

Pre-approved courses at universities abroad 2018

- The purpose of this document is to provide an overview of which courses it is possible to take, when studying abroad.
- Please note that we cannot guarantee that your courses will be approved as listed. Each application for approval must be documented as described in the Study Guide, and each application will be assessed individually.
- Please also note that the courses are not always listed so that the course at the host university is equivalent to the ITU course regarding ECTS weight. Therefore you might need to apply for more courses to cover an ITU-course.
- Data Science is not listed because no pre-approvals has been given to universities abroad.

University

Courses at ITU

ECTS

Courses at university abroad

ECTS

BSc IN GLOBAL BUSINESS INFORMATICS

Royal Melbourne Institute of Technology, Australia	IT, Globalisation and Culture (2 of 3 courses)	15	International Business	7,5
			Global marketing	7,5
			Global Entrepreneurship	7,5
	Management	7,5	Business IT and Supply Chain	7,5
	Electives		Global Entrepreneurship	7,5
			Business Information Technology	7,5
Singapore Management University, Singapore	IT, Globalisation and Culture	15	Intercultural Communication	7,5
			Global Mega-treds	7,5
	Management	7,5	Supply Chain Management	7,5
	Electives		Business Negotiation and Conflict Management	7,5
			Leadership Seminiar with CEOs	7,5
Eidgenössische Technische Hochschule Zürich, Switzerland	IT-enabled Supply Chain Management	7,5	Strategic Supply Chain management	3
			Sustainable Supply Chain management	3
			Using R for Data Analytics I	1,5
			Using R for Data Analytics II	1,5
London School of Economics, UK	Elective		Strategic Management	7,5
San Diego State University, USA	Management	7,5	Management	7,5
	IT, Globalization & Culture	15	Management	7,5
			Global Systems	7,5
			Communication	7,5
		IT, Globalisation and Culture	15	Products and Services
International business Management				7,5
Business Strategy				7,5

	Boston University, USA	Electives		Introductory Microeconomic Analysis	7,5
				E-Commerce & Web Design	7,5
				Entrepreneurial Management: Starting,	7,5
				Business in a changing Society	7,5
	Management	7,5	Operations Management	7,5	
BSc IN SOFTWARE DEVELOPMENT					
Queensland University of Technology, Australia	Business Processes and Organization	15	Business of Information Technology	7,5	
			Corporate Systems	7,5	
	Development in Larger Groups	7,5	Software Development	7,5	
	Programming	7,5	Programming Paradigms	7,5	
	Organization	7,5	Project Management	7,5	
	Operation Systems and C	7,5	Microprocessors and Digital Systems	7,5	
Elective	7,5	Artificial Intelligence	7,5		
		Systems Programming	7,5		
City University of Hong Kong, China	Business Processes and Organization	15	Managing Software Projects	6	
			Software Testing and Maintenance	6	
	Operation Systems and C	7,5	Operating Systems	6	
	Electives		AI Game Programming	6	
			Data Intensive Computing	6	
Computer Organization			6		
Hanyang University, Seoul, South Korea	Business Processes and Organization	15	IT and Business Strategy	6	
			International Business	6	
	Operation Systems and C	7,5	C++ Programming	6	
			Introduction to Embedded Systems	6	
Programs as Data	7,5	Compilers	6		
FPT University, Ho Chi Minh City, Vietnam	Business Processes and Organization	15	IT Application in Enterprise	6	
			Enterprise Resources Planning	6	
			Software Entrepreneurship	6	
	Operation Systems and C	7,5	Operating Systems	6	
			Programming Fundamentals	6	
Elective		Software Entrepreneurship	6		
FPT University, Hanoi, Vietnam	Introduktion til database design	7,5	Introduction to Databases	6	
	Analyse, design og softwarearkitektur		.NET and C#	6	
			Software Requirement	6	

		Software Engineering	15	Introduction to Software Engineering	6	
		Mobile og distribuerede systemer	7,5	Computer Network	6	
BSc IN DIGITAL MEDIA & DESIGN						
	Maastricht School of Management, The Netherlands	Electives		Marketing Management	3	
				Managing Cultural Diversity	3	
				Entrepreneurship and Innovation	3	
	ISCTE Business School, Lisbon, Portugal	Electives		Globalisation & International Business	6	
				Cross Cultural Communication & Negotiation	6	
				Brand Management and Marketing Communications	6	
				Leadership and Strategic Knowledge	6	
				Innovation & Creativity in Marketing	6	
				Entrepreneurial Marketing	6	
	IED Barcelona, Spain	Electives		Service Design for Innovation	5	
				Innovation and Future Thinking	5	
	ESADE Business School, Barcelona, Spain.	Electives		Critical Thinking	5	
				Entrepreneurship and Innovation	5	
				Technology for Entrepreneurship	5	
				Innovation and Methodology	5	
	Malmö Universitet, Sweden	Elective		15	Visual Communication in Contemporary Media	15
	Georgia Institute of Technology, Atlanta, USA	Electives		Technologies of Representation	7,5	
				Principles of information Design	7,5	
				Principles of Interaction Design	7,5	
				Educational Techonology	7,5	
Graphic and Visual Design				7,5		
	Locative Media		7,5	Graphic and Visual Design	7,5	
	Philosophy of Science		7,5	Technologies of Representation	7,5	
Georgia Institute of Technology, Atlanta, USA	Electives		Constructing the Moving Image	7,5		
			Cinema and Digital Culture	7,5		
			Film and/as Technology	7,5		
			Global Cinema	7,5		
MSc IN DIGITAL INNOVATION MANAGEMENT						
				Data Mining Technology and Applications	7,5	
				Organizational Behavior	7,5	
				Behavioral Economics – Developments and Applications	7,5	

Queensland University of Technology, Australia	Electives		Fundamentals of Business Process Management	7,5
			Creating new ventures	7,5
			Self Leadership	7,5
			Leadership and Executive Coaching	7,5
			Information Management	7,5
			Systems in Project Management	7,5
			Digital Strategy	7,5
	Digital Management, Governance and Accountability	7,5	Management Theory and Practice	7,5
	Reassembling Innovation	7,5	IT Innovation and Disruption	7,5
	Individual Specialization	15	Product and Service Innovation	7,5
			Design Thinking for IT	7,5
		15	Information Programs	7,5
			Project Management Essentials 1	7,5
		15	International Logistics and Management	7,5
			Information Management	7,5
15		Fundamentals of Business Process Management	7,5	
	Network Systems	7,5		
University of Technology Sydney, Australia	Individual Specialization	15	Foundation of data analytics	7,5
			Enabling Enterprise Information Systems	7,5
	Individual Specialization	15	Marketing Management	7,5
			Products Innovation Management	7,5
	Reassembling Innovation	7,5	Strategic Leadership for Innovation	7,5
			Business Intelligence for Decision Support	7,5
	Electives		Enabling Enterprise Information Systems	7,5
People Management for IT			7,5	
European University Viadrina Frankfurt, Germany	Individual Specialization	15	Advanced Business Analytics	6
			Programming & Software Technology	6
	Reassembling Innovation	7,5	Selected Topics in Creativity Research	6
	Digital Change Management	7,5	Culture, leadership and Diversity	6
			Course	6
	Individual Specialization	15	Advanced Business Analytics	6
Programming & Software Technology			6	
Dublin City University, Ireland	Individual Specialization		Statistical Data Analysis	7,5
			Cloud Architectures	7,5

Dublin City University, Ireland	Elective		Data management and Visualisation	7,5
	Reassembling Innovation	7,5	High-Tech Innovation and Entrepreneurship	7,5
Kyoto University Graduate School of Informatics, Japan	Individual Specialization	22,5	Information System Analysis	6
			Statistical Learning Theory	6
			Pattern Recognition (Advanced)	6
			Language Information Processing	6
	Digital Management, Governance and Accountability (1 of 3 courses)	7,5	Information System Design	6
			(if above not feasible)	6
feasible)			6	
University of Liechtenstein, Liechtenstein	Individual Specialization		Process Analysis	9
			Process Implementation	6
	Reassembling Innovation	7,5	Innovation LAB & Process Management	9
			Project Seminar BPM	6
Amsterdam University, The Netherlands	Elective		Digital Methods	6
			Report 3.5 pages (ITU)	1,5
Victoria University of Welling, Wellington, New Zealand	Individual specialization	15	Databases and Analytics	7,5
			Process Design	7,5
	Individual specialization	15	Design	7,5
			UX Design Practice	7,5
	Electives		Business and Systems Analysis	7,5
			Current issues in Information Systems Research	7,5
			Digital Technologies for Information Professionals	7,5
			Qualitative Research methods	7,5
Reassembling Innovation	7,5	7,5	IT Innovation, Value and Productivity	7,5
Auckland University of Technology, New Zealand	Digital Change Management	7,5	Advanced Project Management	15
	Electives		Digital Interaction and User Engagement	7,5
			Digital Strategies	7,5
			Intelligence Surveillance	7,5
			Reassembling Innovation	7,5
	Individual Specialization	15	Advanced project management	15
			Usage Centered Design	7,5
Business Analytics			7,5	
			Data analysis and decision modelling	7,5

	James Cook University, Singapore, Singapore.	Electives		People in Organisations	7,5
				Management accounting	7,5
		Reassembling Innovation	7,5	Technoproneauship	7,5
				The changing business environment	7,5
		Individual Specialization	7,5	Data Mining	7,5
	Hanyang University, Seoul, South Korea	Reassembling Innovation	7,5	Communication Systems	7,5
				Organisational Behaviour	6
		Individual Specialization	15	Statistics and Research Method	5
				System-Level Integration Technology	5
				Statistics in Advertising & PR	5
		Individual Specialization	15	Personalised Data Mining in IoT	6
			Big Data Processing	6	
			Consumer Behaviour	6	
	Universidad Autónoma de Madrid, Spain	Elective		People Management	7,5
		Reassembling Innovation	7,5	Economy and knowledge management	3,75
				Economic growth and innovation	3,75
		Individual Specialization	15	Economic innovation	5
				Innovation strategy	5
University of Zurich, Switzerland			Economy, organization and innovation	5	
	Individual Specialization	15	Enterprise IT architecture	3	
			Engineering	6+3	
			Taming the Data	6	
	Reassembling Innovation	7,5	Information Management	3+6	
	Elective		Machine learning - non-technical introduction	3	
		Digitalization and Sustainable Development	3		
London South Bank University, UK	Reassembling Innovation	7,5	Data Management	10	
	Elective		Statistical Analysis and Modeling	10	
	Individual Specialization	15	Machine Learning	10	
Boston University, USA	Individual Specialization	15	Data Mining for Business Analytic	7,5	
			Web Analytics For Business	7,5	
	Reassembling Innovation	7,5	The Innovation Process	7,5	
	Elective		IT strategy and Management	7,5	
		Project Production System Design in Construction	7,5		
		City Planning and Geographic Information Systems	7,5		

San Diego State University, USA	Electives		Business Strategy	7,5	
			Entrepreneurship	7,5	
			Seminar in World Business Environment	7,5	
			Organisational Behavior and Leadership	7,5	
			Product Innovation Management	7,5	
			Strategic Brand Management	7,5	
			Financial Management II	7,5	
			Decision Making in the Urban Community	7,5	
			Organizational Communication	7,5	
			Information Systems Analysis	7,5	
			Process Innovation Management	7,5	
			Communication Strategies	7,5	
	Individual Specialization	15		Business Systems Analysis and Design	7,5
				Enterprise Data Management	7,5
				Electronic Business and Big Data Infrastructure	7,5
				Business Data Communications	7,5
				Organizational Behavior and Leadership	7,5
				Product Innovation	7,5
				Decision Making in the Urban Community	7,5
				Creativity and Innovation	7,5
				Digital and Social Media	7,5
			Public relations Media and Methods	7,5	
			Public personnel Administration	7,5	
			Concepts and Issues in Public Administration	7,5	
			Organizational Behavior and Leadership	7,5	
	Product Innovation	7,5			
	Decision Making in the Urban Community	7,5			
Reassembling Innovation	7,5		Public Administrative System Analysis	7,5	
			Entrepreneurship	7,5	
MSc IN SOFTWARE DEVELOPMENT - Advanced Computing Track					
			Principles and Techniques of Data Science	10	
			Principles and Techniques of Data Science	10	
			Theory and Practice of Tangible User Interfaces	10	
			User Interface Design and Development	10	

UC Berkeley, Berkeley, California, USA	Electives	7,5	User Experience Research	10
			Software Engineering	10
			Computer Architecture and Engineering	10
			Industrial Design and Human Factors	10
			Systems and System Programming	10
			Foundations of Data Science	10
			Introduction to Statistics	10
			Protocols	10
			Introduction to Robotics	10
			Cultural Context	10
			Individual Specialization	22,5
Algorithm Design	7,5			
Security	7,5			
Technical University of Munich, Germany	Electives		Business Analytics	5
			Cloud Computing	4
			Techniques and Infrastructures	3
			Criptography (5 ECTS)	5
			Query Optimization	6
			Additional Advanced Practical Course	10
			Connected Mobility Basics	8
			Blockchain Based System Engineering	4
			Practical Course Enterprise Software	10
			Advanced Programming	7,5
Victoria University of Wellington, New Zealand	Electives		User Experience Design Practice	7,5
			Human Computer Interaction	7,5
			Graphic Design Practice	7,5
			Graphics	7,5
			Learning and Motivation	7,5
Polytechnic University of Catalonia, Spain	Electives		Processor Design	6
			Compilers for High Performance Computers	6
			Processor Architecture	6
			Information Retrieval	6
			Statistical Modelling and Design of Experiments	6
			Randomized Algorithms	6

Eidgenössische Technische Hochschule Zürich, Switzerland	Electives		Distributed Systems Laboratory	10
			Mobile and Personal Information Systems	4
			Hardware Acceleration for Data Processing	2
			Executive Data Science	2
			Security of Wireless Networks	5
			Current Topics in Information Security	2
			Introduction to Security Studies	4
			Cyber Security	3
			Technology	3
			Transport Planning Methods	6
			Technology and Innovation for Development	3
			Bridging Science, Technology and Policy	3
			Challenges	3
			Research Topics in Software Engineering	2
			Research Ethics	2
MSc IN SOFTWARE DEVELOPMENT - Design Track				
Tallinn University of Technology, Estonia	Elective		E-Governance and E-Democracy	6
			Advanced Programming	6
	Individual Specialization	15	Robotics	5
			Networks of Smart Things	6
Vrije University (Amaterdam),The Netherlands	Elective	7,5	Programming in Python	3
			Big Ideas in Computer Science	3
Warwick Summerschool, London, United Kingdom	Elective	7,5	Introduction to Artificial Intelligence	7,5
ECE Paris, France	Elective	7,5	Augmented and Virtual Reality in our Society	8
MSc IN DIGITAL DESIGN & COMMUNICATION				
University of Technology Sydney, Australia	Individual specialization	15	Enabling Enterprice Information Systems	7,5
			Business Systems Design	7,5
	Electives		Business Intelligence	7,5
			Project Innovation & Entrepreneurship	7,5
			Financial Management	7,5
			Project Finance and Analysis	7,5
			New Project Management	7,5

			Digital Marketing for Managers	7,5
Swinburne University of Technology, Australia	Individual Specialization	15	Social Media Analytics	7,5
			Social Media Management Project	7,5
	Individual Specialization	15	Eco-Design	7,5
			Interaction Design and Development for Screens	7,5
	Electives		Multiplatform Media Production & Practice	7,5
			Design Futures	7,5
	Global IT	7,5	Media Economy	7,5
Journalism in Context			7,5	
Queensland University of Technology, Australia	Individual Specialization	15	Integrated Marketing Communication	7,5
			Consumer Behavior	7,5
	Electives		Digital Strategy	7,5
			Innovation and Disruption	7,5
			Marketing and Suvey Research	7,5
	Global IT	7,5	Marketing Internationally	7,5
Managing in a Globalised Economy			7,5	
Istituto Europeo di Design, Italy	Elective	7,5	Graphic Design and Portfolio	7,5
Future University Hakodate, Japan	Elective	7,5	Advanced Topics in Autonomous system 1+2	7,5
	Individual specialization	15	Special Topics of Interactive Systems 1+2	15
University of Amsterdam, The Netherlands	Individual Specialization	15	New Media Theories Research Seminar	7,5
			New Media Research Practices	7,5
	Elective	7,5	New Media Research Methods	7,5
Victoria University of Wellington, New Zealand	Electives		User Experience Design Practice	7,5
			Human Computer Interaction	7,5
			Professional Practice	7,5
	Individual Specialization	15	User Experience Design Practice	7,5
			Graphic Design	7,5
	Individual Specialization	15	Graphic Design practice	7,5
Design Professional Practice			7,5	
ISCTE Business School, Lissabon, Portugal	Elective	7,5	Entrepreneurial Marketing	7,5
IED Barcelona, Spain	Elective	7,5	Design Thinking for Business Transformation	5
			Project (ITU)	2,5
	Individual Specialization	15	News and Social Media	3 Credits

	San Diego State University, USA	Individual Specialization	1,5	Research	3 Credits
		Electives		Advertising Creative Development	3 Credits
				Mobile Applications for Learning	3 Credits
	Parsons New School of Design, New York, USA	Electives		Graphic Design I	7,5
				Graphic Design I	7,5
				Graphic Design II	7,5
MSc IN COMPUTER SCIENCE					
	Auckland University of Technology, New Zealand	Electives	7,5	Video and image Processing	7,5
				Data Mining and Machine Learning	7,5
				Cloud Computing	7,5
				Research Methods	7,5
				Internet of Things and Applications	7,5
		Specialization Course	7,5	Software Requirements Engineering	7,5
	Kyoto University, Japan	Elective	7,5	Information System Design	6 Credits
				Language Information Processing (Advanced)	6 Credits
		Algebra and Probability	7,5	Pattern Recognition	6 Credits
				Statistical Learning Theory	6 Credits
	Polytechnic University of Milano, Italy	Electives	7,5	Digital innovation Lab	5 Credits
				Hypermedia Application	5 Credits
				Internet of Things	5 Credits
				Multimedia Internet	10 Credits
				Virtual and Mixed Reality	5 Credits
				Wireless Networks	10 Credits
		Specialization Course	7,5	Robotics	5 Credits
	Queensland University of Technology (QUT) Brisbane, Australia	Electives	7,5	Advanced Network Engineering	7,5
				Programming Language Theory	7,5
		Security 2	7,5	Applied Cryptography and Network Security	7,5
Specialization Course		7,5	Mobile and Pervasive Systems	7,5	