

Plan studiów na kierunku **Mechatronics, I stopień, studia stacjonarne**

Specjalność: **Mechatronics Devices and Systems**

Semestr 1

Skrót	Nazwa przedmiotu	Rygor	ECTS	W	C	L	P	
PHE1	Physical Education and Sports	zal.	0		30			
HES1	HES1/Patents and Intellectual Property	zal.	2	30				
ELEC1/OPA	Elective Lecture 1/Optics and Photonics Applications	zal.	3	30		15		
CAL1	Calculus I	E	7	30	45			
ALG	Algebra and Geometry	zal.	4	15	30			
ENG	Engineering Graphics	zal.	2	15	30			
MAT	Materials	zal.	2	30				
CS1	Computer Science I	zal.	6	30	30			
EPH	Engineering Physics	E	4	30	30			
				30	210	195	15	0

Semestr 2

Skrót	Nazwa przedmiotu	Rygor	ECTS	W	C	L	P	
PHE2	Physical Education and Sports	zal.	0		30			
HES2	HES2/ Economics	zal.	2	30				
ELEC2	Elective Lecture 2/Virtual and Augmented Reality	zal.	3	30				
CAL2	Calculus II	E	5	30	30			
ENGCad	Engineering Graphics - CAD	zal.	2				30	
CS2	Computer Science II	zal.	3	15	15			
MCH	Mechanics	E	6	45	30	15		
MTR	Metrology	zal.	4	30		30		
EPHL	Engineering Physics Lab	zal.	2			15		
ELC1	Electric Circuits I	E	3	30	15			
				30	210	120	60	30

Semestr 3

Skrót	Nazwa przedmiotu	Rygor	ECTS	W	C	L	P	
PHE3	Physical Education and Sports	zal.	0		30			
FOL1	Foreign Language	zal.	4		60			
ELEC3	Elective Lecture 3/Nanotechnologies and Nanomaterials	zal.	2	30				
MOS1	Mechanics of Structures I	E	4	30	15			
CAL3	Calculus III	E	6	15	30			
MNT1	Manufacturing Technology I	zal.	4	30			30	
FMD1	Fine Machine Design I	zal.	3	15			30	
ELC2	Electric Circuits II	zal.	3			30		
BAC1	Basics of Automation and Control I	E	4	30		15		
				30	150	135	45	60

Semestr 4

Skrót	Nazwa przedmiotu	Rygor	ECTS	W	C	L	P	
FOL2	Foreign Language	zal.	4		60			
ELEC4	Elective Lecture 4	zal.	2	30				
HES3	HES 3/ Entrepreneurship	zal.	3	30				
OMCS	Optomechanics	zal.	4	30		15		
ELT1	Electronics	E	4	30	15	15		
FMD2	Fine Machine Design II	E	4	30		15	15	
MNT2	Manufacturing Technology II	zal.	2			30		
MOS2	Mechanics of Structures II	zal.	4	15	30		15	
GDT	Geometric dimensioning and tolerancing	zal.	3	15	15		15	
				30	180	120	75	45

Semestr 5

Skrót	Nazwa przedmiotu	Rygor	ECTS	W	C	L	P	
FOL3	Foreign Language	zal.	4		60			
ROB	Robotics	zal.	3	30		15		
EMTR	Electric Metrology	zal.	2	30				
FLM	Fluid Mechanics	zal.	3	30		15		
FMD3	Fine Machine Design III	zal.	3	15			30	
IAD	Industrial automata and devices	E	4	30			15	
MPR	Matlab programming	zal.	2	15			15	
3DCA	3D CAD applications	zal.	2		30			
MDR	Mechatronic Drives	E	5	30		15	15	
ELEC4	Elective lecture 4	zal.	2	30				
				30	210	90	45	75

Semestr 6

Skrót	Nazwa przedmiotu	Rygor	ECTS	W	C	L	P	
TMM	Theory of Machines and Mechanism	E	3	15			15	
MCR	Microcontrollers	E	4	30		30		
SEMD	Sensors and Measuring devices	E	5	45		15	15	
DEM	Design of electronic modules	zal.	2	15		15	15	
IDS	Industrial Diagnostic systems	zal.	2	15		15		
ANS	ANSYS	zal.	2	15			15	
SMD	Simulations in mechatronic design	zal.	3	15		30		
LVI	LabView	zal.	2		30			
MDE	Multimedia devices	zal.	3	15		15		
MMS	MEMS	zal.	2	30				
EMTRL	Electric Metrology	zal.	2			15		
				30	195	30	135	60

Semestr 7

Skrót	Nazwa przedmiotu	Rygor	ECTS	W	C	L	P
ELEC5	Elective Lecture 5	zal.	2	30			
IDE	Industrial Design	zal.	3	15			15
MVI	Machine vision	zal.	3	15		15	15
MWO	Mechatronic Workshop*	zal.	5				75
DS.	Diploma seminar	zal.	2		30		
SD	Diploma thesis	E	15				
			30	60	30	15	105