

<b>Name of the subject:</b> <b>Automatics II.</b>	<b>NEPTUN code:</b> KMXAZ2ABNE	<b>Weekly hours:</b> 3 0 lec+0 gs+ 3 lab	<b>Credit:</b> 4 <b>Req:</b> Assignment
<b>Subject leader:</b> <b>Dr. József Neszveda</b>	<b>docent</b>	<b>Prerequisites:</b> KMXAZ1ABNE Automatics I.	
<b>Description of the subject:</b>			
<p>Examination of holding and tracking quality in SISO systems. Controller design of cascade and feed-forward control systems. Examination of the effects of different non-linearity of SISO control systems. Design the two and the three level controllers and their block charts. . Examination the effect of 'Z' transformation. Stabilization and quality of sampled control systems under time and 'Z' domain.</p> <p>Examination of on-off sensors, different electrical transducers, digital controllers and their applications. Basics of pneumatics. Examination of pneumatic effectors.</p>			
<b>Literature:</b>			
<p>Katsuhiko Ogata Modern Control Engineering ISBN 10: 0-13-615673-8 Pearson</p> <p>M. N. Bandyopadhyay, "Control Engineering: Theory And Practice" WEB</p> <p>M. Sam Fadali: Digital control engineering: analysis and design ISBN 13: 978-0-12-374498-2 Google</p> <p>Remarks:</p>			