

Courses available in English - **academic year 2025/2026**
Field of study: **Electronics and Telecommunications (E&T / ICT)**

ECTS

BSc E&T / ICT, ECTS cards:

<https://put.poznan.pl/karty-ects/20242025/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 ^(*)
		EC 1-1 History of Poland ^(*)
		^(*) Only one EC 1-1 module will be available - info at the beginning of the semester
	27	

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 ^(*)
			^(*) Only one EC 2-1 module will be available - info at the beginning of the semester
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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
		2	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
		28	

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. 2025-26)
		3	EC 5-2 Computer aided design (elected for a. y. 2025-26)
		5	EC 5-3 Java Programming (elected for a. y. 2025-26)
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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. 2025-26)
		3	EC 6-2 Computer measurement systems (elected for a. y. 2025-26)
		3	EC 6-3 Database Application Programming (elected for a. y. 2025-26)
		3	EC 6-4 Hardware oriented network operating systems (elected for a.y. 2025-26)
		3	EC 6-5 Synchronous Digital Hierarchy in communication systems (elected for a. y. 2025-26)
		3	EC 6-6 Introduction to object and event recognition (elected for a. y. 2025-26)
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7 - autumn semester

		18	Diploma seminar (Diploma project required)
		3	EC 7-1 Switching systems (elected for a. y. 2025-26)
		3	EC 7-2 Programming Of Mobile Terminals In Android (elected for a. y. 2025-26)
		3	EC 7-3 Optoelectronic and photonic elements and technology (elected for a. y. 2025-26)

		3	EC 7-4 IEEE 802 networks (elected for a. y. 2025-26)
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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. 2025-26)
		5	EC 0-2 Introduction to programming in Matlab (elected for a. y. 2025-26)
		5	EC 0-3 Fundamentals of multimedia (elected for a. y. 2025-26)
			EC 0-4 Communication Networks (elected for a. y. 2025-26)
		25	

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 Security_in_communication_networks (elected for a. y. 2025-26)
	5	EC 2-2 Embedded systems (elected for a.y, 2025-26)
	4	EC 2-3 Networked Surveillance Systems ^(*)
		EC 2-3 Programming Of Mobile Terminal ^(*)
		^(*) Only one EC 2-3 module will be available - info at the beginning of the semester
	2	EC 2-4 Economics_of_Businesses (elected for a. y. 2025-26)
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3 - spring semester

	12	Diploma seminar (Diploma project required)
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	3	EC 3-0 Advanced transmission technics in wireless systems (elected for a.y. 2025-26)
	4	EC 3-1 Advanced data compression (elected for a. y. 2025-26)
	4	EC 3-2 Optimization of comm. networks (elected for a. y. 2025-26)
	4	EC 3-3 Security in wireless networks (elected for a. y. 2025-26)
	3	EC 3-4 Business Negotiations (elected for a. y. 2025-26)
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