Photonics is a discipline concerning the control of light and its technological applications. Light is electromagnetic radiation of wavelengths in the range from 300 nm to 30 nm, generally divided into infrared, visible, and ultraviolet regions (however, the main applications of photonic devices are in the narrower range of visible and near infrared wavelengths). The wave nature of light is very important in the function of photonic devices (specifically, for transmission and modulation of light). This course focuses on the study of the elementary properties of electromagnetic waves.

### Learning objectives of the subject

Photonics is a discipline concerning the control of light and its technological applications. Light is electromagnetic radiation of wavelengths in the range from 300 mm to 30 nm, generally divided into infrared, visible, and ultraviolet regions (however, the main applications of photonic devices are in the narrower range of visible and near infrared wavelengths). The wave nature of light is very important in the function of photonic devices (specifically, for transmission and modulation of light). This course focuses on the study of the elementary properties of electromagnetic waves.
32105 - ELEWA - Electromagnetic Waves

Bibliography

Basic:

Complementary: