

Course: Robotics Working Group (2,5 CP)

General information	
Course Name	Robotics Working Group (2,5 CP) Robotics Working Group (2,5 CP)
Course code	XRAG
Lecturer(s)	M.Sc. Eilers, Hannes (hannes.eilers@haw-kiel.de) Prof. Dr. Lüsse, Jens (jens.luessem@haw-kiel.de)
Occurrence frequency	Regular
Module occurrence	In der Regel jedes Semester
Language	Englisch

Qualification outcome
<i>Areas of Competence: Knowledge and Understanding; Use, application and generation of knowledge; Communication and cooperation; Scientific self-understanding / professionalism.</i>
Students know the principal construction of robots. Students understand the principal functionality of (semi) autonomous robots. Students are able to program (semi) autonomous robots using visual, imperative, object oriented, or functional programming languages.
Students are able to program robots in such a way that they are able to interact and perform tasks in simple application scenarios.

Content information	
Content	Principal architectures of robots Actors and sensors Simulation of robots Programming of (semi) autonomous robots
Literature	Thrun, S. et al.: Probabilistic Robotics. MIT Press 2005.

Teaching format of this course	
Teaching format	SWS
Projekt	2

Examinations	
XRAG - Projektbezogene Arbeiten	Method of Examination: Projektbezogene Arbeiten Weighting: 100% wird angerechnet gem. § 11 Absatz 2 PVO: Yes Graded: Yes
Ungraded Course Assessment	No