

## **03.03.01 Applied Mathematics and Physics**

### **Theoretical and Experimental Solid State Physics**

#### **Program objective**

To train specialists for producing and promoting environmentally friendly energy, energy-saving technologies and new materials based on the development and convergence of laser, plasma, beam, synchrotron and X-ray technologies by integrating educational, research and innovative engineering activities.

#### **Curriculum features**

- condensed matter physics
- theoretical solid state physics
- numerical methods in quantum physics
- introduction to nanostructure physics
- physical foundations of superconductivity

Applied research competencies, developed experimental base and close collaboration with major national research centres allow students to conduct research and present them at international conferences.