

Intelligent Mobile Systems (IMS) BSc.																																																																					
Matriculation Fall 2019																																																																					
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																																																	
CH-220-A										Introduction to Robotics and Intelligent Systems										Lecture										Written examination										Examination period										5																			
CH-220-B										Intro to RIS - lab										Lab																														2.5																			
CH-231										Module: Algorithms and Data Structures										m 2 7.5																																																	
CH-231-A										Algorithms and Data Structures										Lecture										Written examination										Examination period										7.5																			
CH-230										Module: Programming in C and C++ (default minor)										m 1 7.5																																																	
CH-230-A										Programming in C and C++										Lecture										Written examination										Examination period										2.5																			
CH-230-B										Programming in C and C++ Tutorial										Tutorial																														5																			
										Unit: CHOICE (own selection)										1/2 22.5																																																	
<i>Take three further CHOICE modules from those offered for all other study programs.²</i>																																																																					
Year 2 - CORE										45										15																																																	
<i>Take all CORE modules listed below or replace mandatory elective ("me") modules with suitable CORE modules from other study program</i>																																																																					
Unit: Robotics (default minor)										15										Unit: Methods / Skills										10																																							
CO-540										Module: Robotics										m 3 5																																																	
CO-540-A										Robotics										Lecture										Written examination										Examination period										5																			
CO-541										Module: Machine Learning										m 4 5																																																	
CO-541-A										Machine Learning										Lecture										Written examination										Examination period										5																			
CO-542										Module: RIS Lab										me 3-4 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										15										Unit: Language										5																																							
CO-543										Module: Automation										me 4 5																																																	
CO-543-A										Automation										Lecture										Written examination										Examination period										5																			
CO-544										Module: Embedded Systems										me 3 5																																																	
CO-544-A										Embedded Systems										Lecture/Lab										Project										During the semester										5																			
CO-545										Module: Control Systems										me 3 5																																																	
CO-545-A										Control Systems										Lecture										Written examination										Examination period										5																			
Unit: Intelligent Systems										15										Unit: Probability and Random Processes										m 3 5																																							
CO-546										Module: Computer Vision										me 3 5																																																	
CO-546-A										Computer Vision										Lecture/Lab										Written examination										Examination period										5																			
CO-547										Module: Artificial Intelligence										m 4 5																																																	
CO-547-A										Artificial Intelligence										Lecture										Written examination										Examination period										5																			
CO-548										Module: RIS project										m 4 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																																																	
CA-INT-900-0										Summer Internship										Internship										Report/Business Plan										During the 5 th Semester										15																			
CA-RIS-800										Module: Thesis / Seminar IMS										m 6 15																																																	
CA-RIS-800-T										Thesis										Thesis										Thesis and Presentation										15 th of May										12																			
CA-RIS-800-S										Seminar										Seminar																				During the semester										3																			
Unit: Specialization										m 5/6 15										Unit: Big Questions										10																																							
<i>Take a total of 15 CP of specialization modules</i>																				JTBO-BQ										Module: Big Questions										m 5/6																													
CA-S-RIS-801										Marine Robotics										Lecture/Lab										Oral examination										Examination period										me 6 5																			
CS-S-RIS-802										Human-Computer Interaction										Lecture										Written examination										Examination period										me 5 5																			
CS-S-RIS-803										Optimisation										Lecture										Written examination										Examination period										me 6 5																			
CA-S-xxx										Specialization elective (from CS, ECE, Math, IEM study programs) ³										Various										Various										Various										me 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 IMS program handbook