

PLAN OF STUDIES

FACULTY:

ELECTRONICS

MAIN FIELD OF STUDY:

TELECOMMUNICATIONS.

EDUCATION LEVEL:

2nd * level, magister /

FORM OF STUDIES:

full-time

PROFILE:

general academic

SPECIALIZATION:....

Modern Telecommunications

LANGUAGE OF STUDY:

English

Uchwała Rady Wydziału z dnia r.

Obowiązuje od 01 października 2017 r.

1. Set of obligatory and optional courses and groups of courses in semestral arrangement

Semester 1

Obligatory courses

number of ECTS points: **11**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	FLEA002W	Komunikacja społeczna- Social Comm.	1	0	0	0	0	K2TEL_U03, K2TEL_K01	15	60	2	1	T	Z	O		KO	Ob
2	TKEU00005W	Optyka - Optics	1	0	0	0	0	K2TEL_W01	15	30	1	0,5	T	Z			KO	Ob
3	TKEA00005W	Metody optymalizacji- Optimization Methods	2	0	0	0	0	K2TEL_W04	30	90	3	1	T	E(w)			KO	Ob
4	TKEA17011L	Zaawansowane techniki sieciowe - Advanced Network Techniques	0	0	4	0	0	K2TEL_U08	60	150	5	2,5	T	Z		5	K	Ob
Total			4	0	4	0	0	-	120	330	11	5	-	-	-	5	-	-

Groups of obligatory courses

number of ECTS points: **16**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	MAT001560W	Statystyka matematyczna (GK) - Mathematics Statistics	1	0	0	0	0	K2TEL_W03	15	60	3	1	T	Z	O		PD	Ob
2	MAT001560C	Statystyka matematyczna (GK) - Mathematics Statistics	0	1	0	0	0	K2TEL_U04	15	30		1	T	Z	O	2	PD	Ob
3	TKEA00026W	Metody numeryczne – Numerical Methods	2	0	0	0	0	K2TEL_W05	30	90	5	1	T	Z			KO	Ob
4	TKEA00026P	Metody numeryczne – Numerical Methods	0	0	0	2	0	K2TEL_U11	30	60		1	T	Z		2	KO	Ob

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⁴University-wide course /group of courses – enter O

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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⁷ Optional – enter W, obligatory – enter Ob

5	TKEA15004W	Technika w. cz. w telekomunikacji (GK) - HF Techniques in Telekommunicatinos	2	0	0	0	0	K2TEL_W07	30	60	4	1	T	Z			KO	Ob
6	TKEA15004L	Technika w. cz. w telekomunikacji (GK) - HF Techniques in Telekommunicatinos	0	0	1	0	0	K2TEL_U07	15	60		1	T	Z		2	KO	Ob
7	TKEA00025W	Elementy sieci optycznych (GK) - Optical Networks Elements	2	0	0	0	0	K2TEL_W06	30	60	4	1	T	Z			KO	Ob
8	TKEA00025P	Elementy sieci optycznych (GK) - Optical Networks Elements	0	0	0	1	0	K2TEL_U06	15	60		1	T	Z		2	KO	Ob
Total			7	1	1	3	0	-	180	480	16	8	-	-	-	8	-	-

Optional courses

number of ECTS points: **3**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			universit y-wide ⁴	practical ⁵	kind ⁶	type ⁷
1		Język obcy A1 - Foreign Language	0	3	0	0	0	K2TEL_U01	45	60	2	1	T	Z	O	1	KO	W
2		Język obcy B2+ - Foreign Language	0	1	0	0	0	K2TEL_U02	15	30	1	1	T	Z	O	1	KO	W
Total			0	4	0	0	0	-	60	90	3	2	-	-	-	2	-	-

Altogether in semester

Total number of hours					Total number of ZZU	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
11	5	5	3	0	360	900	30	15

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⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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Semester 2

Obligatory courses

number of ECTS points: **1**

Lp	Kod kursu/grupy kursów	Nazwa kursu/grupy kursów (grupę kursów oznaczyć symbolem GK)	Tygodniowa liczba godzin					Symbol kierunk. efektu kształcenia	Liczba godzin		Liczba pkt. ECTS		Forma ² kursu/grupy kursów	Sposób ³ zaliczenia	Kurs/grupa kursów			
			w	ć	l	p	s		ZZU	CNPS	łącna	zajęc BK ¹			ogólnouczelniany ⁴	o charakterze praktycznym ⁵	rodzaj ⁶	typ ⁷
1	TKEA17021W	Filtracja ortogonalna sygnałów stochastycznych stoch. sign.- Orthogonal filtering of stochastic signals (GK)	1	0	0	0	0	S2TMT_W02	15	30	1	0,5	T	Z			S	Ob
Total			1	0	0	0	0	-	15	30	1	0,5	-	-	-	0	-	-

Groups of obligatory courses

number of ECTS points: **5**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	TKEA17031W	Systemy wbudowane (GK) - Embedded Systems	1	0	0	0	0	K2TEL_W10	15	30	3	0,5	T	Z			K	Ob
2	TKEA17031L	Systemy wbudowane (GK) - Embedded Systems	0	0	2	0	0	K2TEL_U10	30	60		1	T	Z		2	K	Ob
3	TKEA17022W	Kompresja informacji (GK) - Compression of Information	2	0	0	0	0	K2TEL_W09	30	60	2	0,5	T	E(w)			K	Ob
4	TKEA27022L	Kompresja informacji (GK) - Compression of Information	0	0	1	0	0	K2TEL_U09	15	30		0,5	T	Z		1	K	Ob
Total			3	0	3	0	0	-	90	180	5	2,5	-	-	-	3	-	-

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⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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Optional courses

 number of ECTS points: **5**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			universit y-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	TKEA0010L	Aplikacje mobilne - Mobile Applications	0	0	2	0	0	S2TMT_U10	30	60	2	1	T	Z		2	K	W
2	TKEA014S	Seminarium specjalnościowe - Specialization Seminar	0	0	0	0	2	S2TIM_W10, S2TIM_K01	30	90	3	1	T	Z		2	K	W
Total			0	0	2	0	2	-	60	150	5	2	-	-	-	4	-	-

Groups of optional courses

 liczba punktów ECTS: **19**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			universit y-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	TKEA00028W	Sieci optyczne - Optical Networks 1	1	0	0	0	0	S2TMT_W05	15	90	3	1	T	Z			S	W
3	TKEA019W	Sieci multimedialne (GK) - Multimedia Systems	1	0	0	0	0	S2TMT_W02	15	30	4	1	T	E(w)			S	W
4	TKEA019L	Sieci multimedialne (GK) - Multimedia Systems	0	0	2	0	0	S2TMT_U02	30	60		2	T	Z		2	S	W
5	TKEA007W	Elementy sieci fotonicznych (GK) - Photonic Communictaion Components	2	0	0	0	0	S2TMT_W01	30	90	5	2	T	Z			S	W
6	TKEA007L	Elementy sieci fotonicznych (GK) - Photonic Communictaion Components	0	0	2	0	0	S2TMT_U01	30	60		1	T	Z		2	S	W
7	TKEA009W	Sieci mobilne (GK) - Mobile Networks	1	0	0	0	0	S2TMT_W03	15	90	5	1	T	Z			S	W
8	TKEA009L	Sieci mobilne (GK) - Mobile Networks	0	0	1	0	0	S2TMT_U03	15	30		1	T	Z		1	S	W

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9	TKEA009P	Sieci mobilne (GK) - Mobile Networks	0	0	0	1	0	S2TMT_U03	15	30		1	T	Z		1	S	W
10	TKEA020W	Sieci satelitarne (GK) -Satellite Communication Networks	1	0	0	0	0	S2TMT_W08	15	30	2	1	T	Z			S	W
11	TKEA020S	Sieci satelitarne (GK) -Satellite Communication Networks	0	0	0	0	1	S2TMT_U08	15	30		1	T	Z		1	S	W
Total			6	0	5	1	1	-	195	540	19	12	-	-	-	7	-	-

Altogether in semester

Total number of hours					Total number of ZZU	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
10	0	10	1	3	360	900	30	17

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Semester 3

Obligatory courses

liczba punktów ECTS: **2**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			universit y-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	TKEA17030W	Przedsiębiorczość w ICT (GK) - ICT Business	2	0	0	0	0	K2TEL_W02, K2TEL_K02	30	60	2	1	T	Z			K	Ob
Total			2	0	0	0	0	-	30	60	2	1	-	-	-	0	-	-

Optional courses

number of ECTS points: **15**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			universit y-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	TKEA00002S	Seminarium dyplomowe - MSc Seminar	0	0	0	0	2	S2TMT_U08	30	90	3	2	T	Z		3	S	W
2	TKEA15001	Praca dyplomowa - Final MSc Projekt	0	0	0	0	0	S2TMT_U09, S2TMT_K02		360	12	6	T	Z		12	S	W
Total			0	0	0	0	2	-	30	450	15	8	-	-	-	15	-	-

*Realizacja lipiec-sierpień-wrzesień poprzedzające semestr VII

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Groups of optional courses

number of ECTS points: **13**

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational effect symbol	Number of hours		Number of ECTS points		Form ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	total	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	TKEA00033W	Techniki ultraszerokopasmowe i terahercowe – UWB and THz Techniques	1	0	0	0	0	S2TMT_W07	15	60	3	1	T	Z			S	Ob
2	TKEA00033S	Techniki ultraszerokopasmowe i terahercowe - UWB and THz Techniques	0	0	0	0	1	S2TMT_U07	15	30		1	T	Z		1	S	Ob
3	TKEA00032W	Odbiorniki cyfrowe (GK)- Digital receivers	1	0	0	0	0	S2TMT_W06	15	60	3	1	T	Z			S	Ob
4	TKEA00032P	Odbiorniki cyfrowe (GK) - Digital receivers	0	0	0	1	0	S2TMT_U06	30	30		1	T	Z		1	S	Ob
5	TKEA00029L	Sieci optyczne 2 (GK) - Optical Networks 2	0	0	2	0	0	S2TMT_W05	30	60	2	1	T	Z		2	S	Ob
6	TKEA023W	Bezpieczeństwo systemów teleinformatycznych (GK) - Security in Teleinformatics systems	1	0	0	0	0	S2TMT_W04	15	60	5	1	T	Z			S	Ob
7	TKEA023L	Bezpieczeństwo systemów teleinformatycznych (GK) - Security in Teleinformatics systems	0	0	3	0	0	S2TMT_U04	45	90		1,5	T	Z		3	S	Ob
Total			3	0	5	1	1	-	165	390	13	7,5	-	-	-	7	-	-

Altogether in semester

Total number of hours					Total number of ZZU	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
5	0	5	1	3	225	900	30	16,5

2. Set of examinations in semestral arrangement

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Course code	Names of courses ending with examination	Semester
TKEA005W	Metody optymalizacji- Optimization Methods	1
TKEA022W	Kompresja informacji (GK) - Compression of Information	2
TKEA019W	Sieci multimedialne (GK) - Multimedia Systems	2

3. Numbers of allowable deficit of ECTS points after particular semesters

Semester	Allowable deficit of ECTS points after semester
1	10
2	0
3	0

Uwaga: Deficyt liczony jest z uwzględnieniem WSZYSTKICH kursów/grup kursów, również nietechnicznych (język obcy, zajęcia sportowe, przedmioty hum.-men.-społ.).

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Zaopiniowane przez wydziałowy organ uchwałodawczy samorządu studenckiego:

.....
Data

.....
Imię, nazwisko i podpis przedstawiciela studentów

.....
Data

.....
Podpis Dziekana

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