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Social competencies:

		STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject Problem workshop				Code 101081212101081011	
Field of	•		Profile of study	Year /Semester	
Electronics and Telecommunications			(general academic, practical) general academic 1 / 2		
Elective path/specialty Radio Communications			Subject offered in: Polish	Subject offered in: Course (compulsory, elective	
Cycle of study:			Form of study (full-time,part-time		
	Second-c	ycle studies	full-time		
No. of h	nours			No. of credits	
Lectu	re: - Classes	s: - Laboratory: -	Project/seminars:	2 1	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another field)		
		other	from field		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
technical sciences				1 100%	
Technical sciences				1 100%	
dr ir ema tel. Fac	ponsible for subjections. Rafał Krenz ail: rafal.krenz@put.po +48.61.6653912 aulty of Electronics and Piotrowo 3A 60-965 Po	oznan.pl I Telecommunications			
Prere	equisites in term	s of knowledge, skills an	d social competencies	s:	
1	Knowledge	All from K1_W01 to K1_W24. K2_W06			
2	Skills	All from K1_U01 to K1_U27. K2_U13 K2_U15 K2_U17			
3	Social competencies	All from K1_K01 do K1_K05.			
Assu	_	jectives of the course:			
commi	unications in collabora and to prepare the ora	s to develop the ability for individuation with other members of a team I presentation with the use of self- mes and reference to the	n. Another purpose is to know prepared slides.	about the structure of a scient	
Knov	vledge:				
1. Has	in-depth knowledge o	of construction and operation of w		W NA WASS	
		al knowledge of software defined r	adio technology and its applic	cations [K2_W03]	
Skills		ific paper or tachnical report and	rivo a procentation (in English	or in Polish) on solving a pro-	
	area of electronics and	ific paper or technical report and of divor telecommunication; is able to			
		nent techniques and devices, spec	cific to wireless communication	ns [K2 U013]	

Assessment methods of study outcomes

2. Is aware of the necessity to approach solving technical problems with responsibility and professionalism. - [K2_K04]

1. Is able to act as a formal head of a small group of co-workers; is able to lead a small team. - [K2_K01]

Poznan University of Technology Faculty of Electronics and Telecommunications

Final report.							
Oral presentation of a solved problem.							
Activity during studies.							
Course description							
Application of software defined radio (software and hardware platforms) to wireless communication systems.							
Set-up and configuration of wireless communication systems, with emphasis on 2G/4G systems.							
Physical layer measurements in wireless communications.							
Basic bibliography:							
Additional bibliography:							
Result of average student's workload							
Activity	Time (working hours)						
Participation in lab meetings.	30						
Individual solving a given problem.	15						
3. Preparation of a report.		5					
Student's workload							
Source of workload	hours	ECTS					
Total workload	50	1					

30

40

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Contact hours Practical activities