

## **EI 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**

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

#### **Instruction Type(s)**

- Lecture: Lecture for EI E 441

#### **Subject Areas**

- [Electrical and Electronics Engineering](#)

#### **Related Areas**

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

