

**EAC**

**PLAN OF STUDIES STRUCTURE IN HOURLY LAYOUT**

h\sem.	I	II	III	IV	V	VI	VII
28							
27							
26							
25							
24							
23							
22							
21							
20							
19							
18							
17	Metrology 11200 <b>ECEA00001</b>	Object oriented programming 20200 E <b>ECEA17004</b>	Electronic Technology 20200 <b>ECEA00006</b>	Programming Systems and Environments 20200 <b>ECEA00010</b>	Optional course 1  15h	Optional course 2  15h	Final project 12h  <b>ECEA17100</b>
16			Scientific and engineering programming 20200 <b>ECEA00007</b>	Fundamentals of Telecommunication 20200 <b>ECEA00021</b>			Internship  <b>ECEP16001Q</b>
15			System Theory 11000 <b>ECEA00008</b>		<b>ECEA19001BK</b>	<b>ECEA00002BK</b>	
14	Introduction to Programming 20300 <b>ECEA20300</b>	Math - Analysis 22000 E <b>MAT001510</b>	Physics for electronics 22000 <b>ECEA00014</b>	Introduction to Microcontrollers 21300 E <b>ECEA00022</b>			Diploma Seminar 00002 <b>ECEA17105</b>
13							
12							
11							
10							
9	Math - Algebra 22000 E <b>MAT001654</b>	Math for Electronics 22000 <b>MAT001512</b>	Foreign language 00400 <b>JZL100928</b>	Introduction to Automation 20100 <b>ECEA00019</b>	Computer Networks 20200 <b>ECEA00101</b>	Electroacoustics 20200 <b>ECEA00103</b>	Optional course 3 6h <b>ECEA00003BK</b>
8							
7							
6							
5	Math - Analysis 22000 E <b>MAT001653</b>	Physics 20200 E <b>FZP001127</b>	Sport 2h <b>JZL100927</b>	Introduction to Robotics 20100 <b>ECEA00020</b>	Microcontrollers 20210 E <b>ECEA19202</b>	Team and preengineering project 00030 <b>ECEA00106</b>	Copyright 20000 <b>PRZ000339</b>
4							
3							
2	Philosophy 20000 <b>FLEA100</b>	Foreign language 00400 <b>JZL100927</b>	Sport 2h WFW03000				Entrepreneurship 20000 <b>ZMZ001048</b>
1							

**ECEA00001B) Optional course 1**

ECEA00201	Advanced Topic and Robotics	20021
ECEA00102	Digital Signal Processnig	20210
ECEA00203	Artificial Intelligence and Computer Vision	20210
ECEA00204	Optoelectronics	20021
ECEA00205	Wireless Systems	30200

**ECEA00002B) Optional course 2**

ECEA00206	Control Systems Engineering	20210
ECEA00207	Embedded Systems	20210
ECEA00208	Real Time Operating Systems	20030
ECEA00209	Lasers, Fibers and Applications	20201
ECEA00210	Telecommuniacion Systems...	20201

**ECEA00003B) Optional course 3**

ECEA00211	Practical Electronics	20100
ECEA00212	Medical Electronics	20001
ECEA00213	Fibre Optic Technology	20100
ECEA00214	Electronic of Renewable Energy Sources	20001
ECEA00215	Satellite Communication Network	20001
ECEA00216	Virtualization and Cloud Computing	10200
ECEA00217	Machine Learnigng	10020
<b>ECEA00222</b>	<b>Selected Topics in Artificial Intelligence</b>	<b>10200</b>
ECEA00219	Hybrid Telecommunication Networks	10101
ECEA00220	Ultrasonic Technology	10200
ECEA00221	Speech communication	10200

Chairman of programme board  
of main field of study

Dean

.....  
prof. dr hab. inż. Krzysztof Tchoń

.....  
prof. dr hab. inż. Czesław Smutnicki

**EAC**

**PLAN OF STUDIES STRUCTURE IN POINT LAYOUT**

h/sem.	I	II	III	IV	V	VI	VII
30	Metrology 4	Electronics 33200 8	Electronic components and sensors 8	Electronic circuits 7	Optional course 1 21	Optonal course 2 21	Final project 12
29							
28							
27							
26	Introduction to Programming 8	Object oriented programming 5	Electronic Technology 5	Programming Systems and Environments 4			
25							
24							
23							
22							
21							
20							
19							
18	Math - Algebra 8	Physics 6	Scienific and engineering programming 5	Fundamentals of Telecommunication 4	Computer Networks 4	Electroacoustics 4	Intership 6
17							
16							
15							
14							
13							
12							
11	Math - Analysis 1 8	Math - Analysis 5	System Theory 3	Introduction to Microcontrollers 8	Microcontrollers 5	Teem and preengineering project 5	Diploma Seminar 3
10							
9							
8							
7							
6							
5							
4							
3							
2	Philosophy 2	Foreign language 2	Foreign language 3	Introduction to Robotics 3	Optional course 3 6	Author Law 2	Optional course 3 6
1							
1							

Chaiman of programme board  
of main field of study

Dean

.....  
 prof. dr hab. inż. Krzysztof Tchoń

.....  
 prof. dr hab. inż. Czesław Smutnicki