

<i>Name of the subject:</i> Fundamentals of Materials Technology II	<i>NEPTUN-code:</i> BAGAN2ANND	Credits: 3 ECTS: 4
<i>Subject leader:</i> Dr. Péter Pinke	<i>Title:</i> ass.prof.	
<i>Course description:</i>		
<p>The students will acquire the knowledge of fundamentals of heat treating technologies, equilibrium and non-equilibrium transformation, structures of alloys, properties, process parameters and technologies of quenching, tempering, annealing and normalising. Other major materials to study include thermochemical and thermomechanical heat treatment processes and their basic parameters, case hardening, carburizing, nitriding of steels, surface heat treatment technologies, evaluation and optimising of technologies. Heat treating furnaces, cooling media, atmospheres, and testing of heat treated parts are studied as well.</p>		