

PhD Studies
in Communication Technologies (Technologie Telekomunikacyjne)
at the Faculty of Electronics and Telecommunications of the Poznań University of Technology
(course conducted in English)

EDUCATIONAL SCHEDULE OF FULL-TIME PhD STUDIES

Item	Subject	Godz.	ECTS	Year I				Year II				Year III				Year IV			
				Sem.1		Sem.2		Sem.3		Sem.4		Sem.5		Sem.6		Sem.7		Sem.8	
				Hrs	ECTS	Hrs	ECTS	Hrs	ECTS	Hrs	ECTS	Hrs	ECTS	Hrs	ECTS	Hrs	ECTS	Hrs	ECTS
1.	Teacher training	60	6	30	3	30	3												
2.	OHS training	8	0	8															
3.	Methodology and principles of editing scientific papers	10	1	10	1														
4.	Research and scientific grants	10	1	10	1														
5.	Methodology of scientific research	20	3			20	3												
6.	English course	30	3					30	3										
7.	Additional subject	30	3							30	3								
8.	Selectable subject	90	12	15	2	15	2	15	2	15	2	15	2	15	2				
9.	PhD seminar	120	8	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1
10.	Promoter's seminar	80	0	10		10		10		10		10		10		10		10	
	In total	458	37	98	8	90	9	70	6	70	6	40	3	40	3	25	1	25	1

Additional subject

Philosophy

Economics

Ethics

Selectable subjects

PO - Selectable subjects (Pol. "przedmiot obieralny")

PO 1 KR - Network Coding

PO 1 KS - Network Theory

PO 1 KO - Computer-based Measurement Systems for Scientific Experiments

PO 1 KM - Multirate and Multidimensional Signal Processing

PO 2 KR - Selected Topics in Wireless Communications

PO 2 KS - Current Research Problems in Optical Networking

PO 2 KO - Timing and Synchronization in Telecommunications Networks

PO 2 KM - Image and Video Processing

PO 3 KR - Coded Modulation-essentials and Recent Reports

PO 3 KS - Current Research Problems in Switching Systems

PO 3 KO - Advanced Digital Signal Processing Techniques

PO 3 KM - Linear System Reduction

PO 4 KR - Game Theory

PO 4 KS - Traffic Control in Packet Networks

PO 4 KO - Optical Signal Processing and Transmission

PO 4 KM - Multimedia Telecommunications

PO 5 KR - Capacity-increasing Small Cells Development in Future Wireless Networks

PO 5 KS - Advanced Traffic Theory and Engineering in Multi-service Networks

PO 5 KO - Quantum Metrology

PO 5 KM - Recent Advances in Multimedia Telecommunications

PhD Studies Framework Plan [ECTS]

Semester	Courses included in the entire study programme												
	Effects regarding skills in:												
	teaching methods and technology (sec.5(2))		research methods and methodology (sec.5(1)(2))						latest achievements in science and art of the research subject (sec.5(1)(1))				
	University-scale courses								Faculty-scale courses			In total	
	Optional courses					Preparation for PhD exams (sec.3(5))		latest achievements in science and art of the research subject (sec.5(1)(1))		Apprenticeships (sec.6(1))			
	developing teaching skills (sec.4(4))		developing professional skills (sec.4(3))		In total								
	ECTS	h	ECTS	h	ECTS	h	ECTS	h	ECTS	h		ECTS	h
Semester I	3	30	1+1	20	5	50			3	40		8	90
Semester II	3	30	3	20	6	50			3	40		9	90
Semester III							3	30	3	40		6	70
Semester IV							3	30	3	40		6	70
Semester V									3	40		3	40
Semester VI									3	40		3	40
Semester VII									1	25		1	25
Semester VIII									1	25		1	25
IN TOTAL	6	60	5	40	11	100	6	60	20	290		37	450
ECTS required	≥5		≥5									30-45	
Hours required						≥15					10-90		

Educational effects																							
Symbol	Educational effects of PhD studies at the Poznań University of Technology	Educational effects of PhD studies at the Faculty of Electronics and Telecommunications	Symbol	Semester 1				Semester 2				Semester 3				Semester 4							
Description of education effects regarding technical science				Teacher training	Methodology and principles of scientific research	Research and scientific grants	Selectable subject	Promoter's seminar	PhD seminar	Teacher training	Methodology of scientific research	Selectable subject	Promoter's seminar	PhD seminar	English course	Selectable subject	Promoter's seminar	PhD seminar	Additional subject	Selectable subject	Promoter's seminar	PhD seminar	
				SOCIAL COMPETENCES																			
UD-K01	Social competences related to the scientific, research and social roles of a scientist																						
UD-K02	Ability to work in a team, openness to collaboration with others																						
UD-K03	Ability to plainly and comprehensibly popularise knowledge on the achievements of science and technology																						
		Self-criticism in creative work, recognition and appreciation of the need for continuous improvement of professional competences	SD-K01																				
		Preparation for the implementation of intended study objectives, including the pursuit of one's own scientific career.	SD-K02																				

Educational effects													
Symbol	Educational effects of PhD studies at the Poznań University of Technology	Educational effects of PhD studies at the Faculty of Electronics and Telecommunications	Symbol	Semester 5			Semester 6			Semester 7		Semester 8	
Description of education effects regarding technical science				Selectable subject	Promoter's seminar	PhD seminar	Selectable subject	Promoter's seminar	PhD seminar	Promoter's seminar	PhD seminar	Promoter's seminar	PhD seminar
SOCIAL COMPETENCES													
UD-K01	Social competences related to the scientific, research and social roles of a scientist												
UD-K02	Ability to work in a team, openness to collaboration with others												
UD-K03	Ability to plainly and comprehensibly popularise knowledge on the achievements of science and technology												
		Self-criticism in creative work, recognition and appreciation of the need for continuous improvement of professional competences	SD-K01										
		Preparation for the implementation of intended study objectives, including the pursuit of one's own scientific career.	SD-K02										