**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (UG 1st Year)**

**Session (2021-2022)**

**Class: BSc First Sem**   **Name of the Teacher: Dr. Harjeet kaur**

**Subject: Physics Period : 1st**

**Paper : B Room No : 129**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 1-09-2021 to 04-09-2019 | Admissions |
| Week 2 | 06-09-2021 to 11-09-2021 | Admissions |
| Week 3 | 13-09-2021 to 18-09-2021 | Periodic Motion, Defns, SHM, displacement, velocity, accel, Projection, Graphical, Diffn eqn |
| Week 4 | 20-09-2021 to 25-09-2021 | Energy of SHM, Types of SHM, Eqn of Diffn SHM |
| Week 5 | 27-09-2021 to 01-10-2021 | Compound pendulum, Torsional Pendulum, Transverse Vibration Time Period |
| Week 6 | 04-10-2021 to 09-10-2021 | Electrical Oscillations, Energy, Analogy between mechanical and electrical Oscillator |
| Week 7 | 11-10-2021 to 16-10-2021 | Composition of two perp SHM of same period, ratio 1:2 |
| Week 8 | 18-10-2021 to 19-10-2021 | Damped Mechanical oscillations equation and its soln, Types of damping |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 9 | 01-11-2021 to 06-11-2021 | Logarithmic Decrement, Relaxation Time, Q factor, Damped Electrical osc, Applications |
| Week 10 | 08-11-2021 to 13-11-2021 | Diffn equation of forced osc, Behavior with frequency, Velocity of forced mech osc, Variation with phase and frequency |
| Week 11 | 15-11-2021 to 20-11-2021 | Acceleration and its variation, electrical osc, and its variations |
| Week 12 | 22-11-2021 to 27-11-2021 | Power supplied and its variations, band width, Q factor |
| Week 13 | 29-11-2021 to 04-12-2021 | Relation between Q factor and band width, Amplification factor, ohm law |
| Week 14 | 06-12-2021 to 11-12-2021 | Coupled oscillator and its equations, Normal coordinates, modes, in phase and out phase, shape, Exchange of energy, and its equations, Characteristics |
| Week 15 | 13-12-2021 to 16-12-2021 | Normal coordinates, modes, in phase and out phase, shape determination of normal modes, Inductive coupling |