

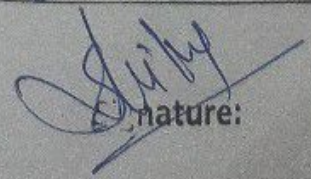
SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: B.Sc-1st Sem
 Subject: Classical Mech.

Semester: ODD/EVEN
 Session: 2020-21

Lecture Number	Topic
Lect 1	Mechanics of single and system Particle.
Lect 2	Conservation laws of single Particle.
Lect 3	Conservation laws of many Particle.
Lect 4	Centre of mass and equation of motion.
Lect 5	Constrained motion and types, Examples.
Lect 6	Degree of freedom, types
Lect 7	Numerical Problem.
Lect 8	Generalised co-ordinates, Generalized displacement
Lect 9	Generalised velocity, acceleration, momentum
Lect 10	Generalized force, Generalized potential.
Lect 11	Hamilton's variational principle.
Lect 12	Lagrange's equation of motion.
Lect 13	Linear harmonic oscillator, Simple pendulum
Lect 14	Atwood machine, Numerical Problem on Lagrange eqn.
Lect 15	Numerical Problem on Hamilton principle.
Lect 16	Rotation of Rigid body, moment of inertia
Lect 17	torque, angular momentum, K.E of rotation.


 Signature:

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Lecture Number	Topic
Lect 18	Theorem of \perp axis with proof.
Lect 19	Theorem of \parallel axis with proof.
Lect 20	Moment of inertia of solid sphere and hollow sphere.
Lect 21	Moment of inertia of spherical shell.
Lect 22	Moment of inertia of solid cylinder.
Lect 23	Moment of inertia of hollow cylinder and solid bar
Lect 24	Acceleration of body rolling down on an inclined plane
Lect 25	Moment of inertia of Rectangular lamina.
Lect 26	K.E of a Rolling Body on Horizontal plane.
Lect 27	Numerical Problems.

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