.I of hollow cylinder and M.I of solid bar of rectangular cross-section, Acceleration of a body rolling down an inclined plane
	12-12-2022 to 17-12-2022,	Assignments, Viva, Test, Revision
	17-12-2022 onwards	MDU examination