|  |  |
| --- | --- |
| 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**  **Interference by Division of Amplitude**: Colour of thin, films, wedge shaped film, Newton’s rings.  Interferometers: Michelson’s interferometer and its application to (I) Standardization of a meter (II) determination of wave length.  Fresnel’s Diffraction: Fresnel’s half period zones, zone plate, diffraction at a straight edge, rectangular slit and circular aperture. . **(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 | **Fraunhofer diffraction** : One slit diffraction, Two slit diffraction  N-slit diffraction, Plane transmission granting spectrum, Dispersive power of a grating.  **(Assignment + Unit Test)**  Limit of resolution, Rayleigh’s criterion, resolving power of telescope and a grating.  **(Assignment + Unit Test)** |

**LESSON PLAN- B.Sc 4th 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 | **Polarization** :Polarization and Double Refraction : Polarization by reflection Polarization by scattering, Malus law  Phenomenon of double refraction, Huygen’s wave theory of double refraction (Normal and oblique incidence  Analysis of Polarized light : Nicol prism  Quarter wave plate and half wave plate,  production and detection of (i) Plane polarized light (ii) Circularly polarized light and (iii)Elliptically polarized light  Optical activity, Fresnel’s theory of rotation, Specific rotation, Polarimeters (half shade and Biquartz).    (**Assignment + Unit Test**) |
| 15-05-2023 to 16-05-2023  17-05-2023 onwards | Revision  MDU examination |