

The exam is an oral interview in English. The questions will be taken from the entrance examination syllabus (6 topics from 4 areas of physics).

An example of the interview

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| A. Mechanics | Mechanical oscillations. Harmonic motion. Damping factor, eigenfrequency, resonance. Quality factor. The mathematical pendulum, spring pendulum. Amplitude-frequency and phase-frequency characteristics |
| B. Thermodynamics and Molecular Physics | The Maxwell distribution. The most probable, average, and RMS velocities of gas molecules. |
| C. Electrodynamics | Magnetostatics. Biot-Savart Law. Electromagnetic induction. Magnetics. Magnetization. Magnetic permittivity and susceptibility. |
| D. Optics | Polarization of light. Anisotropic media. Polarization ellipse. Polarizers and waveplates. |