1.	Field of study	Mechatronics
2.	Academic year of entry	2017/2018 (summer term), 2018/2019 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0714 (Electronics and automation)

Specialization: projektowanie mechatroniczne

A

No.	Module	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E
1	Basics of machine construction 2	Z	45	15	30	3	15	30	3						
2	Electronic systems in mechatronics	E	60	30	30	3	30	30	3						
3	Materials and materials technologies	E	45	15	30	3	15	30	3						
4	Selected problems of applied mathematics	Z	45	15	30	3	15	30	3						
5	Strenght of materials II	Z	45	15	30	2	15	30	2						
6	Automation of technological processes	Z	30	15	15	3				15	15	3			
7	Construction and programming of robots	E	45	15	30	4				15	30	4			
8	Network operating systems	E	60	15	45	4				15	45	4			
9	Numercial methods	Z	45	15	30	4				15	30	4			
	TOTAL A:		**420**	**150**	**270**	**29**	**90**	**150**	**14**	**60**	**120**	**15**	**0**	**0**	**0**

C - INNE WYMAGANIA

No.	Module	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E
1	Humanistic subject - optional	Z	30	30		3	30		3						
2	Menagement of production, services and human resourses	Z	30	30		3	30		3						
3	English language	Z	30		30	2					30	2			
	TOTAL C - INNE WYMAGANIA:		**90**	**60**	**30**	**8**	**60**	**0**	**6**	**0**	**30**	**2**	**0**	**0**	**0**

TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E
1	Computer vizualization of layouts and systems	E	60	30	30	5	30	30	5						
2	Design of automatic transducers	E	60	30	30	5	30	30	5						
3	Controling in mechatronic objects	E	60	30	30	4				30	30	4			

TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2		
							semester 1			semester 2			semester 3		
			Total	L	O		L	O	E	L	O	E	L	O	E
4	Diploma laboratory 1	Z	30		30	4					30	4			
5	Monographic lecture 1	Z	30	30		2				30		2			
6	Seminar 1	Z	30		30	3					30	3			
7	Computer design and numerical analysis of machine parts	Z	60	30	30	5							30	30	5
8	Diploma laboratory 2 (diploma thesis preparation)	Z	60		60	20								60	20
9	Monographic lecture 2	Z	30	30		2							30		2
10	Seminar 2	Z	30		30	3								30	3
	TOTAL TRESCI SPECJALIZACYJNE:		**450**	**180**	**270**	**53**	**60**	**60**	**10**	**60**	**90**	**13**	**60**	**120**	**30**
	TOTAL:		**960**	**390**	**570**	**90**	**420**		**30**	**360**		**30**	**180**		**30**
	TOTAL						**960**								

The study ends with the awarding of a Master's Degree in the field of Mechatronics.

Legend
Each semester consists of 15 weeks
E/C - examination/course work
E - ECTS
L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

Plan studiów zatwierdzony przez Radę Wydziału w dniu 22.06.2017 r.

Otrzymują:

1. Dział Kształcenia
2. Wydział Informatyki i Nauki o Materiałach
3. Dziekanat

..... (pieczęć i podpis Dyrektora Instytutu)

..... (pieczęć i podpis Dziekana)

1.	Field of study	Mechatronics
2.	Academic year of entry	2017/2018 (summer term), 2018/2019 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0714 (Electronics and automation)

Specialization: technologia układów mikromechatronicznych

A

No.	Module	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E
1	Basics of machine construction 2	Z	45	15	30	3	15	30	3						
2	Electronic systems in mechatronics	E	60	30	30	3	30	30	3						
3	Materials and materials technologies	E	45	15	30	3	15	30	3						
4	Selected problems of applied mathematics	Z	45	15	30	3	15	30	3						
5	Strenght of materials II	Z	45	15	30	2	15	30	2						
6	Automation of technological processes	Z	30	15	15	3				15	15	3			
7	Construction and programming of robots	E	45	15	30	4				15	30	4			
8	Network operating systems	E	60	15	45	4				15	45	4			
9	Numercial methods	Z	45	15	30	4				15	30	4			
	TOTAL A:		**420**	**150**	**270**	**29**	**90**	**150**	**14**	**60**	**120**	**15**	**0**	**0**	**0**

C - INNE WYMAGANIA

No.	Module	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E
1	Humanistic subject - optional	Z	30	30		3	30		3						
2	Menagement of production, services and human resourses	Z	30	30		3	30		3						
3	English language	Z	30		30	2					30	2			
	TOTAL C - INNE WYMAGANIA:		**90**	**60**	**30**	**8**	**60**	**0**	**6**	**0**	**30**	**2**	**0**	**0**	**0**

TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching: Total	L	O	Total ECTS	year 1 / semester 1: L	O	E	year 1 / semester 2: L	O	E	year 2 / semester 3: L	O	E
1	Functional ceramic materials for micromechatronics	E	60	30	30	5	30	30	5						
2	Modern technologies in micromechatronics	E	60	30	30	5	30	30	5						
3	Diploma laboratory 1	Z	30		30	4					30	4			

TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2		
							semester 1			semester 2			semester 3		
			Total	L	O		L	O	E	L	O	E	L	O	E
4	Microcontrollers and drivers application	E	60	30	30	4				30	30	4			
5	Monographic lecture 1	Z	30	30		2				30		2			
6	Seminar 1	Z	30		30	3					30	3			
7	Design of engineering materials	Z	60	30	30	5							30	30	5
8	Diploma laboratory 2 (diploma thesis preparation)	Z	60		60	20								60	20
9	Monographic lecture 2	Z	30	30		2							30		2
10	Seminar 2	Z	30		30	3								30	3
	TOTAL TRESCI SPECJALIZACYJNE:		**450**	**180**	**270**	**53**	**60**	**60**	**10**	**60**	**90**	**13**	**60**	**120**	**30**
	TOTAL:		**960**	**390**	**570**	**90**	**420**		**30**	**360**		**30**	**180**		**30**
	TOTAL						**960**								

The study ends with the awarding of a Master's Degree in the field of Mechatronics.

Legend
Each semester consists of 15 weeks
E/C - examination/course work
E - ECTS
L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

Plan studiów zatwierdzony przez Radę Wydziału w dniu 22.06.2017 r.

Otrzymują:

1. Dział Kształcenia
2. Wydział Informatyki i Nauki o Materiałach
3. Dziekanat

..... (pieczęć i podpis Dyrektora Instytutu)

..... (pieczęć i podpis Dziekana)