

Name - MEENA

Department - PHYSICS

Class - B.Sc (N-M) IInd year (IIIrd sem.) Subject - PHY 302: OPTICS.

- July:
- 1.) Study of transverse vibration of strings.
 - 2.) Speed of longitudinal waves in a fluid.
 - 3.) Superposition of waves.

- AUGUST:
- 1.) Numericals problems.
 - 2.) Introduction of fourier's Series
 - 3.) Limitations and importance of fourier theorem.
 - 4.) Discuss even, odd function, sine & cosine series.
 - 5.) Complex form of fourier series.
 - 6.) Describe half & full wave rectifiers

- September:
- 1.) Integration of fourier series & Parseval's identity.
 - 2.) Discuss numericals problems.
 - 3.) Test of fourier series.
 - 4.) Fouries transform & properties or theorems of fourier transforms.
 - 5.) Applications of fourier transform.

- October:
- 1.) Discuss numerical problems of fourier transform
 - 2.) Test of fourier transform.
 - 3.) Matrix method in paraxial optics.
 - 4.) Effects of translation & Refraction.
 - 5.) Derivation of lens formulae & system of thin lenses.
 - 6.) Chromatic, spherical coma, astigmatism & their remedies.

- November:
- 1.) Interference by division of wavefront
 - 2.) Fresnel's Biprism & its applications
 - 3.) Determination of wavelength of sodium light
 - 4.) Thickness of a mica sheet, Lloyd's mirror.
 - 5.) Assignment.
 - 6.) Phase change on reflection.

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