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CEL 1202 OPTICS II - PHYSICAL OPTICS

MODULE 1

Superposition of two sinusoidal waves, path difference and phase difference, Analytical and graphical methods. Coherent sources, spatial and temporal coherence, complex representation of light waves, Interference of two monochromatic waves, optical beats.

Theory of interference and bandwidth, Interference by division of wavefront, Young's double slit experiment, Fresnel's bi-prism, Lloyd's mirrors.

MODULE 2

Interference by division of amplitude, two beam interference, parallel sided plates, colour of thin films, wedge shaped film, Newton's rings - reflected and transmitted systems, Radius of rings and expression for wavelength, Michelson interferometer, Determination of wavelength separation and standardization of meter. Types of fringes- localized and nonlocalised fringes in white light

MODULE 3

Diffraction-Fresnel's assumptions, Rectilinear propagation of light and Fresnel's theory, Fresnel's zones, theory of zone plate and its comparison with convex lens, Fresnel and Fraunhofer diffractions- Fresnel's diffraction at straight edge, Cornu's spiral -application to diffraction phenomena. Fraunhofer diffraction at single slit, Double slit and multiple slits, missing orders in double slit diffraction pattern, theory of plain transmission grating- oblique and normal incidence, absence spectra, determination of wavelength of light using grating, dispersion and resolving power, Blazed gratings.

MODULE 4

Polarization, Experimental observation, Polarization by reflection and refraction, Brewster angle, Pile of plates, Biot's polariscope., Malus laws, Double refraction - Optic axis, Uniaxial and biaxial crystals, Geometry of calcite crystals, Nicol prism, Nicol as analyzer and polarizer. Huygen's explanation of double refraction, Quarter wave and Half wave plates, Production and detection of plane, elliptical and circular polarization of light.

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3. Text book of Optics - N Subrahmanian and Brijlal, S Chand and Company, 22nd Edition, (1997) (Text)
4. Introduction to Classical and Modern Optics -Jurgen R Meyer Arendt, Prentice Hall India 2nd Ed(1988)
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6. Geometrical and Physical Optics- R S Longhurst, Orient Longman, 3rd Edition,(1999).
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