ECSE 354. ELECTROMAGNETIC WAVE PROPAGATION.

Credits: 4

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Terms offered: Fall 2025, Winter 2026

View offerings for Fall 2025 or Winter 2026 in Visual Schedule Builder.

Description

Transient and steady state wave propagation in transmission lines; telephone and radio frequency lines; Smith's chart and impedance matching; Maxwell's equations, Helmholtz's equations, Poynting's theorem; plane waves, polarization, Snell's law, critical and Brewster's angle; rectangular waveguides, optical fibres, dispersion; radiation and antennas; S-parameters; lab work involving the Smith chart, communication transmission lines, reflection and refraction, and optical waveguides.

· (3-4-5)

- Prerequisite(s): ECSE 251
- · (3-4-5)

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