

<i>Name of the subject:</i> Introduction to the Mechatronics	<i>NEPTUN-code:</i> <i>BMXMEE1BNE</i>	Credits: 4 ECTS: 6
<i>Subject leader:</i> <i>Dr. István Nagy</i>	<i>Title:</i> ass. prof.	
<i>Course description:</i>		
<p>The subject and concept of mechatronics. Characteristics and the components of mechatronics systems. Mechanical parts of the systems: transmission of the power, energy and moving mechanisms. Electrical parts of the system: sensors, transducers, electric circuits. Metrology: measuring systems, principle of measuring, electronic and non-electronic measuring. Signal processing, distribution of the signals. Information technology: the phases of the information processing, typically used in mechatronics. Control strategies: software– based control strategies.</p>		