

Physics

List of Topics in Physics for Presentation by Asst Professor Candidates in TEQIP (Asst Prof) Interview

1. Special theory of relativity – Lorentz transformations
2. Maxwell's equations in free space
3. Tunnelling through a barrier
4. Heisenberg's uncertainty principle
5. Blackbody radiation and Plank's distribution law
6. Band theory of solids
7. Zeeman effects
8. Lasers: spontaneous and stimulated emission
9. Superconductivity
10. Standard model of elementary particles