<i>Title of the course:</i> Open and Closed loop Control	<i>NEPTUN-code:</i> RKXSV1EBNE	Weeklyteachinghours:l+cw+lb1+0+2	Credit: 3 Exam type: tm
Course leader:	Position:	Required preliminary knowledge :	
Lóránt Szabó, Dr.	senior lecturer	NMXAN1EBNE	
Curriculum:			

Learning the basic concept of the open and closed loop control. The open loop control using only On/Off signals. Overview PLC systems. Open loop control with pneumatic final elements.

Review the theoretical background of closed loop control, structure of a control system, signals and basic control blocs. Time response, frequency response, steady state characteristics.

Professional competencies:

In possession of state-of-the-art IT skills, being able to use professional databases and certain design, modelling, and simulation software depending on their specialty.

Efforts to improve knowledge by on-going self-education and continuously update their knowledge of the world.

Responsible proclamation and representation of the value system of the engineering profession; openness to professionally well-founded critical remarks.

Sharing experiences with colleagues, thus promoting their development.

Literature:

- Javad, Mohammadpour: Control of Linear Parameter Varying systems. Chapter: 1, 2, 3; ISBN: 978-1-4674-1832
- 2. Keviczky, László: Control Engineering, Chapter: 1, 2, 4, 6, 8; ISBN: 978-963-9819-74-0

3. E-learning materials in Moodle (lectures)

Comment: