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Topics for PPT Presentation for TEQIP Institute under TEQIP-III

Department of Physics

1. Michelson – Morley Experiment and speed of light w.r. to frame of reference.
2. Interference through division of amplitude due to parallel film and Newton's ring experiment with its application.
3. Electromagnetic theory and propagation of electromagnetic waves and E.M. energy density in dielectric medium.
4. Types of coherence with examples and application in Laser.
5. Communication through optical fibre.
6. Band theory of solids (Kronig-Penny model) and classification of solids as conductor insulator and semi conductor.
7. Black Body Radiation and its implication to justify inadequacy of classical mechanics.
8. Comparison of classical harmonic oscillator with quantum harmonic oscillator.
9. Polarisation in Dielectric medium in DC and AC fields.
10. Role of quantum mechanics to explain Paramagnetic properties which remained unanswered by classical theory.