

<i>Name of the subject:</i> System engineering (E-Learning)	<i>NEPTUN-code:</i> BMERTE3BNE	Credits: 4 ECTS: 6
<i>Subject leader:</i> Dr. László Pokorádi	<i>Title:</i> prof.	
<i>Course description:</i>		
<p>Basic principles of systems engineering, methods, models of systems, classification of systems. Elements of concentrated parameter systems. System elements interconnecting elements of differing types. Equations describing the behaviour of general systems, transformation to other physical systems. Methods of solution of sitemaps equations based on analogy, duality, and dual analogy. Synthesis of precision mechanics systems, elements and element groups forming the basis of synthesis. Methods of signal transformation. Students should have basic knowledge on main fields of system engineering. They are required to understand concepts, methods and tools.</p>		