

<i>Name of the subject:</i> <b>Engineering Materials</b>	<i>NEPTUN-code:</i> <i>BAXMNE2BNE</i>	Credits: 4 ECTS: 6
<i>Subject leader:</i> <i>Dr. Péter Pinke</i>	<i>Title: associate professor</i>	
<i>Course description:</i>		
<p>Fundamentals of materials testing, mechanical, physical metallurgical and non-destructive testing methods. Atomic and higher structures of metals, polymers, ceramics and composites. Solidification and crystalline structure of metals. Interpretation of the equilibrium diagram and its information content. Iron-carbon alloys. The process of cold forming and recrystallisation and the consequences in practice. Structure, types and processing of polymers. Structure and properties of ceramics and composite materials.</p>		