












Courses available in English - academic year 2023/2024
Field of study: Electronics and Telecommunications (E&T / ICT)



ECTS

BSc E&T / ICT, ECTS cards:

<https://www.put.poznan.pl/karty-ects/20222023/elektronika-i-telekomunikacja---electronics-and-telecommunications/stacjonarne/studia-pierwszego-stopnia>









1 - autumn semester



		Język obcy - angielski
	6	Algorithms in electronics and telecommunications
	2	Foreign language - English (Part I, 2 ECTS)
		Foreign_language_Polish (Part I, 2 ECTS)
	4	Introduction to ICT networks
	8	Mathematics 1-Analysis
	3	Mathematics 2 - Algebra
	4	Metrology (Part I, 4 ECTS)
	0	Occupational Health and Safety
	0	Sport
	0	Students rights and duties

	3	EC 1-1 Elements of sociology and ethics (elected for a. y. 2020-21)
		EC 1-1 History of Poland

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2 - spring semester

	5	Electrical circuits
	4	Foreign language - English (Part II, 4 ECTS)
		Foreign_language_Polish (Part II, 4 ECTS)
	2	Metrology (Part II, 2 ECTS)
	6	Physics
	6	Programming in C
	5	Signal theory
	0	Sport

	2	EC 2-1 Business in ICT
		EC 2-1 Principles of entrepreneurship








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3 - autumn semester

	4	Digital systems design (Part I, 4 ECTS)
	5	Electromagnetic waves
	3	Foundations of telecommunications (Part I, 3 ECTS)
	3	Probabilistic methods in electronics and telecommunications
	5	Programming in C++
	6	Semiconductor Devices And Analog Electronics
	4	System theory






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4 - spring semester

	5	Computer Networks
	6	Digital Signal Processing
	4	Digital systems design (Part II, 2 ECTS)
	5	Foundations of telecommunications (Part II, 5 ECTS)
	3	Microprocessors (Part I, 3 ECTS)
	3	Optotelecommunication (Part I, 3 ECTS)
	4	Telecommunication networks

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5 - autumn semester







	4	Introduction to multimedia
	3	Microprocessors (Part II, 3 ECTS)
	3	Numerical methods
	3	Optotelecommunication (Part II, 3 ECTS)
	5	Programmable Digital Circuits

	4	EC 5-1 Digital Communications (elected for a. y. 2020-21, 2021-22, 2022-23 2023-24)
	3	EC 5-2 Computer Aided Design (2022-23, 2023-24)
	5	EC 5-3 Java Programming (elected for a. y. 2020-21, 2021-22, 2022-23 2023-24)

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6 - spring semester





	4	Internship (Practical placement)
	4	Multimedia communications
	4	Radiocommunication

	3	EC 6-1 Cybersecurity (elected for a. y. 2021-22, 2022-23 2023-24)
	3	EC 6-2 Computer Measurement Systems (elected for a. y. 2020-21, 2021-22, 2022-23 2023-24)
	3	EC 6-3 Database Application Programming (elected for a. y. 2020-21, 2021-22 2022-23 2023-24)
	3	EC 6-4 Application Oriented Network Operating Systems (elected for a. y. 2020-21, 2023-24)
	3	EC 6-5 Hierarchies of Digital Transmission Systems (elected for a. y. 2021-22)
	3	EC 6-6 Introduction to Visual Data Analysis (2022-23 2023-24)

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7 - autumn semester

	18	Diploma seminar (Diploma project required)
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	3	EC 7-1 Optical Networks (elected for a. y. 2020-21, 2022-23 2023-24)
	3	EC 7-2 Programming of Mobile Terminals in Android (elected for a. y. 2020-21, 2021-22, 2023-24)
	3	EC 7-3 Optoelectronic and Photonic Elements and Technology (elected for a. y. 2022-23 2023-24)
	3	EC 7-4 Wireless LANs, PANs and MANs (2022-23 2023-24)



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BSc / MSc E&T / ICT ECTS cards:

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0 - Preparatory semester (autumn)

	5	Digital Signal Processing
	0	OHS (Occupational Health and Safety)

	2	Programming in C++
	4	Telecommunications systems












	4	EC 0-1 Foundations of Wireless Communications (elected for a. y. 2022-23 2023-24)
	5	EC 0-2 Introduction to Programming in Matlab (elected for a. y. 2022-23 2023-24)
	5	EC 0-3 Fundamentals of Multimedia (elected for a. y. 2022-23 2023-24)
	5	EC 0-4 Communication Networks (elected for a. y. 2020-21, 2021-22)

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MSc E&T / ICT ECTS cards:






ECTS cards: <https://www.put.poznan.pl/karty-ects/20222023/elektronika-i-telekomunikacja---electronics-and-telecommunications/stacjonarne/studia-drugiego-stopnia>





1 - spring semester

	2	Foreign language - English
		Foreign language Polish
	4	Information and coding theory
	3	Internship (Practical placement)
	3	Mobile systems
	2	Multimedia systems
	3	Network management
	3	Optical Fiber Communication Systems
	2	Satellite navigation systems
	5	Selected_topics_in_mathematics
	3	Simulation techniques

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2 - autumn semester






	4	Advanced signal processing algorithms
	2	Optimization methods
	3	Programmable Digital Systems
	3	Telecommunication network design
	2	Workshop

	5	EC 2-1 Programming of AVR Microcontrollers (2023-24)
	5	EC 2-2 Embedded Systems (2023-24)
	4	EC 2-3 Programming of Mobile Terminal (2022-23 2023-24)
	2	EC 2-4 Interpersonal Communication (2023-24)

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3 - spring semester

	12	Diploma seminar (Diploma project required)
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	3	EC 3-0 IP-based Video Surveillance (elected for a. y. 2020-21, 2022-23 2023-24)
	4	EC 3-1 Digital Television (2023-24)
	4	EC 3-2 Advanced Programming of Mobile Devices (elected for a. y. 2020-21, 2023-24)
	4	EC 3-3 Design of Systems with FPGA (elected for a. y. 2020-21, 2021-22, 2022-23 2023-24)
	3	EC 3-4 Concepts and Tools of Modern Business Management (elected for a. y. 2022-23 2023-24)

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