

Note: the master admission requirements listed are an indication of what is required to become admissible for the master's programmes. Always check with the master's programme if these requirements are still valid.

Faculty of Science and Technology

Applied Physics
Biomedical Engineering
Chemical Engineering
Nanotechnology

Faculty of Engineering Technology

Civil Engineering and Management
Construction Management and Engineering
Industrial Design Engineering
Mechanical Engineering
Sustainable Energy Technology

Faculty of Electrical Engineering, Mathematics and Computer Science

Business Information Technology
Computer Science
Electrical Engineering
Interaction Technology
Internet Science and Technology
Systems and Control

Faculty of Behavioural, Management and Social Sciences

Business Administration
Industrial Engineering and Management

Faculty of Geo-information Science and Earth Observation (ITC)

Spatial Engineering

Master: Applied Physics

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/aph/>Contact person [Dr. E.S. Kooij](#)**Procedure for admission**

After AT module 9 you should arrange a meeting with Ms. B.M. Tel, study advisor of Applied Physics. Together with her you can go over the master's programme and choose a master's specialization.

Track: -

Block	code	name	EC	Remarks	minor
1.A	201800130	Condensed Matter Physics (for AT)	15	Module AT9	IM
1.B	201500155	Quantum mechanics	6	Part of module TN6 (enrol for entire module)	JM
	201500155	Hilbert spaces	2	Part of module TN6 (enrol for entire module)	JM
	1 out of 2 choice:			dependant on the APH specialization	
	201500155	Optics	7	Part of module TN6 (enrol for entire module)	JM
	201600068	Physics of fluids	7	Part of module TN8 (enrol for entire module)	
2.A			15	Free choice	
2.B	201600068	Electrodynamics	6	optional in B or M; part of module TN8 (enrol for entire module)	
	201700099	Bachelor Assignment	15		

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Business Administration

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/ba/>

Contact person [C.G.M. Röring](#)

Procedure for admission

All students considering this master, please contact the study advisor, Ms C.G.M. Röring, by sending an e-mail or by making an appointment before the first quarter of your third year.

Track: Entrepreneurship Innovation & Strategy (EIS)

Track: Strategic Marketing & Digital Business (SMDB)

Track: EIS: 2 year double degree program MSc Innovation Management, Entrepreneurship & Sustainability with TUBerlin

Block	code	name	EC	Remarks	minor
1.A	201700013	Strategy, Marketing & Economics	15		JM
1.B	201700014	High Tech Talent Management in a Global Context	15		IM
2.A			15	Free choice	
2.B	201700099	Bachelor Assignment	15	Module AT12	

- 1) Before the start of the academic year, communicate names of students to BA that will take these modules as premaster.

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Business Information Technology

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/mbit/>Contact person [Drs. M. van Grinsven](#)**Procedure for admission**

At the end of the third year, please contact the programme coordinator Ms. M. van Grinsven for admission to the master's programme.

Track: -

Block	code	name	EC	Remarks	minor
1.A	201400301	Finance for Engineers	15	BIT/IEM M5	JM
1.B	201700117	Software Systems	12	BIT/CS M2; replacement for Math B2, Introduction to Mathematical Analysis (3 EC)	JM
2.A					
2.B	201700099	Bachelor Assignment	15	Module AT12	

Note: Module 5 BIT may be replaced by module 7 BIT: From product design to online business, if the student would like to spend the third quarter for preparation.

Note: If AT-students don't have course in Probability & Statistics, they might have to take Statistics and probability theory (3EC) as math replacement in Module 2, instead of IMA.

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Biomedical Engineering

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/bme/>Contact person [J. Huttenhuis](#)**Procedure for admission**

Before the registration period of the minors (around the start of the 2nd semester of your 2nd year) please arrange a meeting with the Ms. A. Dummer, study advisor of Biomedical Engineering. She will inform you about the programme and research chairs.

Track: Neural Motor Systems

Block	code	name	EC	Remarks	minor
1.A	201700147	Biorobotics	15	HTHT minor	
1.B					
2.A					
2.B	201700099	Bachelor Assignment	15		

Track: Imaging and Diagnostics

Block	code	name	EC	Remarks	minor
1.A					
1.B	201600198	Imaging and Diagnostics	15	BMT M10 (in Dutch)	
2.A					
2.B	201700099	Bachelor Assignment	15		

Track: Bionano

Block	code	name	EC	Remarks	minor
1.A	201400224	Cell Biology / Bio Lab Work		BMT M5 (in Dutch)	
1.B					
2.A	201600237	Bionanotechnology & Advanced Biomanufacturing		BMT M11 (in Dutch)	
2.B	201700099	Bachelor Assignment	15		

Track: Biorobotics

Block	code	name	EC	Remarks	minor
1.A	201700147	Biorobotics	15	HTHT minor	
1.B					
2.A					
2.B	201700099	Bachelor Assignment	15		

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Civil Engineering and Management

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/cem/>Contact person [E.M. Blokhuis, MSc.](#)**Procedure for admission**

Somewhere around May/June of your 2nd year, please send an e-mail about your participation to Ms. J.G.M. Kemna, pre-master coordinator of the faculty Engineering Technology.

Track: Construction

Block	code	name	EC	Remarks	minor
2.A	201700099	Bachelor Assignment AT	15	Module AT12	
2.B	201400145	Design of constructions (CE4)	12	English (replacement for Calculus 2 needs to be found)	JM
		Replacement for Calculus 2	3	Replacement course can also be taken in block 1A or block 1B (for example Preparation Bachelor Assignment, Programming in Engineering, or Introduction to Mathematical Analysis)*	

Track: Water

Block	code	name	EC	Remarks	minor
1.A	201400144	Safety and risk in Delta's (CE5)	15	English	JM

Track: Transportation

Block	code	name	EC	Remarks	minor
2.A	201300145	Traffic and Transport (CE3)	15	English with a suitable replacement for Math C1	JM

Track: Integrated Civil Engineering Systems

Block	code	name	EC	Remarks	minor
1.A	201700181	Safety and risk in Delta's (CE5)	15	English	JM
2.A	201600251	Area development (CE7)	15	English	JM

*In consultation with programme staff the most suitable minor will be determined.*** Consult with your study advisor about which course fits your study planning.*

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Chemical Engineering

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/che/>Contact person [A.S. Elbersen - Grote](#)**Procedure for admission**

Please contact Ms. A.S. Elbersen for an introductory meeting before the start of the master's (around the end of your third year).

Track: Chemical and Process Engineering

Block	code	name	EC	Remarks	Minor
B2 1.B	201800129	Materials Science and Engineering	15	Module AT6a	Minor
B3 1.A	201500151	Basics for Process Design	3	Required! Extra selfstudy course in preparation of module ST8	JM/HM/IM
	201500098	Industrial Processes (optional)	15	Optional! If Physical Chemistry of Interfaces was taken in module AT6 replace with Process Technology.	
B3 1.B	201400162	Transport Phenomena	15	Module CSE/AT6b	JM
B3 2.A	201700099	Bachelor Assignment	15	Module AT12	
B3 2.B	201400164	Process Design	15	Module CSE8a	

Track: Molecular and Materials Engineering*

Please note that if you want to go into the MME direction, you need to take CSE module 7. As this module contains a lab part, you need to contact the CSE programme coordinator in the first quarter to inform if any lab places are available.

Option 1

Block	code	name	EC	Remarks	Minor
B2 1.B	201800129	Materials Science and Engineering	15	Module AT6a	Minor
B3 1.A			15	Free Choice	
B3 1.B			15	Free Choice	
B3 2.A	201500099	Molecules and Materials	15	Module CSE7 (ask the programme coordinator about the available places)	
B3 2.B	201700099	Bachelor Assignment	15	Module AT12	

* For an orientation towards organic chemistry, please contact the study advisor

Option 2

Block	code	name	EC	Remarks	Minor
B3 1.A			15	Free Choice	
B3 1.B	201800129	Materials Science and Engineering	15	Module AT6a	IM
B3 2.A	201500099	Molecules and Materials	15	Module CSE7 (ask the programme coordinator about the available places)	
B3 2.B	201700099	Bachelor Assignment	15	Module AT12	

* For an orientation towards organic chemistry, please contact the study advisor

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Construction Management and Engineering (3TU)

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/cem/>Contact person [E.M. Blokhuis, MSc.](#)**Procedure for admission**

Somewhere around May/June of your 2nd year, please send an e-mail about your participation to Ms. J.G.M. Kemna, pre-master coordinator of the faculty Engineering Technology.

Track: -

Block	code	name	EC	Remarks	minor
2.A	201700099	Bachelor Assignment AT	15	Module AT12	
2.B	201400145	Design of constructions (CE4)	15	English	JM

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Computer Science

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/csc/>Contact person [Drs. M. van Grinsven](#)**Procedure for admission**

At the end of the third year, please contact the programme coordinator Ms. M. van Grinsven for admission to the master's programme.

Track: Cyber Security

Block	code	name	EC	Remarks	minor
1.A	201400210	Computer Systems (CS5)	15		JM/HM/IM
1.B	201700117	Software Systems (CS2, optional)	12	Math B2 replaced by Introduction to Mathematical Analysis (3EC) or 192140200 Algorithms, Data structures, Complexity (5EC)	JM
1.B	201400385	Introduction to Mathematical Analysis	3	replacement for Math B2	
2.A	201600197	Network Systems (EE7)	15		
2.B	201700099	Bachelor Assignment	15	Module AT12	

Track: Data Science & Technology; Software Technology

Block	code	name	EC	Remarks	minor
1.A	201400210	Computer Systems (CS5, optional)	15	Optional module	JM/HM/IM
1.B	201700117	Software Systems (CS2)	12	Math B2 replaced by Introduction to Mathematical Analysis (3EC) (or 192140200 if T12 + T15, not in combination with T17)	JM
1.B	201400385	Introduction to Mathematical Analysis	3	replacement for Math B2	
2.A	201700304	Discrete Structures and Efficient Algorithms (CS7)	15		
2.B	201700099	Bachelor Assignment	15	Module AT12	

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Electrical Engineering

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/mee/>Contact person [Dr. M.J. Korsten](#)**Chairs: Nano Electronics (NE)****Semiconductor Components (SC)****Integrated Optical Systems (IOS)**

Block	code	name	EC	Remarks	minor
1.A	201800130	Condensed Matter Physics (for AT)	15	Module AT9	IM
1.B			15	Free choice	JM/HM
2.A	201400430	Device Physics	15	Module EE7 without quantum physics; with ...	
2.B	201700099	Bachelor Assignment	15	Module AT12	

Chairs: Biomedical and Environmental Sensorsystems (BIOS)**Transducer Science and Technology (TST)**

Block	code	name	EC	Remarks	minor
1.A	201800130	Condensed Matter Physics (for AT)	15	Module AT9	IM
1.B	201700076	Systems and Control - AT	15		IM
2.A			15	Free choice	
2.B	201700099	Bachelor Assignment	15	Module AT12	

Chairs: Telecommunication Engineering (TE)**Integrated Circuit Design (ICD)****Computer Architecture for Embedded Systems (CAES)****Services, Cybersecurity and Safety (SCS)**

Block	code	name	EC	Remarks	minor
1.A	201400217	Computer Systems	10	Module EE5 without Diff.&diff. Eq. Part	JM
		Computer Architecture and Organisation (3 EC; 201400342)		part of module EE5 (201400217)	
		Digital Hardware (3EC; 201400361)		part of module EE5 (201400217)	
		Project Computer Systems (4 EC; 201400366)		part of module EE5 (201400217)	
	192191500	Self-tuition Project CSc (5 EC)	5	C-programming (replacement for Diff. & Diff. Equations part of module EE5)	
1.B			15	Free choice	JM/HM
2.A	201700099	Bachelor Assignment	15	Module AT12	
2.B	201400432	Signal Processing and Communications	15	Module EE8	

Chairs: Robotics and Mechatronics (RaM)**Biomedical Signals and Systems (BSS)**

Block	code	name	EC	Remarks	minor
1.A	201400217	Computer Systems	10	Module EE5 without Diff.&diff. Eq. Part	JM
		Computer Architecture and Organisation (3 EC; 201400342)		part of module EE5 (201400217)	
		Digital Hardware (3EC; 201400361)		part of module EE5 (201400217)	
		Project Computer Systems (4 EC; 201400366)		part of module EE5 (201400217)	
	192191500	Self-tuition Project CSc (5 EC)	5	C-programming + project (replacement for Diff. & Diff. Equations part of module EE5)	
1.B	201700076	Systems and Control - AT	15	Module AT6c	JM
2.A			15	Free choice	
2.B	201700099	Bachelor Assignment	15	Module AT12	

Chairs: Design and Analysis of Communication Systems (DACS)

Block	code	name	EC	Remarks	minor
1.A	201400217	Computer Systems	10	Module EE5 without Diff.&diff. Eq. Part	JM
		Computer Architecture and Organisation (3 EC; 201400342)		part of module EE5 (201400217)	
		Digital Hardware (3EC; 201400361)		part of module EE5 (201400217)	
		Project Computer Systems (4 EC; 201400366)		part of module EE5 (201400217)	
	192191500	Self-tuition Project CSc (5 EC)	5	C-programming (replacement for Diff. & Diff. Equations part of module EE5)	
1.B			15	Free choice	JM/HM
2.A	201600197	Network Systems	15	Module EE7	
2.B	201700099	Bachelor Assignment	15	Module AT12	

IM: in-depth minor module
 JM: Join-in Minor module
 HM: High Tech/Human Touch Minor module

Master: Industrial Design Engineering

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/ide/>Contact person [A.F. Heutink](#)**Procedure for admission**

At the end of your 2nd year (before August) please send an e-mail to Ms. A.F. Heutink, programme coordinator of IDE, that you are going to participate.

Track: -

Block	code	name	EC	Remarks	minor
1.A	20160057	Introduction Industrial Design Engineering	1	ID1	-
	201400443	Technical Product Modelling	2	ME1	
	201400403	Design Sketching 1	2.5	ID1	
	201400404	Physical Ergonomics	2.5	ID5	
	201400405	Project Human-Product Relations	7.5	ID5	
1.B	201400406	Discovery	2.5	ID2	-
	201400470	Production 1	2.5	ID2	
	201400407	Graphic Design	2.5	ID6	
	201400413	Project Consumer Products	7.5	ID6	
2.A		Free Choice	15		
2.B	201700099	Bachelor Assignment	15		

Master: Industrial Engineering and Management

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/iem/>

Contact person [M.G. van der Meulen](#)

Procedure for admission

At the end of your bachelor's programme, you need to send an e-mail to Ms. M.G. van der Meulen, junior education coordinator of IEM, that includes a motivation letter about the specialization of your choice and a up to date transcript of records.

Track: Financial Engineering

Block	code	name	EC	Remarks	minor
1.A	201500020	Financial Engineering for premaster IEM	10		
	191530420	Probability Theory and Statistics	5		
1.B		Free choice	15		
2.A		Free choice	15		
2.B	201700099	Bachelor Assignment	15	Module AT12	

Track: Production and Logistics Management Health Care Technology and Management

Block	code	name	EC	Remarks	minor
1.A	201500012	OR Models for the premaster IEM	10		
	191530420	Probability Theory and Statistics	5		
1.B		Free choice	15		
2.A		Free choice	15		
2.B	201700099	Bachelor Assignment	15	Module AT12	

Master: Interaction Technology

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/hmi/>

Contact person [dr. K. Zalewska](#)

Procedure for admission

Please contact the programme director, Ms. A.M. Schaafstal, around March so the programme knows you want to participate.

Track: -

Block	code	name	EC	Remarks	minor
1.A	201700139	Pearls of Computer Science	11	TCS/M1	JM
	201500533	Python Programming	5		
1.B	201800421	Intelligent Interaction Design	15	TCS/M6	JM
2.A		Free choice	15		
2.B	201700099	Bachelor Assignment	15	Module AT12	

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Internet Science and Technology

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/ist/>

Contact person [Drs. M. van Grinsven](#)

Procedure for admission

At the end of the third year, please contact the programme coordinator Ms. M. van Grinsven for admission to the master's programme.

Block	code	name	EC	Remarks	minor
1.A	201400210	Computer Systems (CS5, optional)	15	one of two	JM/HM/IM
1.B	201700117	Software Systems (CS2, optional)	12	one of two, Math B2 replaced by Introduction to Mathematical Analysis (3EC) or 192140200 Algorithms, Data structures, Complexity (5EC)	JM/HM/IM
1.B	201400385	Introduction to Mathematical Analysis	3	replacement for Math B2	
2.A	201600197	Network Systems (EE7)	15		
2.B	201700099	Bachelor Assignment	15	Module AT12	

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Mechanical Engineering

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/me/>Contact person [K.G.M. Braakhuis](#)**Procedure for admission**

Somewhere around May/June of your 2nd year, please send an e-mail about your participation to Ms. J.G.M. Kemna, pre-master coordinator of the faculty Engineering Technology.

Track: Design Production and Management (DPM)**Mechanics of Solids, Surfaces and Systems (MS3)****Biomechanical Engineering (BE)****Maintenance Engineering and Operations (MEO)****Thermal and Fluid Engineering (TFE)**

Option 1 (preferred by the ME programme)

Block	code	name	EC	Remarks
1.A	201700147	BioRobotics	15	
1.B	201500050	Aeronautical Engineering: Aircraft Engineering	15	
2.A	201400311	Introduction Finite Elements - PB	3.5	premaster course; part of module 11 WB
	201500391	Fluid Mechanics 1 - PB	3.5	premaster course; part of module 7 WB
	201500390	Heat Transfer - PB	3.5	premaster course; part of module 7 WB
	1 of the following 2			
	201500395	Introduction Mechanical Engineering	5	premaster course; can also be done in master
	201400649	Preparation Bachelor Assignment AT	4	year course
	201700099	Bachelor Assignment	4	Module AT12
2.B	201700099	Bachelor Assignment	11	Module AT12
		Stiffness and Strength*	3.5	premaster course; part of module 4 WB
	201500496	Dynamics 2 - PB	4.5	premaster course; part of module 8 WB

minor

HM

HM

* module Aeronautical Engineering gives exemption for Stiffness and Strength

Option 2

Block	code	name	EC	Remarks
1.A		Free choice		
1.B	201700076	Systems and Control - AT	15	Module AT6c
2.A	201400311	Introduction Finite Elements - PB	3.5	premaster course; part of module 11 WB
	201500391	Fluid Mechanics 1 - PB	3.5	premaster course; part of module 7 WB
	201500390	Heat Transfer - PB	3.5	premaster course; part of module 7 WB
	Optional courses			
	201500395	Introduction Mechanical Engineering	5	premaster course; can also be done in master
	201400649	Preparation Bachelor Assignment AT	4	year course
	201700099	Bachelor Assignment	4.5	Module AT12
2.B	201700099	Bachelor Assignment	7	Module AT12
	unknown	Stiffness and Strength	3.5	premaster course; part of module 4 WB
	201500496	Dynamics 2 - PB	4.5	premaster course; part of module 8 WB
3.A	201700099	Bachelor Assignment	3.5	part of bachelor assignment in vacation period

minor

JM/HM

JM

* There are other options available. For instance,

- ST module 6 in block 1B can be used to replace Fluid Mechanics and Heat Transfer in block 2A.

- taking Aircraft Engineering in block 1B gives exemption for Stiffness and Strength in block 2B.

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Nano Technology

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/nt/>

Contact person [A.S. Elbersen - Grote](#)

Procedure for admission

Please contact Ms. A.S. Elbersen for an introductory meeting before the start of the master's (around the end of your third year).

Track: -

Block	code	name	EC	Remarks	minor
B2 1.B	201800129	Materials Science and Engineering	15	Module AT6a	
B3 1.A	201800130	Condensed Matter Physics (for AT)	15	Module AT9	IM
B3 1.B	201500054	Lab on a Chip	15	optional	IM
B3 2.A	201700098	Micro System Design & Realization	15	optional (Module AT M11)	
B3 2.B	201700099	Bachelor Assignment	15		

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Systems and Control (3TU)

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/sc/>Contact person [Dr. M.J. Korsten](#)**Track: Robotics and Mechatronics**

Block	code	name	EC	Remarks	minor
1.A		Free choice	15		JM/HM
1.B	201700076	Systems and Control - AT	15	Module AT6c	IM
2.A	201500391	Fluid Mechanics 1 - PB	3.5	premaster course; part of module WB7	
	201500390	Heat Transfer - PB	3.5	premaster course; part of module WB7	
	From the following: 1 of 2				
	201500395	Introduction Mechanical Engineering	5	premaster course	
	201400649	Preparation BSc AT	4	year course	
	201700099	Bachelor Assignment	4		
2.B	201700099	Bachelor Assignment	11		
	201500496	Dynamics 2	4.5	premaster course; part of module WB8	

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module

Master: Spatial Engineering

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/education/master/programmes/spatial-engineering/>

Contact person [Drs. T.R. Luiten MBA](#)

Procedure for admission

Since there is no fixed programme that determines your admission to the programme, you can contact Ms. T.R. Luiten if you are interested in the Spatial Engineering master's programme.

To allow students to meet the final qualifications of the Spatial Engineering programme it is necessary that incoming students have knowledge at bachelors level of a research university in at least three of the following topics:

- Water, weather and climate (hydrology, meteorology)
- Earth sciences (geo-engineering, geology, earth surface processes)
- Civil engineering (infrastructure, building, hydraulics, hard interventions)
- Spatial planning and governance (urban and or rural environments)
- Spatial information and visualization (GIS, Remote Sensing)
- Software engineering

Master: Sustainable Energy Technology

Admission requirements 2018/2019

Webpage <https://www.utwente.nl/en/set/>Contact person [K.G.M. Braakhuis](#)**Procedure for admission**

There is no specific procedure for admission. You can just enrol for the master's programme.

Track: -**There is not a strict set of modules or courses required to be admissible for the SET master's programme.****This overview contains modules and courses that can be taken as a good preparation for the SET master's programme.**

Block	code	name	EC	Remarks	minor
1.A	201500061	BioRobotics	15	TNW-HM-BROB-15	HM
	201500003	From Science to Society: From Idea to Prototype	15	CTW-HM-STS1-15: Energy theme HM	HM
	201600007	Innovations in Sustainable Chain Management: Analysis	15	TNW-HM-ISCA-16	HM
1.B	201500050	Aircraft Engineering	15	CTW-HM-AIRE-15	HM
	201600136	Smart ways to make SMART cities SMARTER	15	CTW-HM-SMAR-1	HM
	201500064	Materials for the design of the future	15	TNW-HM-MADF-15	HM
	201500004	From Science to Society: From Prototype to Society	15	TW-HM-STS2-15: Energy theme	HM
	201400162	Transport Phenomena	15	TNW-JM-TPV-15/Module ST6	JM
	201600008	Innovations in Sustainable Chain Management: Design	15	TNW-HM-ISCD-16: Energy track	HM
2.A	201500321	Fluid Mechanics and Heat Transfer	15	Module WB7 / overlap with Module ST6	
2.B	201700099	Bachelor Assignment	15	Module AT12	

IM: in-depth minor module

JM: Join-in Minor module

HM: High Tech/Human Touch Minor module