

Master + Premaster Overview CreaTe for academic year 2016 – 2017

Datum: April 2016

! Important dates for registration minor office: 20/4 closure enrollment of “leren lesgeven” UT minor, 10/5 is closure enrollment of other HTHT minors at UT!

All Master studies highlighted in green have premasters that need registration at the minor office before the 10th of May 2016!

Study	Information						
	University – Faculty	Study	Coordinator	Pre-master ECs	Sem. 1 or 2	Master description	Prior Knowledge
Human Media Interaction	UT- EWI	HMI	Khiet Truong	0	-	This Masters programme focuses on intelligent, socially aware, interactive systems designed to automatically meet user needs. It covers human computer interaction and artificial intelligence.	-
Electrical Engineering: Biomedical App., Micro – systems, Mechatr., Telecom, IC Des./Com. Arc., Im. & Sign. Proc.	UT- EWI	EE	Maarten Korsten	30	1	Electrical Engineering teaches you how modern technology can be used to further enhance, accelerate or scale down electronics-based systems. You will be challenged to improve high-tech systems with an emphasis on themes such as sustainability, health and safety.	Smart Tech
Embedded Systems	UT- EWI	ES	Bert Molenkamp	30	1	Embedded systems are hardware-software systems embedded into a larger product. The master programme focuses on how to design good, i.e. efficient and reliable, embedded systems.	Smart Tech
CS- Wireless Sensor Networks	UT- EWI	CS	Hans Scholten	30	1	WiSE studies the area of smart environments or smart spaces, made possible by multitudes of connected and collaborating sensors on land, underwater or in the air.	-
CS – Other tracks: Security, Software Eng., Software Tech., MTV	UT- EWI	CS	Marloes Grinsven	30	1		-
Telematics	UT- EWI	Tel	Pieter-Tjerk de Boer	30	1	Are you fascinated by the endless possibilities of the internet and smartphones? Do you wonder what the future will bring as everything in the world gets connected? Do you want to take part in this development? This is Telematics!	-
Business Information Technology BIT – Enterprise Arch. BIT – IT Manag. & Inn. BIT – Business Analyt.	UT- EWI	BIT	Marloes Grinsven	30	1	The programme will prepare you to occupy a leading position in the field of information systems. Management and IT form the core of your training. You will learn how to integrate and apply your newly acquired knowledge in a broad organizational context.	-
Systems and Control - Mechatronics	UT- EWI	S&C	Maarten Korsten / Peter Breedveld	30	1	This 3TU master programme offers three specialisations – Robotics & Mechatronics, Biomechatronics and Control Theory. It encompasses both the fundamentals and the applications of biomedical engineering, robotics, precision equipment, MEMS (mechanical electronic micro systems) and hybrid systems.	Smart Tech

Industrial Design Engineering – All 4 tracks	UT- CTW	IDE	Hiske Schuurman	30	1	The Masters programme is academically focused, with the emphasis on design methodologies and problem-solving strategies underpinned by a solid theoretical foundation.	Premaster partially in Dutch!
Sustainable Energy Technology	UT- CTW	SET	Winnie Gerbens-Leenes	30	1	SET offers you a multidisciplinary technical programme with additional subjects from the social sciences that anticipate the impact of technological developments. This multidisciplinary approach is reflected by the involvement of several departments.	Smart Tech
Philosophy of Science and Technology	UT- BMS	PSTS	Jan Nelissen	0	-	This master is for anyone who is interested in analysing and evaluating the role of technology in a broader social contexts. It attracts students who have both affinity with technology and abilities to philosophically reflect on the influence of technology on society.	-
Educational Science and Technology – All 2 tracks	UT- BMS	EST	Jan Nelissen	30	1	The main focus of the Masters programme in Educational Science and Technology (EST) is on the design and evaluation of learning scenarios in schools and organisations:	-
Science Education and Communication (leren lesgeven - Informatica)	UT- BMS	SEC	Gerdy ten Bruggencate	30	1	Two years' teacher education programme (1st degree teacher certificate): one educational year, one technical master year (linked to the school subject): Computer Science or Mathematics.	Master is in Dutch!
Business Administration	UT- BMS	BA	Andre Veenendaal	30	1	The MSc programme teaches you how to help organizations improve their business and solve complex problems. You will work on these solutions in a challenging, high-tech environment by combining state-of-the-art theory with practical application.	-
Communication Science: – Technical communication track.	UT – BMS	CS	John Sevens/ Jeanet Luijterink	15	1 or 2	As organizational forms grow ever more complex, communication becomes increasingly important. At CS you will study communication issues within their complex organizational contexts. Professional communication within, by and between organizations is at the heart of our curriculum.	-
Biomedical Engineering – 1 of 3 tracks: Neural and Motor Sys.	UT –TNW	BME	Theo van Dam / John Huttenhuis	30	1	Biomedical Engineering is an interdisciplinary field, combining engineering disciplines and natural and life sciences. The Biomedical Engineer works to increase scientific knowledge and solve health care problems.	Smart Tech
Game and Media Technology	University of Utrecht	GMT	Erik Faber (UT)/ Maarten Löffler (UU)	30			-
Media Technology	Leiden University	MT	Nanda Milbreta	0	-		-
Industrial Design Engineering	TU/e (Eindhoven)	IDE	Lieke Thijssen	0	-		-
Human Technology Interaction	TU/e (Eindhoven)	HTI	Judith Smits	30			-
EIT – International Master School	Europe		Jan Schut	0 – 30		Note: 8 different tracks of which 2 can be taken at UT. Note 2: there is a selection procedure!	

University	Faculteit	Master	Track	Master (track) coordinator	Premaster EC	Requirements	Premaster Information														
							Quartile	Course/ module	Study	Name	EC	Code	Mandatory?	Coordinator	Website	Comments					
UT	EWI	Computer Science	Wise	Hans Scholten	90EC from Y1 and 30 Y2	1 Module 5 2 Module 2	CS/ EE CS / BIT	Computer Systems Software Systems	15 15	201400120 Y 201300071 Y	Y	André Kokkeler Marieke Huisman	Preferred module Adapted Math part in this module								
														3 Module 3	CS/EE	Network Systems	15	201400431 module 2 or 5	Y	Pieter Tjerk de Boer	Module 2 and 5 fit in minor space. However, students with delay can swap one of these modules for a module in quartile 3 (semester 2) Module 2 and 5 fit in minor space. However, students with delay can swap one of these modules for a module in quartile 3 (semester 2)
UT	EWI	Computer Science	Security Information Software Engineering Software Technology Methods & Tools for Verification	Marloes Grinsven	90EC from Y1 and 30 Y2	1 Module 5 2 Module 2	CS/ EE CS / BIT	Computer Systems Software Systems	15 15	201400120 Y 201300071 Y	Y	André Kokkeler Marieke Huisman	Adapted Math part in this module								
														3 Module 3	CS/EE	Network Systems	15	201400431 module 2 or 5	Y	Pieter Tjerk de Boer	Module 2 and 5 fit in minor space. However, students with delay can swap one of these modules for a module in quartile 3 (semester 2) Module 2 and 5 fit in minor space. However, students with delay can swap one of these modules for a module in quartile 3 (semester 2)
UT	EWI	Telematics		Pieter-Tjerk de Boer	90EC from Y1 and 30 Y2	1 Module 5 2 Module 2	CS/ EE CS / BIT	Computer Systems Software Systems	15 15	201400120 Y 201300071 Y	Y	André Kokkeler Marieke Huisman	Adapted Math part in this module								
														3 Module 3	CS/EE	Network Systems	15	201400431 module 2 or 5	Y	Pieter Tjerk de Boer	Module 3 is for Telematics most recommended module. Module 2 and 5 fit in minor space. However, students with delay can swap one of these modules for a module in quartile 3 (semester 2) Module 2 and 5 fit in minor space. However, students with delay can swap one of these modules for a module in quartile 3 (semester 2)
UT	EWI	BIT		Maarten Korsten	90EC from Y1 and 30 Y2	1 Module 5	BIT/TBK	Finance for Engineers	15	201400301	Y	Berend Roorda	http://www.utwente.nl/bit/studieprogramma								
														2 Module 2	CS / BIT	Software Systems	15	201300071 Y	Y	Marieke Huisman	Adapted Math part in this module
UT	EWI	Electrical Engineering		Maarten Korsten	90EC, Mod 5 = ST, Mod 5 and 8 30 passed	EE Premaster HBO	EE	Calculus A Linear Algebra Digital Logic and Computer Organization Linear Systems Academic Research Skills Calculus B Linear Systems (continuation) Electricity & Magnetism HBO Academic Research Skills (continuation)	5 3 3 2 2 4 4 5 2	201500291 201500292 201500252 191231490 201400279 201500293 191231490 191403070 201400279	Y	Maarten Korsten	http://www.utwente.nl/ee/Programme%20information/Premaster%20programme%20								
														1 premaster HBO	Calculus A	5	201500291				
														1 premaster HBO	Linear Algebra	3	201500292				
														1 premaster HBO	Digital Logic and Computer Organization	3	201500252				
														1 premaster HBO	Linear Systems	2	191231490				
														1 premaster HBO	Academic Research Skills	2	201400279				
														2 premaster HBO	Calculus B	4	201500293				
														2 premaster HBO	Linear Systems (continuation)	4	191231490				
														2 premaster HBO	Electricity & Magnetism HBO	5	191403070				
														2 premaster HBO	Academic Research Skills (continuation)	2	201400279				
UT	EWI	Embedded Systems		Bert Molenkamp	90EC, Mod 5 = ST, Mod 5 and 8 30 passed	Embedded Systems Premaster HBO	Embedded Systems	Calculus A Calculus B	5 4	201500291 201500293	Y	Bert Molenkamp	http://www.utwente.nl/ems/programmes/premaster_embedded_syst								
														1 premaster HBO	Calculus A	5	201500291				
														2 premaster HBO	Calculus B	4	201500293				

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							Quartile	Course/ module	Study	Name	EC	Code	Mandatory?	Coordinator	Website	Comments	
								1	premaster HBO		Linear Algebra A	3	191512061				
								1	premaster HBO		Linear Systems	2	191231490				
								2	premaster HBO		Linear Systems	4	191231490				
							1 or 2	premaster HBO		Calculus C	3	191512041					
							1 or 2	premaster HBO		Digital Logic and Computer Organization	4	201400315					
							1 or 2	premaster HBO		Instrumentation for Embedded Systems	5	191210001					
UT	EWI	Systems & Control	Mechatronics	Maarten Korsten	90EC, Mod 5 = ST, Mod 5 and 8	30 passed			Systems and Control	Systems and Control			30	Y	Maarten Korsten	http://www.utwente.nl/sc/programme/premaster/	
								1	premaster HBO		Calculus A	5	201500291				
								1	premaster HBO		Linear Algebra A	3	201500292				
								1	premaster HBO		Digital Logic and Computer Organization	4	201400315				
								1	premaster HBO		Linear Systems	2	191231490				
								1	premaster HBO		Academic Research Skills	2	201400279				
								2	premaster HBO		Calculus B	4	201500293				
								2	premaster HBO		Linear Systems	4	191231490				
								2	EE module 6		Control Engineering ¹⁾	4	191210441				
								2	premaster HBO		Academic Research Skills	2	201400279				
UT	EWI	Human Media Interaction		Mannes Poel									0			http://hmi.utwente.nl/	Direct admission
UT	CTW	Industrial Design Engineering	Design and Estuling Emerging Technology Design Management of Product Development Cradle to Cradle	Hiske Schuurman	90EC from Y1 and 30 Y2									Y	Thonie van den Boomgaard	1st year courses are now in English, 2nd year courses are this year still in Dutch	
								1	ME module 1		Technisch product modellen (WB-B1)	2	201400443				
								1	IDE module 5		Fysiek Ergonomie (B2) Inleiding Industriel Ontwerpen	2.5	201400404				
								1	IDE module 1		Statica (WB-M1)	2	201500247				
								1	ME module 1		Project Mens Product						
								1	IDE module 5		Relaties (B2)	7.5	201400405				
								2	IDE module 2		Constructie (B1)	2.5	201500230				
								2	IDE module 6		Technisch Product modellen 2 (B2)	2.5	201500233				
								2	IDE module 6		Productie	2.5	201400470				
								2	IDE module 6		Project Consumenten Producten (B2)	7.5	201400413				
UT	CTW	Sustainable Energy Technology		Winnie Gerbens-Leenes	90EC, Mod 5 = ST, Mod 5 and 8	30 passed			SET premaster HBO	SET / WB			30	Y	Winnie Gerbens-Leenes		
								1	premaster HBO		Calculus A	5	201500291				
								1	premaster HBO		Linear Algebra A	3	191512061				
								1	ME module		Programming in Engineering (Matlab)	1.5	191158510				
								1	ME module 1		Statica (WB - Mod1)	2	201500247				
								1	ME module 5		Dynamica 1 (WB -Mod5)	3.5	201400388				
								2	premaster HBO		Calculus B	4	201500293				
								2	ME module 2		Technische Thermodynamica (WB-Mod2)	3	201400035				
								2	CE module 6		Fluid Dynamics (ST-Mod6)	3	201500209				
								2	CE module 6		Heat&Mass transfer (ST-Mod6)	4.5	201500210				
UT	BMS	Educational Science & Technology (Dutch: Onderwijskunde)	Learning in Education Learning in Organisations	Jan Nelissen	90EC from Y1 and 30 Y2				1 Module 9	Psy	Psychology in learning and instruction Professional learning in Organisations		15	201400212			These is an elective module psychology, however mandatory in this premaster
									2 Module 10	Psy			15	201500001			
UT	BMS	Philosophy of Science, Technology and Society (PSTS)		Jan Nelissen	90EC from Y1 and 0 Y2								0			http://www.utwente.nl/psts/	Direct admission

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UT	BMS	Business Administration		Andre Veenendaal Petra de Weerd-Nederhof	30 Y2	90EC from Y1 and	1	Module 5 from IBA	IBA	Strategy, Marketing & Economics	15	201400064	Y												
							2	HT HT module 10	IBA	New Technology Business Development (HTHT)	15	201500065	Y												
UT	BMS	Communication Science		John Sevens Jeanet Luijckink	15 Y2	90EC from Y1 and	1 OR 2 OR3 OR4	Module 5 OR 6 OR 7 OR 8	CW	1 out of 4 options: Each of the 2nd year CW bachelor modules are fine, i.e. M5 or M6 or M7 or M8	15		Y												
UT	TNW	BME Biomedical Engineering Dutch: BMT	Imaging and Diagnostics	John Huttenhuis Theo van Dam	90EC, Mod 5 = ST Mod 5 en 8 gehaald	1 To be decided 2 Module 10		BME BME	Imaging and Diagnostics	15	Y Y			Discuss with study advisor about this one											
																	Neural and Motor Systems	90EC, Mod 5 = ST Mod 5 en 8 gehaald	1 Module 9 2 To be decided	BME BME	Neural and Motor Systems	15 ?	Y Y		Students must do a catch-up course Linear Algebra at own initiative
EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN	EXTERN									
Leiden University	?	Media Technology		Nanda Milbreta							0			http://mediatechnology.leid	Direct admission										
UU		Game and Media Technology (GMT)		Erik Faber (UT) / Maarten Löffler (UU)	90EC		Parts of premaster HBO programs and Module 2 and 5 CS				5	201500291					Under construction								
							1 Premaster HBO		Calculus A		3	201500292													
							1 Premaster HBO		Linear Algebra A		4	201400388													
							1 Module 5 CS		Discrete Mathematics		3	201200226													
							1 Course Create		Supplementary Topics (literature research part 1)		5	192140200													
							2 Premaster HBO		Algorithms, Datastructures and Complexity (ADC)		8	201500112													
							2 Module 2 CS		Programming theory + project		2	201200225													
							2 Course Create		Supplementary Topics (literature research part 2)																
TU/e Technische Universiteit Eindhoven		Industrial Design Engineering		Lieke Thijssen	90EC	1+2	one semester at TU/E in portfolio based education	IDE						https://www.tue.nl/universiteit/faculteiten/industrial-design/	Students can follow one semester of education at IDE in Eindhoven. This is not mandatory										
TU/e Technische Universiteit Eindhoven		Human Technology Interaction		Jaap Ham	90EC	1 of 2 of 3 of 4	mandatory for all: Introduction Psychology & Technology				5	0HV10	Yes	https://www.tue.nl/studeren/tue-graduate-school/masteropleidingen/h											
				email 1-10-2015			Next, students choose either b1. or b2.																		
							b1. Cognition																		
							Q2A Social Psychology and Consumer Behavior	HTI			5	0HV30													
							Q4C Thinking and Deciding	HTI			5	0HV60													
							Q1B HTI in Social Context	HTI			5	0HV80													

