

<b>Name of the subject:</b> <b>Automatic manufacturing systems II.</b>	<b>NEPTUN code:</b> KMAGY21AND	<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. András Boráros-Bakucz</b>		<b>Prerequisites:</b> KMAGY11AND #	
<b>Description of the subject:</b>			
Laboratory exercise. Physical devices: <ul style="list-style-type: none"> <li>- pneumatic manipulator,</li> <li>- traffic light,</li> <li>- production machine controlled by embedded controller,</li> <li>- PLC and PC,</li> <li>- FPGA base board,</li> <li>- ARM base board.</li> <li>- Usage of FPGA (simple logical application, sequential application, soft processors),</li> <li>- Usage of 32 bit microcontrollers.</li> </ul>			
<b>Literature:</b>			
Mikell P. Groover "Automation, production systems, and computer-integrated manufacturing" Prentice Hall 2007 ISBN 0-13-239321-2 J Norberto Pires "Industrial Robots Programming" Springer 2007 ISBN 0-387-23325-2 Steve Krar, Arthur Gill: "CNC Technology and Programming" Industrial Press 1990 ISBN: 0070233330 <a href="http://www.book123.net/introduction-to-fpga_230244.html">http://www.book123.net/introduction-to-fpga_230244.html</a> <a href="http://www.arm.com/files/pdf/IntroToCortex-M3.pdf">www.arm.com/files/pdf/IntroToCortex-M3.pdf</a> en.wikipedia.org/wiki/ARM_architecture  Remarks:			