

## Schedule – Summer Term 2018

### Robotics and Navigation in Medicine

Date	Lecture	Tutorial	Deadlines
05.04.	Introduction	–	–
10.04.	–	–	Registration form
12.04.	Robotics: Basic principles	ROS-tutorial and introduction to project related tools (virtual machine, simulator)	–
19.04.	Robotics: Kinematics	Transformations	–
26.04.	Robotics: Paths and trajectories	Direct kinematics	–
02.05.	–	–	Project plan
03.05.	Navigation: Calibration	Inverse kinematics	–
17.05.	Navigation: Localization	Incremental inverse kinematics, parallel kinematics and basics of path planning	–
31.05.	Navigation: Image guidance	Path planning and trajectory planning	–
07.06.	–	Camera calibration and localization	–
14.06.	–	Backup*	–
09.-13.07.	–	–	Project presentation
14.09.	–	–	Project report

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