

**CORE SKILLS
MODULES**

Discrete courses*

*courses will be opened only if a sufficient number of students register for them.

Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
S265D001	Science Communication for the Public	1	autumn
S274D103	Research Ethics	1	autumn
S274D102	Design Thinking in Research	2	autumn

Spring

Course code	Course title	ECTS Credits	Semester
H352D001	Academic and Technical Research Writing	1	spring
S265D001	Science Communication for the Public	1	spring
S274D104	Research Data Management	1	spring
S274D103	Research Ethics	1	spring
S211D010	Systematic Literature Review	1	spring
S281D001	Digital Support and Tools for Research Writing and Publication	1	spring
S189D101	Research Project Grant Management	2	spring

INSTITUTE OF ENVIRONMENTAL ENGINEERING

Discrete courses*

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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
T270D113	Life Cycle Assessment	6	autumn
T270D108	Sustainable Development of Cities	6	autumn

Spring

Course code	Course title	ECTS Credits	Semester
T270D113	Life Cycle Assessment	6	spring
T270D108	Sustainable Development of Cities	6	spring

**FACULTY OF
 CHEMICAL
 TECHNOLOGY**
Discrete courses*

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Doctoral studies courses
Autumn

Course code	Course title	ECTS Credits	Semester
P360D010	Advanced Inorganic Chemistry	9	autumn
P390D010	Advanced Organic Chemistry	9	autumn
P390D334	Methods of Modern Spectral Analysis	9	autumn
P360D100	Chemistry of Chalcogens	9	autumn
P390D332	Chemistry of Nitrogen Containing Heterocyclic Compounds	6	autumn
P390D331	Color Chemistry	9	autumn
T430D183	Advanced Food Chemistry and Biochemistry	9	autumn
T390D249	Advanced Polymer Chemistry and Technology	9	autumn
T350D732	Chemical Engineering	9	autumn
T270D836	Modern Environmental Protection Technologies	6	autumn

Spring

Course code	Course title	ECTS Credits	Semester
P390D334	Methods of Modern Spectral Analysis	9	spring
P390D010	Advanced Organic Chemistry	9	spring
P370D247	Basic Theory of Polymer Chemistry and Physics	9	spring
P390D332	Chemistry of Nitrogen Containing Heterocyclic Compounds	6	spring
P390D331	Color Chemistry	9	spring
P400D001	Modern Chromatographic Methods	6	spring
T350D610	Advanced Inorganic Chemistry and Technology	9	spring
T430D183	Advanced Food Chemistry and Biochemistry	9	spring
T390D249	Advanced Polymer Chemistry and Technology	9	spring
T270D101	Advanced Solid Waste Treatment Technologies	9	spring
T270D835	Advanced Water Treatment Technologies	6	spring
T430D184	Structure of Food Products and Their Functional Properties	9	spring
T390D249	Advanced Polymer Chemistry and Technology	9	spring

FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE	<p>Discrete courses* *courses will be opened only if a sufficient number of students register for them.</p>
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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
T230D438	Research Methods of Building Materials and Structure	9	autumn
T230D111	Sustainability Assessment of Buildings and Construction	3	autumn
T230D105	Structure and properties of concrete	9	autumn

Spring

Course code	Course title	ECTS Credits	Semester
T230D438	Research Methods of Building Materials and Structure	9	spring
T230D111	Sustainability Assessment of Buildings and Construction	3	spring
T230D105	Structure and properties of concrete	9	spring

**FACULTY OF
ELECTRICAL
AND
ELECTRONICS
ENGINEERING**

Discrete courses*

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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
T110D811	Electrical Measurement Techniques of Non-Electrical Quantities	9	autumn
T110D010	Ultrasonic Measurements	6	autumn
T110D801	Metrology and measurement methodology	9	autumn

Spring

Course code	Course title	ECTS Credits	Semester
P176D162	Neural Networks and Neurocomputing	6	spring
T121D010	Digital Signal Processing Methods and Applications	6	spring
T110D100	Nondestructive Testing Techniques	6	spring

**FACULTY OF
INFORMATICS**

Discrete courses*

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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
P170D101	Mathematical Models in Informatics	9	autumn
T210D439	Numerical Methods in Engineering	9	autumn
T120D102	Scientific Visualisation	3	autumn

Spring

Course code	Course title	ECTS Credits	Semester
P170D100	Heuristic Algorithms	3	spring
T120D101	Deep Learning Engineering	6	spring

**FACULTY OF
MECHANICAL
ENGINEERING
AND DESIGN**

Discrete courses*

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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
T140D175	Simulation of Accidental Thermal-Hydraulic Processes	9	autumn

Spring

Course code	Course title	ECTS Credits	Semester
T140D175	Simulation of Accidental Thermal-Hydraulic Processes	9	spring
T210D106	Design and Analysis of Microsystems	9	spring

**INSTITUTE OF
MECHATRONICS**

Discrete courses*

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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
T210D004	Vibrations and Dynamic of Mechanical Systems	9	autumn

**FACULTY OF
SOCIAL
SCIENCES,
ARTS AND
HUMANITIES**

Discrete courses*

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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
H320D100	Empyrical Musicology	8	autumn

Spring

Course code	Course title	ECTS Credits	Semester
H320D100	Empyrical Musicology	6	spring

**SCHOOL OF
 ECONOMICS
 AND BUSINESS**

Discrete courses*

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Doctoral studies courses

Autumn

Course code	Course title	ECTS Credits	Semester
T180D001	Inovations and Global Knowledge Economy	6	autumn

Spring

Course code	Course title	ECTS Credits	Semester
S189D001	Contemporary Management Theories and Concepts	9	spring
S189D010	Designing a PhD Research Project	9	spring
S180D100	Topics of Econometrics	6	spring