

Robotics and Navigation in Medicine: Schedule
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Schedule – Summer Term 2019

Robotics and Navigation in Medicine

Date	Lecture	Tutorial	Project Deadline
04.04.	Introduction	–	–
09.04.	–	–	Registration form
11.04.	Robotics: Basic principles	ROS-tutorial and introduction to project related tools (virtual machine, simulator)	–
18.04.	Robotics: Kinematics	Transformations	–
25.04.	Robotics: Paths and trajectories	Direct kinematics	–
28.04.	–	–	Project plan
02.05.	Navigation: Calibration	Inverse kinematics	–
09.05.	Navigation: Localization	Incremental inverse kinematics, parallel kinematics and basics of path planning	–
16.05.	Navigation: Image guidance	Camera calibration and localization	–
23.05.	Backup*	Path planning and trajectory planning	–
06.06.	–	Backup*	–
07.06.	–	–	Kinematics
21.06.	–	–	Calibrations
28.06.	–	–	Head Tracking
08.-11.07.	–	–	Project presentation
15.09.	–	–	Project report

* Reserved time slot to be used in case one of the earlier lectures/tutorial sessions needs to be canceled.