SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class:B.sc 1st   Semester: 2nd

Subject:physics (mechanics)   Session: 2021-22

Lecture Number	Topic
1	Introduction to properties of matter (Elasticity)
2	Elasticity, Hook's law,stress,strain
3	Elastic constants, poisson's ratio
4	Relation between elastic constants
5	Torsion of a cylinder and twisting couple
6	Bending of beam, bending moment
7	Cantilever
8	Centrally loaded beam
9	Introduction to kinetic theory of gases
10	Law of equipartition of energy
11	Specific heats of gases
12	Maxwell's distribution law of speed
13	Maxwell's distribution law of velocity
14	Most probable speed, average and r.m.s speed,
15	Transport phenomenons
16	Introduction to their of relativity
17	Gallilian transformation, Newtown relativity principal
18	Michelson- Morley experiment
19	Lorentz transformation

20	Length contraction,time dilation
21	Velocity addition theorem, variation of mass with velocity
22	Mass- energy equivalence

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