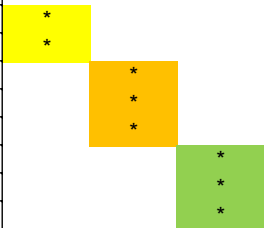


LUBLIN UNIVERSITY OF TECHNOLOGY
Faculty of Electrical Engineering and Computer Science

Full-time
Specialty
Software Engineering (SE)

No.	Course code	Course	Semester															Total													
			V					VI					VII					Hours	ECTS												
			L	C	L	P	E	ECTS	L	C	L	P	E	ECTS	L	C	L			P	E	ECTS									
1	IIS5.SE.1	Advanced Object-Oriented Programming (C++)	2	2		E	4																	60	4						
2	IIS5.SE.2	Web Application Programming	2	2		E	4																		60	4					
3	IIS5.SE.3	Advanced Software Engineering	2	2		E	4																		60	4					
4	IIS5.SE.4	Programming in SWIFT Language	2	2		E	4																		60	4					
5	IIS6.SE.1	SQL and NoSQL Database Management						2	2																3	60	3				
6	IIS6.SE.2	Systems Integration						2	2																	3	60	3			
7	IIS6.SE.3	Programming Frameworks in Web Applications						2	2		E															5	60	5			
8	IIS6.SE.4	Application Development in Cloud Computing						2	2		E																5	60	5		
9	IIS6.SE.5	Programming Mobile Application for the iOS Platform						2	2		E																	5	60	5	
10	IIS6.SE.6	Programming Mobile Application for the Android platform						2	2		E																		5	60	5
11	IIS6.SE.7	Human-Computer Interaction						2	2																				3	60	3
12	IIS7.SE.1	Advanced Programming in Java															2	2											3	60	3
13	IIS7.SE.2	Architecture and Programming in .NET															2	2											3	60	3
14	IIS7.SE.3	Data Warehouses and Mining															2	2											3	60	3
15	IIS7.SE.4	Software Development Processes															2	2											3	60	3
16	IIS7.SE.5	Software Development Project Management															2	2											3	60	3
17	IIS7.SE.6	Software Maintenance and Development															2	2											3	60	3
18	IIS7.SE.7	Computerization of Enterprises															2	2											3	60	3
19	IIS7.SE.8	Operation Research															2	2											3	60	3
20	IIS7.SE.9	Component Approach to Application Development															2	2											3	60	3

Elective courses



*one to choose from each group

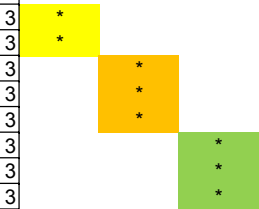
No.	Course code	Course	Semester												Total			
			V				VI				VII				Hours	ECTS		
			L	C	L	P	L	C	L	P	L	C	L	P				
1	IIS5.CE.1	Basics of Digital Telecommunication	2	2	E	4											60	4
2	IIS5.CE.2	Granular Processing in Computer Systems	2	2	E	4											60	4
3	IIS5.CE.3	Intelligent Computing Techniques	2	2	E	4											60	4
4	IIS5.CE.4	Hardware Architecture of Embedded Systems	2	2	E	4											60	4
5	IIS6.CE.1	Programming Embedded Microsystem					2	2		3							60	3
6	IIS6.CE.2	Routing basic					2	2		3							60	3
7	IIS6.CE.3	Programmable logic devices					2	2	E	5							60	5
8	IIS6.CE.4	3D Imaging Techniques					2	2	E	5							60	5
9	IIS6.CE.5	Programming VR Graphics System					2	2	E	5							60	5
10	IIS6.CE.6	Computer Control in Wide-Area Systems					2	2	E	5							60	5
11	IIS6.CE.7	Electromagnetic Compatibility in Computer Engineering					2	2		3							60	3
12	IIS7.CE.1	Modeling Information Systems with the Use Hardware Description Language									2	2		3			60	3
13	IIS7.CE.2	Databases - Practical Application									2	2		3			60	3
14	IIS7.CE.3	Computer Network Management									2	2		3			60	3
15	IIS7.CE.4	Programming of Distributed Information Systems									2	2		3			60	3
16	IIS7.CE.5	Internet of Everything									2	2		3			60	3
17	IIS7.CE.6	Programming of IoT Application									2	2		3			60	3
18	IIS7.CE.7	Virtualization Systems									2	2		3			60	3
19	IIS7.CE.8	Information Systems Engineering									2	2		3			60	3
20	IIS7.CE.9	Information Systems Management									2	2		3			60	3

Elective courses

*one to choose from each group

No.	Course code	Course	Semester															Total						
			V					VI					VII					Hours	ECTS					
			L	Cl	Lab	P	E	ECTS	L	Cl	Lab	P	E	ECTS	L	Cl	Lab			P	E	ECTS		
1	IIS5.IIS.1	Engineering of Control Systems	2		2		E	4														60	4	
2	IIS5.IIS.2	Computer Modelling and Simulation	2		2		E	4														60	4	
3	IIS5.IIS.3	Mechatronic Executive Systems	2		2		E	4														60	4	
4	IIS5.IIS.4	Industrial Computer Networks	2		2		E	4														60	4	
5	IIS6.IIS.1	Computer Control and Measurement Systems							2		2											3	60	3
6	IIS6.IIS.2	Intelligent Microcontrollers and Microsensors							2		2											3	60	3
7	IIS6.IIS.3	Programmable Logic Controllers							2		2		E									5	60	5
8	IIS6.IIS.4	Computer Control and Supervision Systems							2		2		E									5	60	5
9	IIS6.IIS.5	Machine Vision Systems							2		2		E									5	60	5
10	IIS6.IIS.6	Fibre Optic Technology							2		2		E									5	60	5
11	IIS6.IIS.7	Real-Time Systems							2		2											3	60	3
12	IIS7.IIS.1	Basics of Robotics													2		2					3	60	3
13	IIS7.IIS.2	Rapid Prototyping of Executive Systems													2		2					3	60	3
14	IIS7.IIS.3	Control Algorithms for Executive Systems													2		2					3	60	3
15	IIS7.IIS.4	Augmented and Virtual Reality in Industrial Applications													2		2					3	60	3
16	IIS7.IIS.5	Information Project Management													2		2					3	60	3
17	IIS7.IIS.6	Reverse Engineering													2		2					3	60	3
18	IIS7.IIS.7	Databases - practical applications													2		2					3	60	3
19	IIS7.IIS.8	Data Analysis													2		2					3	60	3
20	IIS7.IIS.9	Electromagnetic Compatibility in the Internet of Things													2		2					3	60	3

Elective courses



*one to choose from each group