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

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

**Session (2021-2022)**

**Class: BSc Biotech Hons. first sem**  **Name of the Teacher: Dr. Harjeet Kaur**

**Subject: Physics Period : Fourth**

**Paper : Room No : Online**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 1-09-2021 to 04-09-2021 | Admissions |
| Week 2 | 06-09-2021 to 11-09-2021 | Admissions |
| Week 3 | 13-09-2021 to 18-09-2021 | Laws of radioactivity, decay law, decay constant, half-life, activity |
| Week 4 | 20-09-2021 to 25-09-2021 | Average life, Units, Uses of radio isotopes, Radio carbon dating |
| Week 5 | 27-09-2021 to 01-10-2021 | Science, Physics and Life Sciences, Overlap, Units of measurements |
| Week 6 | 04-10-2021 to 09-10-2021 | Conditions for observing interference fringes, phase and path difference, Young’s double Slit experiment. |
| Week 7 | 11-10-2021 to 16-10-2021 | Lloyd’s mirror and Fresnel’s biprism, Phase change on reflection |
| Week 8 | 18-10-2021 to 19-10-2021 | Diffraction: Fresnel theory of Diffraction. Distinction between Fresnel and Fraunhofer diffraction |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 9 | 01-11-2021 to 06-11-2021 | Fraunhofer diffraction due to single slit, Rayleigh Criteria |
| Week 10 | 08-11-2021 to 13-11-2021 | resolving power of microscope and telescope |
| Week 11 | 15-11-2021 to 20-11-2021 | Compound Microscope |
| Week 12 | 22-11-2021 to 27-11-2021 | Fluorescent Microscope |
| Week 13 | 29-11-2021 to 04-12-2021 | Polarization: Concept and analytical treatment of unpolarized, plane polarized  and elliptically polarized light. |
| Week 14 | 06-12-2021 to 11-12-2021 | Malus Law, Brewsters Law |
| Week 15 | 13-12-2021 to 16-12-2021 | Problems |