

Study and Examination Plan

Industrial Engineering and Management (IEM) BSc																						
Matriculation Fall 2022																						
Program-Specific Modules					Type	Assessment	Period	Status ¹	Sem.	CP	Jacobs Track Modules (General Education)											
Year 1 - CHOICE										45			15									
<i>Take the mandatory CHOICE modules listed below, this is a requirement for IEM program.</i>																						
Unit: General Industrial Engineering and Logistics (Default minor)										15			Unit: Methods / Skills			10						
CH-241 Module: General Logistics										m			1			7,5						
CH-241-A	Introduction to Logistics & SCM	Lecture	Written examination	Final exam period																		
CH-241-B	Logistics Lab	Lab	and project	During the semester																		
CH-240 Module: General Industrial Engineering										m			2			7,5						
CH-240-A	Industrial Engineering	Lecture	Written examination	Examination period																		
CH-240-B	Basics of Manufacturing Technology	Lab	and project	During the semester																		
CH-300 Module: Introduction to International Business										m			1			7,5						
CH-300-A	Introduction to International Business	Lecture	Written examination	Examination period																		
CH-300-B	Introduction to International Business Seminar	Seminar	and case studies	During the semester																		
CH-301 Module: Introduction to Finance and Accounting										m			2			7,5						
CH-301-A	Introduction to Finance	Lecture	Written examination	Final exam period																		
CH-301-B	Introduction to Accounting	Lecture	and project	During the semester																		
CH-301-C	Finance and Accounting Tutorial	Tutorial																				
Unit: CHOICE (own selection)										1/2			15									
<i>Take two further CHOICE modules from those offered for all other study programs.²</i>													45			15						
Year 2 - CORE													45			15						
<i>Take all CORE modules listed below.</i>													15			10						
Unit: Advanced Industrial Engineering (Default minor)										m			3			5						
CO-582 Module: Process Modelling & Simulation										m			3			5						
CO-582-A	Process Modelling & Simulation	Lab	Project	During the semester																		
CO-581 Module: Product & Production System Design										m			3+4			5						
CO-581-A	Fundamentals of Engineering Design	Lab	Written examination	Examination period																		
CO-581-B	Advanced Production System Design	Lecture	and project	During the semester																		
CO-580 Module: Production Planning & Control										m			4			5						
CO-580-A	Production Planning & Control	Lecture	Written examination	Examination period																		
Unit: Advanced Industrial Management										m			3			5						
CO-583 Module: Operations Research										m			3			5						
CO-583-A	Operations Research	Lecture	Written examination	Examination period																		
CO-584 Module: Lean Supply Management										m			3+4			5						
CO-584-A	Advanced Lean Methods	Seminar	Written examination	Examination period																		
CO-584-B	Purchasing & Supply Management	Seminar	and term paper	During the semester																		
CO-586 Module: Data Management and Analytics in Industry 4.0										m			4			5						
CO-586-A	Data Management and Analytics in Industry 4.0	Lecture	Project	During the semester																		
Unit: Management										m			3			7,5						
CO-600 Module: Applied Project Management										m			3			7,5						
CO-600-A	Applied Project Management Lecture	Lecture																				
CO-600-B	Applied Project Management Seminar	Seminar	Presentation	During the semester																		
CO-601 Module: International Strategic Management										m			4			7,5						
CO-601-A	International Strategic Management Lecture	Lecture	Term paper	During the semester																		
CO-601-B	International Strategic Management Seminar	Seminar																				
Year 3 - CAREER										60			60									
Module Code										m			5			30						
Module: Guided Industrial Project / Mandatory Internship										m			5			30						
CA-INT-901	Guided Industrial Project / Mandatory Internship	Internship	Report and poster presentation (Business plan)	During the 5th semester																		
CA-IEM-800 Module: Thesis / Seminar IEM										m			6			15						
CA-IEM-800-T	Thesis IEM	Thesis	Thesis	15 th of May																		
CA-IEM-800-S	Seminar IEM	Seminar	Poster presentation	During the semester																		
Unit: Specialization IEM										m			6			15						
<i>Take a total of 15 CP of specialization modules</i>													60			60						
CA-S-IEM-801	Industry 4.0 and Blockchain Technologies	Lecture/Seminar	Project	During the semester																		
CA-S-IEM-802	Advanced Product Design	Lab	Project	During the semester																		
CA-S-IEM-803	Supply Chain Design	Seminar	Project	During the semester																		
CA-S-IEM-804	Integrated Decision Making in Supply Chain Management	Seminar	Project	During the semester																		
CA-S-IEM-805	Distribution & E-Commerce	Lecture	Project	During the semester																		
CA-S-IEM-806	Law of Transportation, Forwarding and Logistics	Lecture	Written examination	Examination period																		
CA-S-IEM-807	Econometrics	Lecture	Written examination	Examination period																		
CA-S-IEM-808	Machine Learning	Lecture	Written examination	Examination period																		
Total CP										180			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