AGU Course Record Catalogue



Code	ECE 513
Name	Introduction to Robotics
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Fall
Туре	Elective
Prerequisites	none
Content	The purpose of this course is to provide the students with the fundamental tools
	of robotic system design, analysis, modeling, and control. The course content
	includes robot classifications, Rigid motions, Homogeneous transformations,
	Robot forward kinematics, Robot inverse kinematics, Differential kinematics
	and Jacobians, Motion planning and trajectory generation, Robot dynamics,
	Mobile robots, Independent joint control, and Robot sensors and actuators. The
	course provides self-learning and creative thinking abilities.