

Review of the Educational Program
“6B07109 Engineering Physics and Materials Science”

The educational program “6B07109 Engineering Physics and Materials Science” aims to train specialists capable of working at the intersection of physics, materials science, and modern engineering technologies. The program focuses on developing a solid theoretical background together with practical skills required for the analysis, design, and application of advanced materials in various technological fields.

The curriculum includes fundamental disciplines such as general and solid-state physics, materials science, thermodynamics, and semiconductor physics, as well as specialized courses related to modern functional materials and nanostructures. The combination of theoretical courses with laboratory experiments and research projects helps students gain practical experience in materials characterization and analysis.

An important feature of the program is its emphasis on research and innovation. Students are encouraged to participate in scientific projects, which allows them to develop critical thinking, problem-solving abilities, and independent research skills. The program also reflects current trends in engineering education by integrating modern technologies and interdisciplinary approaches. In general, the program provides comprehensive training for future engineers and researchers in the field of materials science and engineering physics. Graduates are well prepared for professional careers in research institutions, industrial enterprises, and high-technology sectors.

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