

## COURSE CATALOGUE

### WARSAW SCHOOL OF INFORMATION TECHNOLOGY

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, I YEAR, I SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	PR	SE	
1.	Algebra	16	24					5
2.	Calculus 1	16	24					5
3.	Structure and Analysis of Algorithms	16	8					4
4.	Philosophy	16						3
5.	Foreign Language 1		16					2
6.	Office Applications 1			24				2
7.	Fundamentals of Economics	16						3
8.	Fundamentals of Digital Logic	16	8					4
9.	Introduction to Networking	1						0
10.	Industrial Safety Training	4						0
11.	Mathematics – compensatory courses		32					0
<b>Total amount of hours:</b>		<b>101</b>	<b>112</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, PR – project, SE – seminar

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, I YEAR, II SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	PR	SE	
1.	Calculus 2	16	16					5
2.	Foundations of Law	16						2
3.	Foreign Language 2		16					2
4.	Office Applications 2			24				2
5.	Computer Organization and Architecture	24						4
6.	Fundamentals of Economics 2	16						3
7.	Fundamentals of Mathematics	16	16					5
8.	Basics of Programming	16		24				5
9.	Mathematics – compensatory courses		24		8			4
<b>Total amount of hours:</b>		<b>104</b>	<b>72</b>	<b>48</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>32</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, PR – project, SE – seminar

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, II YEAR, III SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	PR	SE	
1.	Databases 1	16		16				4
2.	Physics 1	16						2
3.	Foreign Language 3		16					2
4.	Discrete Mathematics	16	16					5
5.	Object-oriented Programming 1	10		16				4
6.	Probability and Statistics	16	16					5
7.	Operating Systems 1	16		24				5
<b>Total amount of hours:</b>		<b>90</b>	<b>48</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, PR – project, SE – seminar

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, II YEAR, IV SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	AT	SE	
1.	Databases 2	16		16				4
2.	Physics 2	16						2
3.	Graphs and Networks	16	16					5
4.	Foreign Language 4		16					2
5.	Object-oriented Programming 2	6		8		24		3
6.	Statistical Methods of Decision Making	16		16				4
7.	Operating Systems 2	16		16				5
8.	Introduction to the Web			16				2
<b>Total amount of hours:</b>		<b>86</b>	<b>32</b>	<b>72</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>27</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, AT – atelier, SE – seminar

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, III YEAR, V SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	PR	SE	
1.	Algorithms and Data Structures 1	16						3
2.	Operation Research	16	8	12				4
3.	Databases 3	16						3
4.	Software Engineering	32						4
5.	Foreign Language 5		16					2
6.	PL/SQL			16				3
7.	XML			16				2
8.	Laboratory of Software Engineering 1			16				2
9.	Fundamentals of Telecommunication	16						3
10.	Network Programming	8		16				3
11.	Networks and Distributed Systems	16		16				5
<b>Total amount of hours:</b>		<b>120</b>	<b>24</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, PR – project, SE – seminar

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, III YEAR, VI SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	PR	SE	
1.	Algorithms and Data Structures 2	16		16				5
2.	Databases 4	16						3
3.	Databases in Object-oriented Programming (additional)			16				2
4.	Web Databases 1			16				2
5.	Java Programming	16		16				4
6.	Foreign Language 6		16					2
7.	Laboratory of Software Engineering 2			16				2
8.	Apprenticeship							2
9.	Client-server Application Programming	8		16				3
10.	Image Processing	16		16				4
11.	Computer Networks	16		16				5
12.	Building Database Applications 1			16				3
13.	Introduction to Cryptology	16	16					5
14.	IT Project Management	16		8				3
<b>Total amount of hours:</b>		<b>120</b>	<b>32</b>	<b>152</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, PR – project, SE – seminar

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, IV YEAR, VII SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	PR	SE	
1.	Oracle Database Administration	16		16				5
2.	Algorithms for Image Processing	8		16				4
3.	Computer System Security	16		8				4
4.	English Language – Fianal Exam		3					0
5.	Digital Electronics	16						3
6.	Data Warehouses			24				4
7.	Foreign Language 7		16					2
8.	Modelin6 and Generating of Database Applications			16				3
9.	Intellectual Property Protection	16						2
10.	Internet Application Programming			32				4
11.	Low-level Programming 1			12				2
12.	Digital Technology	16		16				5
13.	Building Database Applications 2			16				3
14.	Active Elements of Computer Networks	16		16				5
15.	Computer Network Administration	16		16				5
<b>Total amount of hours:</b>		<b>120</b>	<b>19</b>	<b>188</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, PR – project, SE – seminar

COMPUTER SCIENCE, FIRST CYCLE (ENGINEER), PART-TIME, IV YEAR, VIII SEMESTER

No.	Name of Subjects	Contact hours						ECTS
		LE	CL	LA	TU	PR	SE	
1.	Linux System Administration			24				3
2.	Intelligent Computing Systems	16						3
3.	Analysis of Low-level Code	14		16				3
4.	Structured Wiring Systems			24				2
5.	Basics of Programming for the Android Platform			16				2
6.	Engineer Dissertation 1 <sup>st</sup> level					240		15
7.	Object-oriented Programming in Java	8		24				3
8.	Dissertation Seminar 1 <sup>st</sup>						14	2
9.	Oracle Database Administration	16		16				2
<b>Total amount of hours:</b>		<b>54</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>240</b>	<b>14</b>	<b>35</b>

LE – lectures, CL – classes, LA – laboratories, TU – tutoring, PR – project, SE – seminar