

Electromagnetic Fields and Waves

II year II sem

Course Outcomes: Upon completing this course, the student will be able to

1. Get the knowledge of Basic Laws, Concepts and proofs related to Electrostatic Fields and Magnetostatic Fields.
2. Understand the relation between the static and time-varying fields, establish the corresponding sets of Maxwell's Equations and Boundary Conditions.
3. Analyze the Wave Equations for good conductors, good dielectrics and evaluate the UPW Characteristics for several practical media of interest.
4. To analyze completely the rectangular waveguides, their mode characteristics, and design waveguides for solving practical problems.