

## Project work – Experimental Analysis on Computed Torque Control

<b>Project Title:</b> Experimental Analysis on Computed Torque Control		<b>Institution ID:</b> <b>MEI-112</b>
<b>Project Aim:</b> Implementing a CTC algorithm for a DC motor. The students must create a mathematic model of the control system (DC motor with a spring as a load), then the control algorithm can be developed for an ARDUINO (or similar) embedded system. Finally, the control solution should be tested through experiments.		
<b>Supervisor:</b>	Varga Bence	
<b>Contact:</b>	varga.bence@bgk.uni-obuda.hu	
<b>Group: (min./max.):</b>	3-5 person <i>without the minimal requirement (3person) the project is not starting</i>	
<b>Preliminary Requirements:</b>	<i>Completing Subjects: Programming I. – II., Industrial Robot Kinematics and Dynamics.</i>	
<b>Scheduling:</b>	1.-2. week	Get in touch with the supervisor, forming the project group.
	3.-4. week.	Review on Computed Torque Control and closed loop control of DC motors.
	5.-6. week	Creating a mathematic model on the controlled system.
	7.-9. week	Implementing the control algorithm.
	10.-13. week.	Experimental analysis.
	14.-15. week	Documenting the results.
<b>Note:</b>		
<ul style="list-style-type: none"> <li>• <i>Application in the NEPTUN system.</i></li> </ul>		