Thematic Areas for the Oral Entrance Examination – Bachelor's Degree Programmes

B0719A270002 Nanotechnology

1. Atomic structure and chemical bonding.
2. Basic chemical and physical properties of solids.
3. Basic understanding of the terms "nano", "nanoscale", and "nanotechnology".
4. Basic classification of nanomaterials by shape.
5. Examples of nanomaterials in everyday life.

B0719A270003 Materials Engineering

1. Basic understanding of materials engineering and its importance.
2. Periodic table of elements and basic properties of metals.
3. Classification of metals (ferrous and non-ferrous metals).
4. Basic physical and mechanical properties of materials.
5. Common metallic materials, their applications and recycling.