

Review of the Syllabus

“PHY6404 – Fundamentals of Materials Science”

The syllabus of the course *PHY6404 – Fundamentals of Materials Science* provides a clear and well-structured overview of the fundamental principles of materials science for students of the educational program **6B07109 “Engineering Physics and Materials Science.”** The course focuses on understanding the relationships between the structure, properties, and processing of materials.

The syllabus includes a logical sequence of topics covering atomic structure, crystal defects, diffusion, mechanical properties, phase transformations, and different classes of materials such as metals, ceramics, polymers, and composites. Practical and laboratory activities introduce students to modern materials characterization techniques, which helps connect theoretical knowledge with practical applications.

In general, the syllabus reflects modern educational requirements and corresponds to the current trends in materials science education. The integration of theoretical knowledge with laboratory practice and research methods contributes to the development of professional competencies necessary for future engineers and researchers in the field of materials science.

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