

1.	Field of study	Mechatronics
2.	Academic year of entry	2015/2016 (summer term), 2016/2017 (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 ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	L	O	E			
1	Basics of machine construction and operation II	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 tehcnological processes	Z	30	15	15	3				15	15	3						
7	Construction and programming of robots	E	45	15	30	4				15	30	4						
8	Machinery drivers	E	60	30	30	4				30	30	4						
9	Numercial methods	Z	45	15	30	4				15	30	4						
<b>TOTAL A:</b>			<b>420</b>	<b>165</b>	<b>255</b>	<b>29</b>	<b>90</b>	<b>150</b>	<b>14</b>	<b>75</b>	<b>105</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## C - INNE WYMAGANIA

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	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							
4	Physical education	Z	30		30	1				30	1							
<b>TOTAL C - INNE WYMAGANIA:</b>			<b>120</b>	<b>60</b>	<b>60</b>	<b>9</b>	<b>60</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>60</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	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									

## TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	L	O	E			
3	Controlling in mechatronic objects	E	60	30	30	4				30	30	4						
4	Diploma laboratory 1	Z	30		30	3					30	3						
5	Monographic lecture 1	Z	30	30		2				30		2						
6	Seminar 1	Z	30		30	3					30	3						
7	Control-measurement equipment	Z	60	30	30	3								30	30	3		
8	Diploma laboratory 2	Z	30		30	2									30	2		
9	Diploma thesis preparation	Z				20												20
10	Monographic lecture 2	Z	30	30		2								30				
11	Seminar 2	Z	30		30	3									30	3		
<b>TOTAL TRESCI SPECJALIZACYJNE:</b>			<b>420</b>	<b>180</b>	<b>240</b>	<b>52</b>	<b>60</b>	<b>60</b>	<b>10</b>	<b>60</b>	<b>90</b>	<b>12</b>	<b>60</b>	<b>90</b>	<b>30</b>			
<b>TOTAL:</b>			<b>960</b>	<b>405</b>	<b>555</b>	<b>90</b>	<b>420</b>	<b>30</b>		<b>390</b>	<b>30</b>	<b>150</b>	<b>30</b>					
<b>TOTAL</b>							<b>960</b>											

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 14.04.2015 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	<b>Mechatronics</b>
2.	Academic year of entry	2015/2016 (summer term), 2016/2017 (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 ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	L	O	E			
1	Basics of machine construction and operation II	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 tehcnological processes	Z	30	15	15	3				15	15	3						
7	Construction and programming of robots	E	45	15	30	4				15	30	4						
8	Machinery drivers	E	60	30	30	4				30	30	4						
9	Numercial methods	Z	45	15	30	4				15	30	4						
<b>TOTAL A:</b>			<b>420</b>	<b>165</b>	<b>255</b>	<b>29</b>	<b>90</b>	<b>150</b>	<b>14</b>	<b>75</b>	<b>105</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### C - INNE WYMAGANIA

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	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							
4	Physical education	Z	30		30	1				30	1							
<b>TOTAL C - INNE WYMAGANIA:</b>			<b>120</b>	<b>60</b>	<b>60</b>	<b>9</b>	<b>60</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>60</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	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									

## TRESCI SPECJALIZACYJNE

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2				
			Total	L	O		semester 1			semester 2			semester 3				
							L	O	E	L	O	E	L	O	E		
3	Diploma laboratory 1	Z	30		30	3					30	3					
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	3								30	30	3	
8	Diploma laboratory 2	Z	30		30	2									30	2	
9	Diploma thesis preparation	Z				20											20
10	Monographic lecture 2	Z	30	30		2								30			
11	Seminar 2	Z	30		30	3									30	3	
<b>TOTAL TRESCI SPECJALIZACYJNE:</b>			<b>420</b>	<b>180</b>	<b>240</b>	<b>52</b>	<b>60</b>	<b>60</b>	<b>10</b>	<b>60</b>	<b>90</b>	<b>12</b>	<b>60</b>	<b>90</b>	<b>30</b>		
<b>TOTAL:</b>			<b>960</b>	<b>405</b>	<b>555</b>	<b>90</b>	<b>420</b>	<b>30</b>		<b>390</b>	<b>30</b>	<b>150</b>	<b>30</b>				
<b>TOTAL</b>							<b>960</b>										

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(pieczęć i podpis Dziekana)