

Study and Examination Plan

Robotics and Intelligent Systems (RIS) BSoc																									
Matriculation Fall 2022																									
Program-Specific Modules						Type	Assessment	Period	Status ¹	Sem.	CP	Jacobs Track Modules (General Education)						Type	Assessment	Period	Status ¹	Sem.	CP		
Year 1 - CHOICE											45												15		
<i>Take the mandatory CHOICE modules listed below</i>																									
CH-220 Module: Introduction to Robotics and Intelligent Systems (default minor)											m	2	7.5												10
CH-220-A	Introduction to Robotics and Intelligent Systems		Lecture	Written examination	Examination period						5												5		
CH-220-B	Intro to RIS - Lab		Lab								2.5												5		
CH-231 Module: Algorithms and Data Structures											m	2	7.5												5
CH-231-A	Algorithms and Data Structures		Lecture	Written examination	Examination period																				
											30												5		
CH-230 Module: Programming in C and C++ (default minor)											m	1	7.5												5
CH-230-A	Programming in C and C++		Lecture	Written examination	Examination period						2.5												2.5		
CH-230-B	Programming in C and C++ Tutorial		Tutorial	Practical assignments	During the semester						5												5		
CH-140 Module: Classical Physics											m	1	7.5												5
CH-140-A	Classical Physics		Lecture	Written exam	Examination period						5												2.5		
CH-140-B	Classical Mechanics Lab		Lab	Lab report	During the semester						2.5												2.5		
CH-210 Module: General Electrical Engineering I											m	1	7.5												5
CH-210-A	General Electrical Engineering I		Lecture	Written exam	Examination period						5												2.5		
CH-210-B	General Electrical Engineering Lab I		Lab	Lab report	During the semester						2.5												2.5		
CH-232 Module: Introduction to Computer Science											m	2	7.5												5
CH-232-A	Introduction to Computer Science		Lecture	Written examination	Examination period																				
Year 2 - CORE											45												15		
<i>Take all CORE modules listed below or replace mandatory elective ("me") modules with the default minor CORE modules of Computer Science.²</i>																									
Unit: Robotics (default minor)											m	3	5												10
CO-540 Module: Robotics											m	3	5												5
CO-540-A	Robotics		Lecture	Written examination	Examination period																		5		
CO-541 Module: Machine Learning											m	4	5												5
CO-541-A	Machine Learning		Lecture	Written examination	Examination period																		5		
CO-542 Module: RIS Lab											me	3-4	5												5
CO-542-A	RIS Lab 1		Lab	Lab Report	During the semester						3												2.5		
CO-542-B	RIS Lab 2		Lab	Lab Report	During the semester						4												2.5		
Unit: Automation and Control											me	4	5												5
CO-543 Module: Automation											me	4	5												5
CO-543-A	Automation		Lecture	Written examination	Examination period																		5		
CO-544 Module: Embedded Systems											me	3	5												5
CO-544-A	Embedded Systems		Lecture/Lab	Project	During the semester																		5		
CO-545 Module: Control Systems											me	3	5												5
CO-545-A	Control Systems		Lecture	Written examination	Examination period																		5		
Unit: Intelligent Systems											me	3	5												5
CO-546 Module: Computer Vision											me	3	5												5
CO-546-A	Computer Vision		Lecture/Lab	Written examination	Examination period																		5		
CO-547 Module: Artificial Intelligence											m	4	5												5
CO-547-A	Artificial Intelligence		Lecture	Written examination	Examination period																		5		
CO-548 Module: RIS project											m	4	5												5
CO-548-A	RIS project		Project/Lab	Report / Presentation	During the semester																		5		
Year 3 - CAREER											45												15		
CA-INT-900 Module: Summer Internship											m	4/5	15												10
CA-INT-900-0	Summer Internship		Internship	Report/Business Plan and Presentation	During the 5 th Semester																		5/6		
CA-RIS-800 Module: Thesis / Seminar IMS											m	6	15												10
CA-RIS-800-T	Thesis IMS		Thesis	Thesis and Presentation	15 th of May																		5		
CA-RIS-800-S	Seminar IMS		Seminar	Thesis and Presentation	During the semester						3												5		
Unit: Specialization RIS											m	5/6	15												5
<i>Take a total of 15 CP of specialization modules</i>																									
CA-S-RIS-801	Marine Robotics		Lecture/Lab	Oral examination	Examination period						6												5		
CS-S-RIS-802	Human-Computer Interaction		Lecture	Written examination	Examination period						5												5		
CS-S-RIS-803	Optimisation		Lecture	Written examination	Examination period						6												5		
CA-S-xxx	Specialization elective (from CS, ECE, Math, IEM, DE study programs)		Various	Various	Various						5/6												5		
Total CP																									180
¹ Status (m = mandatory, me = mandatory elective)																									
² For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catalogue and /or the study program handbooks.																									
³ For details please see the program handbook																									