

DATED: 26.09.2017

SYLLABUS – ENGG PHYSICS FOR 2ND HOUSE TEST

BRANCHES: CSE AND IT

Following three chapters will there in 2nd House Test of Engg Physics.

1. **Basics of Electromagnetic Theory:** Physical significance of Gradient, Divergence & Curl, Relationship between Electric Field & Potential, Maxwell's Equations, Maxwell's Wave Equation for EM waves in free space, velocity of EM waves, Intensity of EM waves, Poynting vector.
2. **Special Theory of Relativity:** Einstein's postulates, Lorentz Transformation Equations, Length Contraction, Time Dilation, Addition of Velocity, Variation of mass with velocity, Mass-Energy & Energy-Momentum relations.
3. **Crystallography:** Lattice, Basis, Unit Cell, Bravais Lattice, Crystal Systems, Lattice Planes, Miller Indices, Spacing between lattice planes, X ray diffraction, Bragg's Law & its applications in crystallography, Bragg's spectrometer.