Name of the subject: **System and Control Theory**	*NEPTUN-code:* BGRRI1ENNM	Credits: 3 ECTS: 5
Subject leader: dr. T. Szakács	*Title:* senior lect.	
Course description:		
The goal of the subject is the overview of the analysis and design methods of electromechanical engineering systems. Having determined the modeling paradigms and the state-space representations the subject is dealing with the system analytical questions thus the controllability, observeability, and stability. The subject investigates in details the qualitative properties and the uncertainties. Among the linear control design methods it deals with the classical pole replacement and the linear quadratic control method. The above is extended with observer design and introduction to the separating theory.		