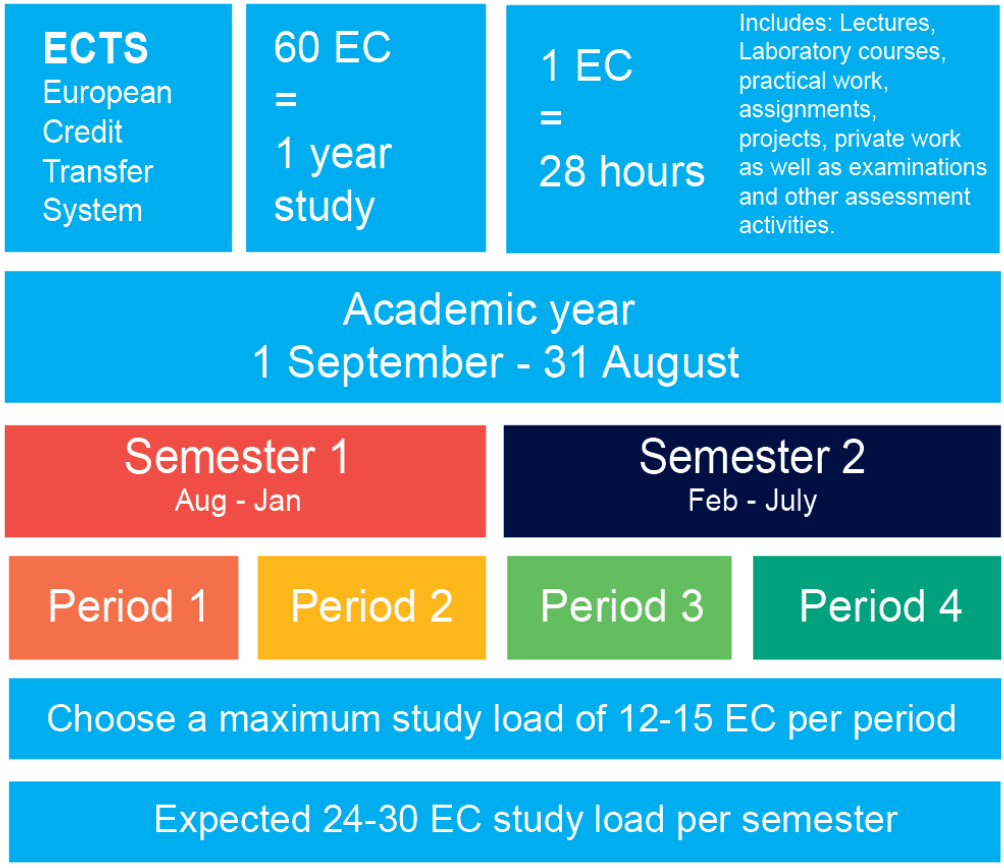
Academic Year 2024-2025

Electrical Engineering, Mathematics & Computer Science

Exchange courses

Course selection guidelines

The table below shows how the academic year is divided and what is expected of you from each semester and/or period. With the details below of how many EC you are expected to obtain, you will be able to make a study plan that will need to be approved by your home university and TU Delft.



Things to consider when you choose your courses

1. Will you be staying for 1 or 2 semesters? This will affect the number of EC you need to choose.
2. You must take a course load equal to 24-30 EC per semester, 12-15 EC per period.
3. More detailed information about the courses can be found via the study guide. Guidelines on how to use it can be found here.
4. Changes to your course plan after your arrival still need to meet the above requirements.
5. Carefully consider your course workload (minimum 24 EC), and the manageability of it. Students are not permitted to re-sit exams after the end of the official exchange period. Alternative course/s will need to be taken at your home university when you return.
6. We advise students to take most of the courses at the faculty of EEMCS as it increases the chance of getting accepted and reduces the chance of schedule clashes.
7. Maximum 30% of the credits can be taken at other faculties (except at the faculties of Industrial Design and Architecture and the Build environment). There are restrictions for courses from other faculties. Courses from the faculty of Aerospace are mostly not accepted. You can read more information on the website.
8. Always check the study guide well in advance for the prerequisites. Changes in courses always need to be requested before the period starts!

EEMCS

BSc courses

This document contains an overview of all English taught BSc courses at EEMCS available to exchange students. **BSc courses not listed on this list are not available!**
! It is your responsibility to check the pre required knowledge indicated in the Study Guide.

All students who come to TU Delft during their BSc programme or in the first 3 years of their academic career, can only follow BSc courses. You can either choose courses from the regular curriculum or follow a complete minor mentioned below. A minor is a well-rounded package of courses on one main topic. Individual courses from a minor cannot be followed separately unless they are mentioned in the normal subject list. Exchange students can only enrol for one of the minors below through the International Office of EEMCS.

BSc Minors

Only available in the Fall semester (period 1 and 2)
You can only follow the complete minor, courses of the minor are not available separately.

MSc courses

You can follow MSc courses if you are a MSc student or at least in the 6th or 7th semester of your undergraduate study. We do recommend that you are at least in the 7th semester. Check the restriction information below per MSc programme.

Content

Minor Electronics for Robotics

https://www.tudelft.nl/en/eemcs/study/minors/electronics-for-robotics/

Minor Finance

https://www.tudelft.nl/en/eemcs/study/minors/finance/

Minor Computational Science and Engineering

https://www.tudelft.nl/en/eemcs/study/minors/computational-science-and-engineering/

BSc Applied Mathematics

The BSc AM is in Dutch but courses on this list can be given in English

Course Code	Course Name	Cat.	EC	Period (Q)	Old Course Code
	Applied Mathematics: 1st year *				
TW1-13	Introduction to Programming	BSc	5	**1 (Fall)**	AM1090 (6EC)
TW1-23	Linear Algebra 1	BSc	5	**2 (Fall)**	AM1030 (6EC)
TW1-22	Analysis 1	BSc	5	**2 (Fall)**	AM1040 (6EC)
TW1-21	Modelling 1	BSc	5	**2 (Fall)**	AM1050-A (3EC)
TW1-32	Analysis 2	BSc	5	**3 (Spring)**	AM1070 (6EC)
TW1-41	Modelling 2	BSc	5	**4 (Spring)**	AM1050-B (3EC)
TW1-43	Introduction to Probability Theory	BSc	5	**4 (Spring)**	AM1080 (6EC)
	Applied Mathematics: 2nd year				
AM2010	Linear Algebra 2	BSc	6	**1 (Fall)**	
AM2080	Introduction to Statistics	BSc	6	**1 (Fall)**	
AM2020	Optimization	BSc	6	**2 (Fall)**	
AM2030	Ordinary Differential Equations	BSc	6	**2 (Fall)**	
AM2090	Real Analysis	BSc	6	**1 & 2 (Fall)**	
AM2520-P	Philosophy of Mathematics	BSc	6	**1 & 2 (Fall)**	
AM2050-A	Modelling 2A	BSc	3	**3 (Spring)**	
AM electives	https://studiegids.tudelft.nl/a101_displayProgram.do?program_tree_id=31302	BSc	6	**3 (Spring)**	
AM2040	Complex Function Theory	BSc	6	**4 (Spring)**	
AM2050-B	Modelling 2B	BSc	3	**4 (Spring)**	
AM2060	Numerical Methods 1	BSc	6	**3 & 4 (Spring)**	
AM2070	Partial Differential Equations	BSc	6	**3 & 4 (Spring)**	
	Applied Mathematics: 3rd year				
AM3500	Mathematics seminar	BSc	6	**1 & 2 (Fall)**	
AM3570	Fourier Analysis	BSc	6	**1 & 2 (Fall)**	
AM3590	Topology	BSc	6	**1 & 2 (Fall)**	
AM3510	Mathematical Physical Models	BSc	6	**1 & 2 (Fall)**	
AM3530	Numerical Methods 2	BSc	6	**3 (Spring)**	
AM3540	Inverse Problems	BSc	6	**3 (Spring)**	
AM3550	Graph Theory	BSc	6	**3 (Spring)**	
AM3560	Advanced Probability	BSc	6	**3 (Spring)**	
AM3580	Differential Geometry	BSc	6	**3 (Spring)**	

BSc Computer Science

Only available to BSc Computer Science Students enrolled in Exchange Computer Science at our faculty

Course Code	Course Name	Cat.	EC	Period (Q)
	Computer science: 1st year			
CSE1100	Object Oriented Programming	BSc	5	1 (Fall)
CSE1300	Reasoning & Logic	BSc	5	1 (Fall)
CSE1400	Computer Organisation	BSc	5	1 (Fall)
CSE1200*	Calculus	BSc	5	2 (Fall)
CSE1500	Web and Database Technology	BSc	5	2 (Fall)
CSE1205*	Linear Algebra	BSc	5	3 (Spring)
CSE1305	Algorithm and Data Structures	BSc	5	3 (Spring)
CSE1505	Information Data Management (pre requisite Web and Database Technology)	BSc	5	3 (Spring)
CSE1110	Software Quality & Testing	BSc	5	4 (Spring)
CSE1210*	Probability Theory and Statistics	BSc	5	4 (Spring)
CSE1405	Computer Networks	BSc	5	4 (Spring)
	Computer science: 2nd year			
CSE2115	Software Engineering Methods	BSc	5	1 (Fall)
CSE2220**	Signal Processing	BSc	5	1 (Fall)
CSE2420	Digital Systems (limited capacity)	BSc	5	1 (Fall)
CSE2510	Machine Learning	BSc	5	1 (Fall)
CSE2520	Big Data Processing	BSc	5	1 (Fall)
CSE2215	Computer Graphics	BSc	5	2 (Fall)
CSE2225**	Image Processing	BSc	5	2 (Fall)
CSE2310	Algorithm Design	BSc	5	2 (Fall)
CSE2425	Embedded Software (limited capacity)	BSc	5	2 (Fall)
CSE2525	Data Mining	BSc	5	2 (Fall)
CSE2120	Concepts of Programming Languages	BSc	5	3 (Spring)
CSE2230**	Multimedia Analysis	BSc	5	3 (Spring)
CSE2315	Automata, Languages and Computability	BSc	5	3 (Spring)
CSE2430	Operating systems (limited capacity)	BSc	5	3 (Spring)
CSE2530	Computational Intelligence	BSc	5	3 (Spring)
	Computer science: 3rd year			3 (Spring)
CSE3xxx	Electives of the third year, several. As they are subject to change, please check the available 5 EC courses in the study guide (link below). The research project is not available.	BSc	5	3 (Spring)
CSE3xxx	https://studiegids.tudelft.nl/a101_displayProgram.do?program_tree_id=31175			
	You need to register for the elective courses before the deadline!			

* Courses with * are basic mathematic courses

** Courses with ** are related to each other; knowledge of the first course is necessary to follow the second course and to follow the third you need to have pre requisites of the previous two courses.

BSc Electrical Engineering

Course Code	Course Name	Cat.	EC	Period (Q)	Old Course Code
	Electrical Engineering: 1st year				
EE1P1	Electricity & Magnetism	BSc	5	3 (Spring)	
EE1E1	Electrical Energy Fundamentals	BSc	5	4 (Spring)	
	Electrical Engineering: 2nd year				
EE2M1	Probability and Statistics	BSc	5	1 (Fall)	
EE2C1	Transistor Circuits	BSc	5	1 (Fall)	
EE2S1	Signals and Systems	BSc	5	1 (Fall)	EE2S11
EE2P1	Electromagnetics	BSc	5	2 (Fall)	EE3P11
EE2T1	Telecommunication and sensing	BSc	5	2 (Fall)	EE2T21
EE2S2	Systems and control	BSc	5	3 (Spring)	EE2S21
EE2P2	Semiconductor Physics and Devices	BSc	5	3 (Spring)	
EEX01	Introduction to Machine Learning	BSc	5	3 (Spring)	
EEX02	Communication Networks and Algorithms	BSc	5	3 (Spring)	
EEX03	Microwave Engineering	BSc	5	3 (Spring)	
EEX04	Technologies for Energy Transition	BSc	5	3 (Spring)	
EE2C2	Mixed-Signal Circuits and Systems	BSc	5	4 (Spring)	EE2C11
	Electrical Engineering: 3rd year				
EE3P11	Electromagnetics	BSc	5	3 (Spring)	
EE3D11	Computer architecture and organisation	BSc	5	3 (Spring)	
EE3C11	Electronics	BSc	5	3 (Spring)	

MSc Applied Mathematics (AM)

Course Code	Course Name	Cat	EC	Period (Q)
WI4019-SP	Nonlinear Differential Equations	MSc	6	1 & 2 (Fall)
WI4049TU	Introduction to High Performance Computing	MSc	6	1 & 2 (Fall)
WI4052	Risk Analysis	MSc	6	1 & 2 (Fall)
WI4156(TU)	Game theory	MSc	6	1 & 2 (Fall)
WI4201	Scientific Computing	MSc	6	1 & 2 (Fall)
WI4203	Applied Functional Analysis	MSc	6	1 & 2 (Fall)
WI4227-14	Discrete Optimisation	MSc	6	1 & 2 (Fall)
WI4430	Martingales, Brownian Motion	MSc	6	1 & 2 (Fall)
WI4455	Statistical Inference	MSc	6	1 & 2 (Fall)
WI4465	Advanced Topics in Probability	MSc	6	1 & 2 (Fall)
WI4515	Relaxations and heuristics	MSc	6	1 & 2 (Fall)
WI4635	Linear Algebra and Optimization for Machine Learning	MSc	6	1 & 2 (Fall)
WI4645	Introduction to Quantum Information and Computing	MSc	6	1 & 2 (Fall)
WI4655	Perturbation and Variational Methods for Partial Differential Equations	MSc	6	1 & 2 (Fall)
WI4670	Extremal Combinatorics	MSc	6	1 & 2 (Fall)
WI4675	Introduction to Financial Mathematics	MSc	6	1 & 2 (Fall)
WI4771TU	Object Oriented Scientific Programming with C++	MSc	3	2 (Fall)
WI4260TU	Scientific Programming for Engineers	MSc	3	3 (Spring)
WI4006	Special Functions and Representation Theory	MSc	6	3 & 4 (Spring)
WI4011-17	Computational Fluid Dynamics	MSc	6	3 & 4 (Spring)
WI4050	Uncertainty and Sensitivity Analysis	MSc	6	3 & 4 (Spring)
WI4079	Financial Mathematics	MSc	6	3 & 4 (Spring)
WI4138	Decision Theory/Expert Judgment	MSc	6	3 & 4 (Spring)
WI4154	Computational Finance	MSc	6	3 & 4 (Spring)
WI4204	Advanced Modelling	MSc	6	3 & 4 (Spring)
WI4205	Applied Finite Elements	MSc	6	3 & 4 (Spring)
WI4212	Advanced Numerical Methods	MSc	6	3 & 4 (Spring)
WI4221	Control of Discrete-Time Stochastic Systems	MSc	6	3 & 4 (Spring)
WI4224	Special Topics in Financial Engineering	MSc	6	3 & 4 (Spring)
WI4230	Time series and Extreme Value Theory	MSc	6	3 & 4 (Spring)
WI4410	Advanced Discrete Optimization	MSc	6	3 & 4 (Spring)
WI4425	Financial Markets Theory	MSc	6	3 & 4 (Spring)
WI4450	Special Topics in Computational Science and Engineering	MSc	6	3 & 4 (Spring)
WI4475	Data Assimilation	MSc	6	3 & 4 (Spring)
WI4485	Harmonic Analysis	MSc	6	3 & 4 (Spring)
WI4614	Stochastic Simulation	MSc	6	3 & 4 (Spring)
WI4620	Semidefinite Optimization	MSc	6	3 & 4 (Spring)
WI4630	Statistical Learning	MSc	6	3 & 4 (Spring)
WI4640	High Dimensional Probability	MSc	6	3 & 4 (Spring)

WI4650	Applied Quantum Algorithms	MSc	6	**3 & 4 (Spring)**
WI4660	Dynamical Systems and Chaos	MSc	6	**3 & 4 (Spring)**
WI4665	Advanced Topics in Statistics	MSc	6	**3 & 4 (Spring)**
WI4680	Applications in Partial Differential Equations	MSc	6	**3 & 4 (Spring)**
WI4211	Advanced Topic in Analysis	MSc	6	**4 (Spring)**
WI4505	Quantitative Risk Management	MSc	6	**4 (Spring)**
WI4046	Spectral Theory of Linear Operators	MSc	6	**3 & 4 (Spring)**
WI4520	Nonlinear Analysis and Partial Differential Equations	MSc	6	**3 & 4 (Spring)**
WI4615	Stochastic Calculus	MSc	6	**3 & 4 (Spring)**

Courses which are not available to exchange students

WI4207	Continuous Optimization	Not available for exchange students, classes are outside of Delft
WI4209	Systems and Control	Not available for exchange students, classes are outside of Delft

MSc Computer Science

Only available to MSc CS exchange students enrolled to our faculty

Course Code	Course Name	Cat	EC	Period (Q)
CS4410	Category Theory for Programmers	MSc	5	1 (Fall)
CS4505	Software Architecture	MSc	5	1 (Fall)
CS4510	Formal Reasoning about Software	MSc	5	1 (Fall)
CS4515	3D Computer Graphics and Animation	MSc	5	1 (Fall)
IFEEMCS 4070	Multivariate Data Analysis	MSc	5	1 (Fall)
IN4310	Seminar Computer Graphics	MSc	5	1 (Fall)
CS4145	Crowd Computing	MSc	5	2 (Fall)
CS4150	Systems Security	MSc	5	2 (Fall)
CS4520	Security and Cryptography	MSc	5	2 (Fall)
CS4525	Web-Scale Data Management	MSc	5	2 (Fall)
CS4530	Modelling and Problem Solving	MSc	5	2 (Fall)
CS4545	Distributed Algorithms	MSc	5	2 (Fall)
CS4555	Compiler Construction	MSc	5	2 (Fall)
CS4570	Machine Learning for Software Engineering	MSc	5	2 (Fall)
IN4302TU	Building Serious Games	MSc	5	2 (Fall)
IN4341	Performance Analysis	MSc	5	2 (Fall)
CS4090	Quantum Communication and Cryptography	MSc	5	3 (Spring)
CS4195	Modeling and Data Analysis in Complex Networks	MSc	5	3 (Spring)
CS4225	Educational Technologies	MSc	5	3 (Spring)
CS4235	Socio-Cognitive Engineering	MSc	5	3 (Spring)
CS4345	Seminar Formal Methods for Learned Systems	MSc	5	3 (Spring)
CS4380	Privacy Enhancing Technologies	MSc	5	3 (Spring)
CS4535	Constraint Solving	MSc	5	3 (Spring)
CS4560	Parallel and Concurrent Programming	MSc	5	3 (Spring)
CS4575	Sustainable Software Engineering	MSc	5	3 (Spring)
CS4160	Blockchain Engineering	MSc	5	4 (Spring)
CS4205	Evolutionary Algorithms	MSc	5	4 (Spring)
CS4295	Release Engineering for Machine Learning Applications	MSc	5	4 (Spring)
CS4350	Machine Learning for Graph Data	MSc	5	4 (Spring)
CS4430	Network Security	MSc	5	4 (Spring)
CS4540	Geometric Data Processing	MSc	5	4 (Spring)
CS4565	Advanced Functional Programming	MSc	5	4 (Spring)
CS4580	Automated Software Testing and Reverse Engineering	MSc	5	4 (Spring)
CS4710	Research in Cyber Security – Hacking Lab	MSc	5	4 (Spring)
CS4715	Programming Languages Research Seminar	MSc	5	4 (Spring)
CS4725	Research Seminar on Scalable Learning Systems	MSc	5	4 (Spring)

Courses which are not available to exchange students

CS4700	Literature Survey	Not available for exchange students
CS4720	Research in Program Analysis	Not available for exchange students
Courses with a DSAIT course code		Not available for exchange students

MSc Computer and Embedded Systems Engineering (CESE)

Course Code	Course Name	Cat	EC	Period (Q)
CESE4000	Software Fundamentals	MSc	5	1 (Fall)
CESE4005	Hardware Fundamentals	MSc	5	1 (Fall)
CESE4010	Advanced Computing Systems	MSc	5	1 (Fall)
CESE4055	Ad hoc and Sensor Networks	MSc	5	1 (Fall)
CESE4075	Supercomputing for Big Data	MSc	5	1 (Fall)
CESE4130	Computer Engineering	MSc	5	1 (Fall)
CESE4015	Software Systems	MSc	5	2 (Fall)
CESE4025	Real-time Systems	MSc	5	2 (Fall)
CESE4045	High-performance data networking	MSc	5	2 (Fall)
CESE4090	Reconfigurable Computing Design	MSc	5	2 (Fall)
CESE4050	Measuring and Simulating the Internet	MSc	5	3 (Spring)
CESE4060	Wireless IoT and Local Area Networks	MSc	5	3 (Spring)
CESE4085	Modern Computer Architectures	MSc	5	3 (Spring)
CESE4020	Effective and Responsible Engineering	MSc	5	4 (Spring)
CESE4120	Smart Phone Sensing	MSc	5	4 (Spring)
CESE4065	Advanced Practical I.o.T. and Seminar		5	1 (Fall) & 4 (Spring)

Courses which are not available to exchange students

CESE4030	Embedded Systems Laboratory	Not available for exchange students
CESE4035	Computer Arithmetic	Not available for exchange students
CESE4040	Processor Design Project	Not available for exchange students
CESE4050	Measuring and Simulating the Internet	No longer given in 2024-2025
CESE4115	Embedded Computer Architecture 2	Course given in Twente not available for exchange students
Courses with a DSAIT course code		Not available for exchange students
Course with a CS course code		Only available for CS exchange students

MSc Electrical Engineering (EE)

Course Code	Course Name	Cat	EC	Period (Q)
EE4670	PV materials processing & characterization	MSc	4	1 (Fall)
EE4680	Photovoltaic Modelling	MSc	4	1 (Fall)
EE4700	Modeling, Algorithms and Data Structures	MSc	5	1 (Fall)
EE4750	Tensor Networks for Green AI and Signal Processing	MSc	4	1 (Fall)
EE4C03	Statistical Digital Signal Processing and Modeling	MSc	5	1 (Fall)
EE4C04	Control System Design	MSc	5	1 (Fall)
EE4C05	Electromagnetics	MSc	5	1 (Fall)
EE4C06	Networking	MSc	5	1 (Fall)
EE4C08	Measurement and Instrumentation	MSc	5	1 (Fall)
EE4C10	Analog Circuit Design Fundamentals	MSc	5	1 (Fall)
EE4C11	Systems Engineering	MSc	5	1 (Fall)
EE4C12	Machine Learning for Electrical Engineering Applications	MSc	5	1 (Fall)
EE4C13	Wireless Systems for Electrical Engineering Applications	MSc	5	1 (Fall)
ET4175	Radar II: Theory and System Design	MSc	4	1 (Fall)
ET4379	Photovoltaic Lab Course	MSc	4	1 (Fall)
EE4109	Structured Electronic Design	MSc	5	2 (Fall)
EE4510	Advanced Electromagnetics	MSc	5	2 (Fall)
EE4520	Analog CMOS design I	MSc	3	2 (Fall)
EE4530	Applied Convex Optimization	MSc	5	2 (Fall)
EE4565	Propagation and Scattering of EM waves	MSc	5	2 (Fall)
EE4585	Semiconductor Device Physics	MSc	5	2 (Fall)
EE4605	Integrated Circuits for RF/Wireless Applications	MSc	5	2 (Fall)
EE4610	Digital IC Design I	MSc	3	2 (Fall)
ET4103	High Voltage Technology	MSc	4	2 (Fall)
ET4107	Power Systems Analysis II	MSc	4	2 (Fall)
ET4117	Electrical Machines and Drives	MSc	4	2 (Fall)
ET4119	Electronic Power Conversion	MSc	4	2 (Fall)
ET4257	Sensors and Actuators	MSc	4	2 (Fall)
ET4376	Photovoltaic Basics	MSc	4	2 (Fall)
ET4386	Estimation and Detection	MSc	5	2 (Fall)
EE4016	Antenna Systems	MSc	5	3 (Spring)
EE4375	Finite Element Modeling for Electrical Energy Applications	MSc	4	3 (Spring)
EE4625	High Voltage Cable System	MSc	3	3 (Spring)
EE4630	Telecommunication Network Architectures	MSc	3	3 (Spring)
EE4665	Uncertainty modelling and risk assessment in electrical power systems	MSc	4	3 (Spring)
EE4685	Machine Learning, a Bayesian Perspective	MSc	5	3 (Spring)
EE4695	Hardware Dependability	MSc	5	3 (Spring)
EE4705	Solid State Physics	MSc	3	3 (Spring)
EE4710	Solid State Physics with Quantum and Nano Electronics	MSc	5	3 (Spring)
EE4725	Quasi Optical Systems	MSc	5	3 (Spring)
EE4740	Data Compression: Entropy and Sparsity	MSc	5	3 (Spring)
EE4760	Probablistic Sensor Fusion	MSc	3	3 (Spring)
EE5020	Sensor Signal and Data Processing	MSc	4	3 (Spring)

ET4108	Transients in Power Systems	MSc	4	3 (Spring)
ET4116	Power Electronics	MSc	4	3 (Spring)
ET4121	A.C. Machines	MSc	4	3 (Spring)
ET4127	Themes in Biomedical Electronics	MSc	4	3 (Spring)
ET4130	Bioelectricity	MSc	3	3 (Spring)
ET4169	Radar I: From Basic Principles to Applications	MSc	5	3 (Spring)
ET4252	Analog Integrated Circuit Design	MSc	4	3 (Spring)
ET4277	Microelectronics Reliability	MSc	4	3 (Spring)
ET4289	Integrated Circuits and MEMS Technology	MSc	4	3 (Spring)
ET4351	Digital VLSI Systems on Chip	MSc	4	3 (Spring)
ET4358	Fundamentals of Wireless Communications	MSc	5	3 (Spring)
ET4369	Nyquist-Rate Data Converters	MSc	4	3 (Spring)
ET4371	Mixed-mode Wireless transceivers	MSc	4	3 (Spring)
ET4377	Photovoltaic Technologies	MSc	4	3 (Spring)
ET4382	Power conversion techniques in CMOS technology	MSc	3	3 (Spring)
ET4391	Advanced Microelectronics packaging	MSc	3	3 (Spring)
ET8011MSC	Structured Electronic Design Laboratory	MSc	3	3 (Spring)
EE4111	High-Voltage DC	MSc	4	4 (Spring)
EE4114	Power System Protection and Grounding	MSc	4	4 (Spring)
EE4396	Mobile Networks	MSc	5	4 (Spring)
EE4410	Cyber Security of Power Grids	MSc	4	4 (Spring)
EE4515	Advanced Power Electronics	MSc	4	4 (Spring)
EE4525	Analog CMOS design II	MSc	3	4 (Spring)
EE4536	DC and AC Microgrids	MSc	4	4 (Spring)
EE4540	Distributed Signal Processing	MSc	5	4 (Spring)
EE4545	Electrical Power Systems of the Future	MSc	4	4 (Spring)
EE4555	Active Implantable Biomedical Microsystems	MSc	5	4 (Spring)
EE4595	An Introduction to Wavefield and Magnetic Resonance Imaging	MSc	5	4 (Spring)
EE4615	Digital IC Design II	MSc	3	4 (Spring)
EE4620	Spectral Domain Methods in Electromagnetics	MSc	4	4 (Spring)
EE4675	Object classification with radar	MSc	4	4 (Spring)
EE4690	Hardware Architectures for Artificial Intelligence	MSc	5	4 (Spring)
EE4715	Array processing	MSc	5	4 (Spring)
EE4730	High Frequency Wireless Architectures	MSc	3	4 (Spring)
EE4736	Introduction Imaging Sensors	MSc	4	4 (Spring)
EE4745	Superconducting Astronomical Instrumentation	MSc	5	4 (Spring)
ET4030	Error Correcting Codes	MSc	4	4 (Spring)
ET4034	Telecom Business Architectures and Models	MSc	4	4 (Spring)
ET4113	Power System Dynamics	MSc	4	4 (Spring)
ET4173	Introduction to UWB technology, systems and applications	MSc	4	4 (Spring)
ET4260	Microsystems design and modelling	MSc	4	4 (Spring)
ET4278	Over-Sampled Data Converters	MSc	4	4 (Spring)
ET4291	Control of Electrical Drives	MSc	5	4 (Spring)
ET4362	High Speed Digital Design for Embedded Systems	MSc	5	4 (Spring)
ET4378	Photovoltaic Systems	MSc	4	4 (Spring)
EE4C01	Profile Orientation and Academic Skills	MSc	3	2 (Fall) & 3 (Spring)
EE4755	Reliable Power Electronic Components and Systems	MSc	5	3 & 4 (Spring)
ET8020	High Voltage Testing and Diagnostics	MSc	4	3 & 4 (Spring)

Courses with different course codes

Courses with a course code which does not start with EE or ET might be available for exchange students. Please check the study guide for restrictions and prerequisite knowledge.

MSc Sustainable Energy Technology (SET)

Course Code	Course Name	Cat	EC	Period (Q)
SET3014	Renewable Energy	MSc	5	1 (Fall)
SET3055	Economics and Regulation of Sustainable Energy Systems	MSc	4	1 (Fall)
SET3061	Energy System Modelling	MSc	4	1 (Fall)
SET3090	Fossil-Free Fuel and Feedstock	MSc	4	1 (Fall)
SET3815-M	Matlab Fundamentals	MSc	2	1 (Fall)
SET3070	Thermochemistry of Biomass Conversion	MSc	4	2 (Fall)
SET3080	The Necessity of Storage Technology	MSc	4	2 (Fall)
SET3095	Electronic Power Conversion	MSc	4	2 (Fall)
SET3125	Machine Learning Workflows for Digital Energy Systems	MSc	4	2 (Fall)
SET3205	Heat Storage	MSc	4	2 (Fall)
SET3215	Heating and Cooling Sources	MSc	4	2 (Fall)
SET3065	Intelligent Electrical Power Grids	MSc	4	3 (Spring)
SET3100	Electric Vehicle & Charging Technology	MSc	4	3 (Spring)
SET3110	Energy Storage in Batteries	MSc	4	3 (Spring)
SET3120	Energy Systems Simulation and Digital Twins	MSc	4	3 (Spring)
SET3135	Fuel Cell Systems	MSc	4	3 (Spring)
SET3200	Heating and Cooling Technologies from Near-Ambient Temperature Sources	MSc	4	3 (Spring)
ET4291SET	Digital modelling of electric powertrain	MSc	4	4 (Spring)
SET3085	Hydrogen Technology	MSc	4	4 (Spring)
SET3210	Heating and Cooling Grids	MSc	4	4 (Spring)
SET3220	Heat Distribution in Buildings	MSc	4	4 (Spring)
SET3995	Direct Use of Geothermal Energy	MSc	4	4 (Spring)

Courses with different course codes

Courses with a course code which does not start with SET might be available for exchange students. Please check the study guide for restrictions and prerequisite knowledge.