

# El E 441: Electromagnetic Theory I

## ELECTRICAL ENGINEERING

Maxwell's equations, the wave equation and its solution, plane waves in free space and conducting media, reflection and transmission at interfaces, transmission line theory, introduction to waveguides and cavity resonators.

3 Credits

### Prerequisites

- [El E 341: Theory of Fields](#)
- Pre-Requisite: 24 Earned Hours

### Instruction Type(s)

- Lecture: Lecture for El E 441

### Subject Areas

- [Electrical and Electronics Engineering](#)

### Related Areas

- [Electrical, Electronics and Communications Engineering, Other](#)
- [Laser and Optical Engineering](#)
- [Telecommunications Engineering](#)

