<i>Name:</i> Service Robots. Medical Robotics		NEPTUN-code: NBXCI1SMNE	<i>Number of periods/week:</i> full-time: 2 lec + 0 sem + 0 lab
Credit: 3 Requirement: exam	<i>Prerequisite:</i> NBXIK1SMNE Kinematics and Dynamics of Industrial Robots		
<i>Responsible:</i> Tamás HAIDEGGER, Ph.D.	<i>Position:</i> associate professor	<i>Faculty and Institute name:</i> John von Neumann Faculty of Informatics Institute of Biomatics	
Way of assessment: – mid-term exam – written and oral e	exam		
Competences			
of the Y generation will I methods and application ones, therefore special att Topics of the course: Hun requirements, control the and home care. Automati	have a robotic surg challeneges of se- cention should be p man-centerd robot ory and safety issi- ng the basic tasks	gery during their lifeting rvice robots are composed to these. ics: introduction to serues. Standardization of around a human paties	v household by 2020. Moreover, most ne. The structure, kinematics, contro- pletely different that of the industria vice applications. Special application f medical robots, their use in hospita nt. Design and impementation of safe
	uman, the role of	navigation. Employm	s. Safe manipulation techniques in the ent of accurate patient data, medical nd validation of systems.
Literature			
T. Haidegger: "The con Hetilap, vol. 151, no. 41, Assorted chapters of: Han Springer 2016	pp. 1690–1696, 20	010 (in Hungarian)	esses, failures, challenges ", Orvos Bruno, Khatib, Oussama)

Springer, 2016 Assorted chapters of: Handbook of Robotics (Editors: Siciliano, Bruno, Khatib, Oussama) Springer, 2016