|  |  |
| --- | --- |
| WEEKS | SYLLABUS |
| 10-01-2023 to 31-01-2023  01-02-2023 to 04-02-2023  06-02-2023 to 11-02-2023  13-02-2023 to 18-02-2023 | **B.Sc 1st, 3rd, 5th semester PRACTICAL EXAMINATION**  **Properties of Matter** (Elasticity) : Elasticity, Hooke’s law, Elastic constants and their relations  Poisson’s ratio, torsion of cylinder and twisting couple. Bending of beam (bending moment and its magnitude)  Cantilevers, Centrally loaded beam. **Assignment + Unit Test)** |
| 20-02-2023 to 25-02-2023  27-02-2023 to 04-03-2023  13-03-2023 to 18-03-2023  20-03-2023 to 25-03-2023  27-03-2023 to 01-04-2023 | **Kinetic Theory of Gases** : Assumptions of Kinetic Theory of gases, Law of equipartition of energy and its applications for specific heats of gases.  Maxwell distribution of speeds and velocities (derivation required), Experimental verification of Maxwell’s Law of speed distribution  most probable speed, average and r.m.s. speed, mean free path. Transport of energy and momentum, diffusion of gases.  Brownian motion (qualitative), Real gases, Van der Waal’s equation. . **(Assignment + Unit Test)** |

**LESSON PLAN- B.Sc 2nd SEMESTER**

**SUBJECT**- PHYSICS **TEACHER’S NAME**- Dr. Naveen Kumari

**SESSION- 2023-23**

|  |  |
| --- | --- |
| 03-04-2023 to 08-04-2023  10-04-2023 to 15-04-2023  17-04-2023 to 22-04-2023  24-04-2023 to 29-04-2023  01-05-2023 to 06-05-2023  08-05-2023 to 13-05-2023 | **Theory of Relativity :** Reference systems, inertial frames, Gallilean invariance and Conservation laws,  Newtonian relativity principle, Michelson - Morley experiment: Search for ether.  Lorentz transformations length contraction, time dilation, velocity addition theorem  variation of mass with velocity and mass energy equivalence.  **(Assignment + Unit Test)**  **REVISION** |
| 15-05-2023 to 16-05-2023  17-05-2023 onwards | Revision  MDU examination |