Courses for exchange students- Faculty of Information Technology and Electrical Engineering 2022-2023

SHOW STRUCTURE

SHOW DESCRIPTION

SHOW TIMING AS ACADEMIC YEARS

COURSES IN ENGLISH FOR EXCHANGE STUDENTS

Courses for exchange students- Faculty of	ECTS	1.ay
Basic Studies	65	
Basic Studies: Computer Science and Engineering	10	
Principles of Digital Fabrication (in English)	5	~
Elementary Programming	5	~
Basic Studies: Engineering Mathematics	30	
Calculus I (in English)	5	~
Matrix Algebra (in English)	5	~
Calculus II (in English)	5	~
Probability and Mathematical Statistics (in English)	5	~
<u>Differential Equations</u> (in English)	5	~
Complex analysis (in English)	5	✓

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Basic Studies: Electronics and Communications Engineering	5	
Introduction to Electronics (in English)	5	~
Basic Studies: Information Processing Science	20	
<u>Devices and Data Networks</u> (in English)	5	~
<u>Technology Innovation and Business</u>	5	~
Introduction to Software Engineering (in English)	5	~
Fundamentals to Information Systems (in English)	5	~
Intermediate Studies	225	
Intermediate Studies: Engineering Mathematics	10	
<u>Signal Analysis</u> (in English)	5	~
Introduction to Optimization (in English)	5	~
Intermediate Studies: Computer Science and Engineering	56	
Artificial Intelligence (in English)	5	~
<u>Computer Systems</u>	8	~
<u>Digital Filters</u>	5	~
<u>Digital Image Processing (in English)</u>	5	~
Embedded Software Project (in English)	8	~

Human-Computer Interaction (in English)	5	✓ ·
Introduction to Social Network Analysis (in English)	5	~
Introduction to XR Systems (in English)	5	~
Mobile Computing (in English)	5	~
Social Computing (in English)	5	~
Intermediate Studies: Electronics and Communications Engineering	64	
Electrical Measurement Principles	5	~
Introduction to Internet (in English)	5	~
<u>Telecommunication Engineering</u>	5	~
<u>Digital Techniques 2</u>	5	~
Bachelor's Thesis / Electronics and Communications Engineering (in English)	8	~
Maturity Test for Bachelor 's Degree in Electronics and Communications Engineering	0	~
Seminar for Bachelor`s Degree, Electronics and Communications Engineering	0	~
Simulations and Tools for Telecommunications (in English)	5	~
Electronics Materials (in English)	5	~
Electronic Measurement Techniques (in English)	5	~

Electronic System Design (in English)	5	✓ ·
Practical Training (in English)	3	~
Introduction to Biomedical Engineering (in English)	5	~
Advanced Practical Training (in English)	3	~
<u>Laboratory Works of Electronic Measurement Techniques</u> (in English)	5	~
Intermediate Studies: Information Processing Science	95	
Requirements Engineering (in English)	5	~
Software Modeling and Design (in English)	5	~
Software Quality and Testing (in English)	5	~
Data Modeling and Design (in English)	5	~
Software Architectures (in English)	5	~
Programming 2 (in English)	5	~
<u>Databases</u> (in English)	5	~
Data Structures and Algorithms (in English)	5	~
Programming 3 (in English)	5	~
Programming 4 (in English)	5	~
Information Systems Modelling, Design and Development (in English)	5	~

Business Process Management and Modelling (in English)	5	~
Data Analytics and Business Intelligence (in English)	5	~
Basics of Project Work (in English)	5	~
Software Development, Maintenance and Operations (in English)	5	~
Professional Software Engineering Processes and Human Factors (in English)	5	~
<u>Digitalisation and Innovation</u> (in English)	5	~
Servitisation, Co-Creation and Business Development (in English)	5	~
User Experience (UX) Design and Management (in English)	5	~
Advanced Studies	457- 471	
Advanced Studies: Engineering Mathematics	5	
Numerical Matrix Analysis (in English)	5	~
Advanced Studies: Computer Science and Engineering	182	
Affective Computing (in English)	5	~
Application Specific Signal Processors (in English)	5	~
Application Specific Signal Processors (in English) Applied Computing Project II (in English)	10	✓ ✓

Biomedical Engineering Project (in English)	5	✓
Biosignal Processing I (in English)	5	~
Biosignal Processing II (in English)	5	~
Computer Graphics (in English)	5	~
Computer Security (in English)	5	~
<u>Deep Learning</u> (in English)	5	~
<u>Distributed Systems</u>	5	~
Embedded System Project (in English)	5	~
Fundamentals of Sensing, Tracking and Autonomy 1 (in English)	5	~
Internet of Things (in English)	5	~
Machine Learning (in English)	5	~
Machine Vision (in English)	5	~
Multi-Modal Data Fusion (in English)	5	~
<u>Multiprocessor Programming</u>	5	~
Natural Language Processing and Text Mining (in English)	5	~
Programmable Web Project (in English)	5	~
Signal Processing Systems (in English)	5	~
Software Project (in English)	7	~

Towards Data Mining (in English)	5	~
VR Systems and Humans (in English)	5	~
Special Course in Information Technology 1 - An introduction to computer vision methods for biomedical images (only for BME students) (in English)	5	~
Special Course in Information Technology 2 - Function and Analysis of Cardiovascular System (only for BME-SIP students) (in English)	5	~
Special Course in Information Technology 3 - Data Mining Project (in English)	5	~
Special Course in Information Technology 4 - International Crisis Management (CriM) (in English)	5	✓
Special Course in Information Technology 5 - Computer Security Project (in English)	5	✓
<u>Special Course in Information Technology 6 - Cryptographic</u> <u>systems and their weaknesses</u> (in English)	5	~
Special Course in Information Technology 7 - Data-Driven Decision Making for Smart Citisen and Businesses (in English)	5	~
Special Course in Information Technology 8 - AI Ethics, Privacy and Legislation (in English)	5	~
Special Course in Information Technology 9 - Fundamentals of Sensing, Tracking, and Autonomy 2 (in English)	5	~
<u>Special Course in Information Technology 12 - Modern</u> <u>Cryptography</u> (in English)	5	~
	5	✓

Special Course in Information Technology 13 - Empirical Research in Computer Security (in English)		
Advanced Studies: Electronics and Communications Engineering	200- 214	
Electronics Design II (in English)	6	~
Radio Engineering 1 (in English)	5	~
Statistical Signal Processing 1 (in English)	5	~
Electronics Design III (in English)	6	~
RF Components and Measurements	5	~
Introduction to Nanotechnology (in English)	5	~
Electronic Sensors (in English)	5	~
Microelectronics Packaging Technologies (in English)	5	~
Microelectronics and Micromechanics (in English)	5	~
Printed Electronics	5	~
Microelectronics project (in English)	5	~
Communications Networks I (in English)	5	~
Statistical Signal Processing II (in English)	5	~
Wireless Communications II (in English)	5	~
Radio Channels (in English)	5	~
	6	~

Radio Engineering II (in English)		
Communications Networks II (in English)	7	~
Antennas (in English)	5	~
Telecommunication Engineering Project (in English)	5	~
Modern Topics in Telecommunications and Radio Engineering 1 - An Introduction to URLLC (in English)	3-7	~
Communications Signal Processing (in English)	5	~
Convex Optimization (in English)	7	~
Statistical Communication Theory (in English)	7	~
<u>Optoelectronics</u> (in English)	5	~
Measurement Systems (in English)	5	~
Wireless Measurements (in English)	5	~
Biophotonics and Biomedical Optics (in English)	5	~
Biomedical Instrumentation	5	~
<u>Testing Techniques of Electronics and Printed Electronics (in English)</u>	5	~
EMC Design	5	~
Optical Measurement Technology Exercise (in English)	5-10	~
Printed electronics design and construction exercise (in English)	5	~

Wireless Measurements Project (in English)	5-10	~
<u>Digital Techniques 3</u> (in English)	7	~
Physical Design of Digital Integrated Circuits (in English)	5	~
Electronics Design and Construction Exercise	6	~
Energy Harvesting Technologies (in English)	5	~
Wearable Sensors (in English)	5	~
Advanced Studies: Information Processing Science	70	
Research Methods (in English)	5	~
Advanced Software Quality and Security (in English)	5	~
Software Platforms and Ecosystems (in English)	5	~
Software-Defined Systems (in English)	5	~
Software for Intelligent Systems and Artificial Intelligence (AI) (in English)	5	~
Information Systems Strategy and Leadership (in English)	5	~
Societal and Individual Impacts of Information Systems (in English)	5	~
Creating Domain Value with Data (in English)	5	~
Software Engineering Research (in English)	5	~
	5	~

Next Generation Software Engineering (in English)		
Advanced Topics in Digital Cultures and Design (in English)	5	~
User Experience (UX) and Usability Evaluation (in English)	5	~
<u>Persuasive Systems Design (in English)</u>	5	~
ICT and Behaviour Change (in English)	5	~

Information Technology and Electrical Engineering 2022-2023

SHOW STRUCTURE

SHOW DESCRIPTION

SHOW TIMING AS ACADEMIC YEARS

COURSES IN ENGLISH FOR EXCHANGE STUDENTS

Basic Studies, 65 ECTS

Basic Studies: Computer Science and Engineering, 10 ECTS

Principles of Digital Fabrication, 5 ECTS, 1.ay (in English)

Elementary Programming, 5 ECTS, 1.ay

Basic Studies: Engineering Mathematics, 30 ECTS

Calculus I, 5 ECTS, 1.ay (in English)

Matrix Algebra, 5 ECTS, 1.ay (in English)

Calculus II, 5 ECTS, 1.ay (in English)

Probability and Mathematical Statistics, 5 ECTS, 1.ay (in English)

Differential Equations, 5 ECTS, 1.ay (in English)

Complex analysis, 5 ECTS, 1.ay (in English)

Basic Studies: Electronics and Communications Engineering, 5 ECTS

Introduction to Electronics, 5 ECTS, 1.ay (in English)

Basic Studies: Information Processing Science, 20 ECTS

Devices and Data Networks, 5 ECTS, 1.ay (in English)

Technology Innovation and Business, 5 ECTS, 1.ay

Introduction to Software Engineering, 5 ECTS, 1.ay (in English)

Fundamentals to Information Systems, 5 ECTS, 1.ay (in English)

Intermediate Studies, 225 ECTS

Intermediate Studies: Engineering Mathematics, 10 ECTS

Signal Analysis, 5 ECTS, 1.ay (in English)

Introduction to Optimization, 5 ECTS, 1.ay (in English)

Intermediate Studies: Computer Science and Engineering, 56 ECTS

Artificial Intelligence, 5 ECTS, 1.ay (in English)

Computer Systems, 8 ECTS, 1.ay

Digital	Filters.	5 ECTS,	1.av
Digital	<u> 1 11 (C1 O</u> ,	<u> </u>	1 .uy

Digital Image Processing, 5 ECTS, 1.ay (in English)

Embedded Software Project, 8 ECTS, 1.ay (in English)

Human-Computer Interaction, 5 ECTS, 1.ay (in English)

Introduction to Social Network Analysis, 5 ECTS, 1.ay (in English)

Introduction to XR Systems, 5 ECTS, 1.ay (in English)

Mobile Computing, 5 ECTS, 1.ay (in English)

Social Computing, 5 ECTS, 1.ay (in English)

Intermediate Studies: Electronics and Communications Engineering, 64 ECTS

Electrical Measurement Principles, 5 ECTS, 1.ay

Introduction to Internet, 5 ECTS, 1.ay (in English)

Telecommunication Engineering, 5 ECTS, 1.ay

Digital Techniques 2, 5 ECTS, 1.ay

<u>Bachelor's Thesis / Electronics and Communications Engineering, 8</u> <u>ECTS, 1.ay (in English)</u>

<u>Maturity Test for Bachelor 's Degree in Electronics and Communications</u> <u>Engineering, 0 ECTS, 1.ay</u>

<u>Seminar for Bachelor`s Degree, Electronics and Communications Engineering, 0 ECTS</u>, 1.ay

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Simulations and Tools	. f T . I	:	OTO 1	/· - · · ·			
Similiations and Look	S TAR TEIECAMMIT	inications 5 F	$C \setminus S \setminus A \setminus A$	(in Englie	h۱		
	, 101 1 CICCOIIIIII	iiiicationis, s L	.OIO, I.ay	(III LIIGIIS	!! <i>)</i>		

Electronics Materials, 5 ECTS, 1.ay (in English)

Electronic Measurement Techniques, 5 ECTS, 1.ay (in English)

Electronic System Design, 5 ECTS, 1.ay (in English)

Practical Training, 3 ECTS, 1.ay (in English)

Introduction to Biomedical Engineering, 5 ECTS, 1.ay (in English)

Advanced Practical Training, 3 ECTS, 1.ay (in English)

<u>Laboratory Works of Electronic Measurement Techniques, 5 ECTS</u>, 1.ay (in English)

Intermediate Studies: Information Processing Science, 95 ECTS

Requirements Engineering, 5 ECTS, 1.ay (in English)

Software Modeling and Design, 5 ECTS, 1.ay (in English)

Software Quality and Testing, 5 ECTS, 1.ay (in English)

Data Modeling and Design, 5 ECTS, 1.ay (in English)

Software Architectures, 5 ECTS, 1.ay (in English)

Programming 2, 5 ECTS, 1.ay (in English)

Databases, 5 ECTS, 1.ay (in English)

Data Structures and Algorithms, 5 ECTS, 1.ay (in English)

Programming 3, 5 ECTS, 1.ay (in English)

Programming 4, 5 ECTS, 1.ay (in English)

<u>Information Systems Modelling, Design and Development, 5 ECTS</u>, 1.ay (in English)

Business Process Management and Modelling, 5 ECTS, 1.ay (in English)

Data Analytics and Business Intelligence, 5 ECTS, 1.ay (in English)

Basics of Project Work, 5 ECTS, 1.ay (in English)

Software Development, Maintenance and Operations, 5 ECTS, 1.ay (in English)

<u>Professional Software Engineering Processes and Human Factors, 5</u> <u>ECTS</u>, 1.ay (in English)

<u>Digitalisation and Innovation, 5 ECTS</u>, 1.ay (in English)

Servitisation, Co-Creation and Business Development, 5 ECTS, 1.ay (in English)

User Experience (UX) Design and Management, 5 ECTS, 1.ay (in English)

Advanced Studies, 457-471 ECTS

Advanced Studies: Engineering Mathematics, 5 ECTS

Numerical Matrix Analysis, 5 ECTS, 1.ay (in English)

Advanced Studies: Computer Science and Engineering, 182 ECTS

Affective Computing, 5 ECTS, 1.ay (in English)

Application Specific Signal Processors, 5 ECTS, 1.ay (in English)

Applied Computing Project II, 10 ECTS, 1.ay (in English)
Big Data Processing and Applications, 5 ECTS, 1.ay (in English)
Biomedical Engineering Project, 5 ECTS, 1.ay (in English)
Biosignal Processing I, 5 ECTS, 1.ay (in English)
Biosignal Processing II, 5 ECTS, 1.ay (in English)
Computer Graphics, 5 ECTS, 1.ay (in English)
Computer Security, 5 ECTS, 1.ay (in English)
<u>Deep Learning, 5 ECTS</u> , 1.ay (in English)
<u>Distributed Systems, 5 ECTS</u> , 1.ay
Embedded System Project, 5 ECTS, 1.ay (in English)
Fundamentals of Sensing, Tracking and Autonomy 1, 5 ECTS, 1.ay (in English)
Internet of Things, 5 ECTS, 1.ay (in English)
Machine Learning, 5 ECTS, 1.ay (in English)
Machine Vision, 5 ECTS, 1.ay (in English)
Multi-Modal Data Fusion, 5 ECTS, 1.ay (in English)
Multiprocessor Programming, 5 ECTS, 1.ay
Natural Language Processing and Text Mining, 5 ECTS, 1.ay (in English)
Programmable Web Project, 5 ECTS, 1.ay (in English)

Signal Processing Systems, 5 ECTS, 1.ay (in English)

Software Project, 7 ECTS, 1.ay (in English)

Towards Data Mining, 5 ECTS, 1.ay (in English)

VR Systems and Humans, 5 ECTS, 1.ay (in English)

<u>Special Course in Information Technology 1 - An introduction to computer vision methods for biomedical images (only for BME students), 5</u>
<u>ECTS</u>, 1.ay (in English)

<u>Special Course in Information Technology 2 - Function and Analysis of</u>
<u>Cardiovascular System (only for BME-SIP students), 5 ECTS, 1.ay (in English)</u>

<u>Special Course in Information Technology 3 - Data Mining Project, 5</u> <u>ECTS</u>, 1.ay (in English)

<u>Special Course in Information Technology 4 - International Crisis Management</u> (<u>CriM</u>), <u>5 ECTS</u>, 1.ay (in English)

<u>Special Course in Information Technology 5 - Computer Security Project, 5</u> <u>ECTS</u>, 1.ay (in English)

<u>Special Course in Information Technology 6 - Cryptographic systems and their weaknesses, 5 ECTS</u>, 1.ay (in English)

<u>Special Course in Information Technology 7 - Data-Driven Decision Making for Smart Citisen and Businesses, 5 ECTS</u>, 1.ay (in English)

<u>Special Course in Information Technology 8 - AI Ethics, Privacy and Legislation, 5 ECTS</u>, 1.ay (in English)

<u>Special Course in Information Technology 9 - Fundamentals of Sensing, Tracking, and Autonomy 2, 5 ECTS, 1.ay (in English)</u>

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<u>Special Course in Information Technology 12 - Modern Cryptography, 5</u>
<u>ECTS</u>, 1.ay (in English)
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<u>Special Course in Information Technology 13 - Empirical Research in Computer Security, 5 ECTS</u>, 1.ay (in English)

Advanced Studies: Electronics and Communications Engineering, 200-214 ECTS

Electronics Design II, 6 ECTS, 1.ay (in English)

Radio Engineering 1, 5 ECTS, 1.ay (in English)

Statistical Signal Processing 1, 5 ECTS, 1.ay (in English)

Electronics Design III, 6 ECTS, 1.ay (in English)

RF Components and Measurements, 5 ECTS, 1.ay

Introduction to Nanotechnology, 5 ECTS, 1.ay (in English)

Electronic Sensors, 5 ECTS, 1.ay (in English)

Microelectronics Packaging Technologies, 5 ECTS, 1.ay (in English)

Microelectronics and Micromechanics, 5 ECTS, 1.ay (in English)

Printed Electronics, 5 ECTS, 1.ay

Microelectronics project, 5 ECTS, 1.ay (in English)

Communications Networks I, 5 ECTS, 1.ay (in English)

Statistical Signal Processing II, 5 ECTS, 1.ay (in English)

Wireless Communications II, 5 ECTS, 1.ay (in English)

Radio Engineering II, 6 ECTS, 1.ay (in English) Communications Networks II, 7 ECTS, 1.ay (in English) Antennas, 5 ECTS, 1.ay (in English) Telecommunication Engineering Project, 5 ECTS, 1.ay (in English) Modern Topics in Telecommunications and Radio Engineering 1 - An Introduction to URLLC, 3-7 ECTS, 1.ay (in English) Communications Signal Processing, 5 ECTS, 1.ay (in English) Convex Optimization, 7 ECTS, 1.ay (in English) Statistical Communication Theory, 7 ECTS, 1.ay (in English) Optoelectronics, 5 ECTS, 1.ay (in English) Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay Optical Measurement Technology Exercise, 5-10 ECTS, 1.ay (in English)	Radio Channels, 5 ECTS, 1.ay (in English)
Antennas, 5 ECTS, 1.ay (in English) Telecommunication Engineering Project, 5 ECTS, 1.ay (in English) Modern Topics in Telecommunications and Radio Engineering 1 - An Introduction to URLLC, 3-7 ECTS, 1.ay (in English) Communications Signal Processing, 5 ECTS, 1.ay (in English) Convex Optimization, 7 ECTS, 1.ay (in English) Statistical Communication Theory, 7 ECTS, 1.ay (in English) Optoelectronics, 5 ECTS, 1.ay (in English) Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Radio Engineering II, 6 ECTS, 1.ay (in English)
Telecommunication Engineering Project, 5 ECTS, 1. ay (in English) Modern Topics in Telecommunications and Radio Engineering 1 - An Introduction to URLLC, 3-7 ECTS, 1. ay (in English) Communications Signal Processing, 5 ECTS, 1. ay (in English) Convex Optimization, 7 ECTS, 1. ay (in English) Statistical Communication Theory, 7 ECTS, 1. ay (in English) Optoelectronics, 5 ECTS, 1. ay (in English) Measurement Systems, 5 ECTS, 1. ay (in English) Wireless Measurements, 5 ECTS, 1. ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1. ay (in English) Biomedical Instrumentation, 5 ECTS, 1. ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1. ay (in English) EMC Design, 5 ECTS, 1. ay	Communications Networks II, 7 ECTS, 1.ay (in English)
Modern Topics in Telecommunications and Radio Engineering 1 - An Introduction to URLLC, 3-7 ECTS, 1.ay (in English) Communications Signal Processing, 5 ECTS, 1.ay (in English) Convex Optimization, 7 ECTS, 1.ay (in English) Statistical Communication Theory, 7 ECTS, 1.ay (in English) Optoelectronics, 5 ECTS, 1.ay (in English) Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Antennas, 5 ECTS, 1.ay (in English)
Introduction to URLLC, 3-7 ECTS, 1.ay (in English) Communications Signal Processing, 5 ECTS, 1.ay (in English) Convex Optimization, 7 ECTS, 1.ay (in English) Statistical Communication Theory, 7 ECTS, 1.ay (in English) Optoelectronics, 5 ECTS, 1.ay (in English) Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Telecommunication Engineering Project, 5 ECTS, 1.ay (in English)
Convex Optimization, 7 ECTS, 1.ay (in English) Statistical Communication Theory, 7 ECTS, 1.ay (in English) Optoelectronics, 5 ECTS, 1.ay (in English) Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	
Statistical Communication Theory, 7 ECTS, 1.ay (in English) Optoelectronics, 5 ECTS, 1.ay (in English) Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Communications Signal Processing, 5 ECTS, 1.ay (in English)
Optoelectronics, 5 ECTS, 1.ay (in English) Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Convex Optimization, 7 ECTS, 1.ay (in English)
Measurement Systems, 5 ECTS, 1.ay (in English) Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Statistical Communication Theory, 7 ECTS, 1.ay (in English)
Wireless Measurements, 5 ECTS, 1.ay (in English) Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Optoelectronics, 5 ECTS, 1.ay (in English)
Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English) Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Measurement Systems, 5 ECTS, 1.ay (in English)
Biomedical Instrumentation, 5 ECTS, 1.ay Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Wireless Measurements, 5 ECTS, 1.ay (in English)
Testing Techniques of Electronics and Printed Electronics, 5 ECTS, 1.ay (in English) EMC Design, 5 ECTS, 1.ay	Biophotonics and Biomedical Optics, 5 ECTS, 1.ay (in English)
English) EMC Design, 5 ECTS, 1.ay	Biomedical Instrumentation, 5 ECTS, 1.ay
Optical Measurement Technology Exercise, 5-10 ECTS, 1.ay (in English)	EMC Design, 5 ECTS, 1.ay
	Optical Measurement Technology Exercise, 5-10 ECTS, 1.ay (in English)

'IVI	Courses for exchange students- Faculty of Information Technology and Electrical Engineering 2022-2023 Opinto-opas 2
	Printed electronics design and construction exercise, 5 ECTS, 1.ay (in English)
	Wireless Measurements Project, 5-10 ECTS, 1.ay (in English)
	<u>Digital Techniques 3, 7 ECTS</u> , 1.ay (in English)
	Physical Design of Digital Integrated Circuits, 5 ECTS, 1.ay (in English)
	Electronics Design and Construction Exercise, 6 ECTS, 1.ay
	Energy Harvesting Technologies, 5 ECTS, 1.ay (in English)
	Wearable Sensors, 5 ECTS, 1.ay (in English)
Adv	vanced Studies: Information Processing Science, 70 ECTS
	Research Methods, 5 ECTS, 1.ay (in English)
	Advanced Software Quality and Security, 5 ECTS, 1.ay (in English)
	Software Platforms and Ecosystems, 5 ECTS, 1.ay (in English)
	Software-Defined Systems, 5 ECTS, 1.ay (in English)
	Software for Intelligent Systems and Artificial Intelligence (AI), 5 ECTS, 1.ay (in English)
	Information Systems Strategy and Leadership, 5 ECTS, 1.ay (in English)
	Societal and Individual Impacts of Information Systems, 5 ECTS, 1.ay (in English)
	Creating Domain Value with Data, 5 ECTS, 1.ay (in English)
	Software Engineering Research, 5 ECTS, 1.ay (in English)

Next Generation Software Engineering, 5 ECTS, 1.ay (in English)

Advanced Topics in Digital Cultures and Design, 5 ECTS, 1.ay (in English)

User Experience (UX) and Usability Evaluation, 5 ECTS, 1.ay (in English)

Persuasive Systems Design, 5 ECTS, 1.ay (in English)

ICT and Behaviour Change, 5 ECTS, 1.ay (in English)