

Industrial Engineering and Management (IEM) BSc

Matriculation Fall 2019

Program-Specific Modules							Jacobs Track Modules (General Education)									
Module Code	Module	Type	Assessment	Period	Status ¹	Sem.	CP	Module Code	Module	Type	Assessment	Period	Status ¹	Sem.	CP	
Year 1 - CHOICE							45	Year 1 - CHOICE							15	
<i>Take the mandatory CHOICE modules listed below, this is a requirement for IEM program.</i>								<i>Take one of the two mandatory elective methods modules listed below.</i>								
Unit: General Industrial Engineering and Logistics (Default minor)							15	Unit: Methods / Skills							10	
CH-240	Module: General Industrial Engineering				m	1	7.5	JTMS-MAT-08	Module: Applied Calculus				m	1	5	
CH-240-A	Industrial Engineering	Lecture	Written examination and project	Examination period			5	JTMS-08	Applied Calculus	Lecture	Written examination	Examination period				
CH-240-B	Basics of Manufacturing Technology	Lab		During the semester			2.5	JTMS-MAT-11	Module: Finite Mathematics				m	2	5	
CH-241	Module: General Logistics				m	2	7.5	JTMS-11	Finite Mathematics	Lecture	Written examination	Examination period				
CH-241-A	Introduction to Logistics & SCM	Lecture	Written examination and project	Final exam period			5	Unit: Language								
CH-241-B	Logistics Lab	Lab		During the semester			2.5	German is the default language. Native German speakers take modules in another offered language.								
CH-300	Module: Introduction to International Business				m	1	7.5	JTLA-xxx	Module: Language 1				m	1	2.5	
CH-300-A	Introduction to International Business Lecture	Lecture	Written examination and case studies	Examination period			5	JTLA-xxx	Language 1	Seminar	Various	Various	me			
CH-300-B	Introduction to International Business Seminar	Seminar		During the semester			2.5	JTLA-xxx	Module: Language 2				m	2	2.5	
CH-301	Module: Introduction to Finance and Accounting				m	2	7.5	JTLA-xxx	Language 2	Seminar	Various	Various	me			
CH-301-A	Introduction to Finance	Lecture					2.5	Unit: Language								
CH-301-B	Introduction to Accounting	Lecture	Written examination	Final exam period			2.5	German is the default language. Native German speakers take modules in another offered language.								
CH-301-C	Finance and Accounting Tutorial	Tutorial					2.5	JTLA-xxx	Module: Language 3				m	3	2.5	
Unit: CHOICE (own selection)							1/2	15	JTLA-xxx	Language 3	Seminar	Various	Various	me		
<i>Take two further CHOICE modules from those offered for all other study programs.²</i>									JTLA-xxx	Module: Language 4				m	4	2.5
Year 2 - CORE							45	Year 2 - CORE							15	
<i>Take all CORE modules listed below.</i>								<i>Take one of the two mandatory elective methods modules listed below.</i>								
Unit: Advanced Industrial Engineering (Default minor)							15	Unit: Methods / Skills							10	
CO-582	Module: Process Modelling & Simulation				m	3	5	JTMS-SKI-14	Module: Programming in Python				m	3	5	
CO-582-A	Process Modelling & Simulation	Lab	Project	During the semester				JTMS-14	Programming in Python	Lecture	Written examination	Examination period				
CO-581	Module: Product & Production System Design				m	3+4	5	JTMS-MET-03	Module: Applied Statistics with R				m	4	5	
CO-581-A	Fundamentals of Engineering Design	Lab	Written examination and project	Examination period			3	JTMS-03	Applied Statistics with R	Lecture/Lab	Written examination	Examination period				
CO-581-B	Advanced Production System Design	Lecture		During the semester			2.5	Unit: Language								
CO-580	Module: Production Planning & Control				m	4	5	German is the default language. Native German speakers take modules in another offered language.								
CO-580-A	Production Planning & Control	Lecture	Written examination	Examination period				JTLA-xxx	Module: Language 3				m	3	2.5	
Unit: Advanced Industrial Management							15	JTLA-xxx	Language 3	Seminar	Various	Various	me			
CO-583	Module: Operations Research				m	3	5	JTLA-xxx	Module: Language 4				m	4	2.5	
CO-583-A	Operations Research	Lecture	Written examination	Examination period				JTLA-xxx	Language 4	Seminar	Various	Various	me			
CO-584	Module: Lean Supply Management				m	3+4	5	Unit: Language								
CO-584-A	Advanced Lean Methods	Seminar	Written examination and term paper	Examination period			3	German is the default language. Native German speakers take modules in another offered language.								
CO-584-B	Purchasing & Supply Management	Seminar		During the semester			2.5	JTLA-xxx	Module: Language 3				m	3	2.5	
CO-585	Module: Production & Technology Management				m	4	5	JTLA-xxx	Language 3	Seminar	Various	Various	me			
CO-585-A	Production & Technology Management	Lecture	Project	During the semester				JTLA-xxx	Module: Language 4				m	4	2.5	
Unit: Management							15	JTLA-xxx	Language 4	Seminar	Various	Various	me			
CO-600	Module: Applied Project Management				m	3	7.5	Unit: Language								
CO-600-A	Applied Project Management Lecture	Lecture	Presentation	During the semester			5	German is the default language. Native German speakers take modules in another offered language.								
CO-600-B	Applied Project Management Seminar	Seminar					2.5	JTLA-xxx	Module: Language 3				m	3	2.5	
CO-601	Module: International Strategic Management				m	4	7.5	JTLA-xxx	Language 3	Seminar	Various	Various	me			
CO-601-A	International Strategic Management Lecture	Lecture	Term paper	During the semester			5	JTLA-xxx	Module: Language 4				m	4	2.5	
CO-601-B	International Strategic Management Seminar	Seminar					2.5	JTLA-xxx	Language 4	Seminar	Various	Various	me			
Year 3 - CAREER							60	Year 3 - CAREER							15	
Module Code	Module: Guided Industrial Project / Mandatory Internship				m	5	30	Unit: Specialization IEM								
CA-INT-901	Guided Industrial Project / Mandatory Internship	Internship	Report and poster presentation or Business plan	During the 5th semester				<i>Take a total of 15 CP of specialization modules</i>								
CA-IEM-800	Module: Thesis / Seminar IEM				m	6	15	CA-S-IEM-801	Industry 4.0 and Blockchain Technologies	Lecture/Seminar	Project	During the semester	me		5	
CA-IEM-800-T	Thesis IEM	Thesis	Thesis	15 th of May			12	CA-S-IEM-802	Advanced Product Design	Lab	Project	During the semester	me		5	
CA-IEM-800-S	Seminar IEM	Seminar	Poster presentation	During the semester			3	CA-S-IEM-803	Supply Chain Design	Seminar	Project	During the semester	me		2.5	
Unit: Specialization IEM							m	6	15	CA-S-IEM-804	Integrated Decision Making in Supply Chain Management	Seminar	Project	During the semester	me	2.5
<i>Take a total of 15 CP of specialization modules</i>										CA-S-IEM-805	Distribution & E-Commerce	Lecture	Project	During the semester	me	2.5
CA-S-IEM-801	Industry 4.0 and Blockchain Technologies	Lecture/Seminar	Project	During the semester			5	CA-S-IEM-806	Law of Transportation, Forwarding and Logistics	Lecture	Written examination	Examination period	me		2.5	
CA-S-IEM-802	Advanced Product Design	Lab	Project	During the semester				Tota CP								
CA-S-IEM-803	Supply Chain Design	Seminar	Project	During the semester				180								
CA-S-IEM-804	Integrated Decision Making in Supply Chain Management	Seminar	Project	During the semester				¹ Status (m = mandatory, me = mandatory elective)								
CA-S-IEM-805	Distribution & E-Commerce	Lecture	Project	During the semester				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								
CA-S-IEM-806	Law of Transportation, Forwarding and Logistics	Lecture	Written examination	Examination period												

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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