**Subject**: **ELECTRICAL MATERIALS** code: 213

**Department**: Electric Power Engineering

**Majors**: Electronics; Electrical engineering and renewable energy sources; Electrical power engineering; Electrical power supply and equipment; Ship electrical equipment; Information and communication technologies; Automation, robotics and computer systems for control.

**Annotation:**

The subject "Electrical Materials" examines the behavior of electrical engineering materials in electric and magnetic fields, taking into account the influence of the structure, regime specifics and external factors.

The basic properties of the main groups electrical materials (dielectrics, conductors, semiconductor and magnetic materials) and their behavior in extreme conditions are studied. Different types of materials and their specifics are also discussed.

The subject is supported by the subjects “Physics” and “Higher mathematics” and provides all special subjects.

The methods for education include lectures, practical lessons, laboratory exercises and test.