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

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

**Session (2021-2022)**

**Class: B.Sc 1st semester**   **Name of the Teacher:Suresh Kumar**

**Subject: Physics Period :3rd**

**Paper :A Room No : 129**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 1-09-2021 to 04-09-2019 | Admissions ( 1st September to 10th September 2021) |
| Week 2 | 06-09-2021 to 11-09-2021 | Admissions |
| Week 3 | 13-09-2021 to 18-09-2021 | Cartesian and spherical polar coordinate systems, two and three-dimensional coordinate systems, Area, volume, displacement, velocity |
| Week 4 | 20-09-2021 to 25-09-2021 | Acceleration in these systems ,Solid angle, centre of mass |
| Week 5 | 27-09-2021 to 01-10-2021 | Linear and angular momentum |
| Week 6 | 04-10-2021 to 09-10-2021 | Torque, potential and kinetic energy of a system of particles |
| Week 7 | 11-10-2021 to 16-10-2021 | Relationship of conservation laws of linear momentum |
| Week 8 | 18-10-2021 to 19-10-2021 | Angular momentum and energy |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 9 | 01-11-2021 to 06-11-2021 | Symmetries of space and time |
| Week 10 | 08-11-2021 to 13-11-2021 | Various forces in nature and relative strengths |
| Week 11 | 15-11-2021 to 20-11-2021 | Spatial dependence, Motion under force obeying inverse square law ,Equivalent one body problem |
| Week 12 | 22-11-2021 to 27-11-2021 | Motion under central forces, equation of motion under central force |
| Week 13 | 29-11-2021 to 04-12-2021 | Equation of orbit and turning points, Kepler’s Laws |
| Week 14 | 06-12-2021 to 11-12-2021 | Elastic collision in Lab. and C.M. systems, relationships of velocities, angles & kinetic energies in these two systems |
| Week 15 | 13-12-2021 to 16-12-2021 | Cross section of elastic scattering, Rutherford Scattering |