

Appendix 1b - Mandatory Module and Examination Plan for Campus Track

Program-Specific Modules					Jacobs Track Modules (General Education)												
Type	Status ¹	Semester	Credits		Type	Status ¹	Semester	Credits									
Year 1 - CHOICE					Year 1 - CHOICE					45	20						
<i>Take the mandatory CHOICE module listed below, this is a requirement for the IMS program.</i>																	
CH09-IntroIMS	Module: Introduction to Intelligent Mobile Systems			m			15		JT-ME-MethodsMath	Module: Methods / Mathematics		m	7,5				
CH09-320103	General Intelligent Mobile Systems I	Lecture	m	1	5	JT-ME-120103	Calculus I	Lecture	m	1	2,5	JT-ME-120104	Calculus II	Lecture	m	1	2,5
CH09-320113	Introduction to Intelligent Mobile Systems Lab I	Lab	m	1	2,5	JT-ME-120122	Foundations of Linear Algebra I	Lecture	m	2	2,5						
CH09-320104	General Intelligent Mobile Systems II	Lecture	m	2	5				JT-SK-Skills	Module: Skills		m	5				
CH09-320114	Introduction to Intelligent Mobile Systems Lab II	Lab	m	2	2,5	JT-SK-320111	Programming in C I	Lecture	m	1	2,5	JT-SK-320112	Programming in C II	Lecture	m	2	2,5
Module: CHOICE (own selection)				e	1/2		30		JT-TA-TriArea	Module: Triangle Area		m	2,5				
<i>Students take two further CHOICE modules from those offered for all other study programs. ²</i>												Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³		me	1/2	2,5	
									JT-LA-Language	Module: Language		m	5				
									Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language		Seminar	me	1/2	5			
									CA01-CarAdv	Career Advising⁴		m					
Year 2 - CORE					Year 2 - CORE					45	20						
<i>Take all three modules <u>or</u> replace one with a CORE module from a different study program. ²</i>																	
CO22-IntelSys	Module: Intelligent Systems			me	15		JT-ME-MethodsMath	Module: Methods / Mathematics		m	7,5						
CO22-320671	Computer Vision	Lecture	m	3	5	JT-ME-120201	Elements of Probability	Lecture	m	3	2,5	JT-ME-120113	Foundations of Linear Algebra II	Lecture	m	3	2,5
CO22-320311	Robotics	Lecture	m	4	5	JT-ME-120202	Numerical Methods I	Lecture	m	4	2,5						
CO22-320372	Machine Learning	Lecture	m	4	5	JT-TA-TriArea	Module: Triangle Area		m	7,5							
CO23-AutoControl	Module: Automation and Control			me	15				Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³		me	3/4	7,5				
CO23-320301	Control Systems	Lecture	m	3	5				JT-LA-Language	Module: Language		m	5				
CO26-300312	Embedded Systems Lab	Lab	m	3	5			Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language		Seminar	me	3/4	5				
CO23-320203	Automation	Lecture	m	4	5				CA01-CarAdv	Career Advising⁴		m					
CO24-PlanOpt	Module: Planning and Optimization			me	15												
CO29-080202	Operations Research	Lecture	m	3	5												
CO24-300491	Optimization	Lecture	m	4	5												
CO24-320521	Artificial Intelligence	Lecture	m	3	5												
Year 3 - CAREER					Year 3 - CAREER					45	5						
COXX	Module: Additional (4th) CORE module			m	5/6		15		JT-TA-TriArea	Module: Triangle Area		m	5				
<i>Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³</i>										me	5	5					
CA09-IMS	Module: Project/Thesis IMS			m	15					CA01-CarAdv	Career Advising⁴		m				
CA09-320303	Project IMS	m	5	5													
CA09-320304	Thesis IMS	m	6	10													
CA-S-IMS	Module: Specialization Area IMS			m	15												
Take four specialization courses (2.5 ECTS each) ²				me	5/6		15										
Total ECTS													180				

¹ Status (m = mandatory, e = elective, 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 module handbook (on our website).

³ You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

⁴ Mandatory component of the Jacobs University's Counseling and Advising Scheme.