PROGRAM STUDIÓW STACJONARNYCH DRUGIEGO STOPNIA
rok akademicki 2020/21

year / semester	Course	Code	lect.	class/lab.	xam/Cred	ECTS
I / lato	Database Management**	ZBD	26	26	**EZ**	5
	Data Integration And Data Warehouses**	IDH	26	26	**EZ**	5
	Cloud Platforms and Technologies**	TPC	26	26	**EZ**	5
	Linguistic Engineering**	INL	26	26	**EZ**	5
	Graphs and their Applications**	GIZ	26	26	**EZ**	5
	Diploma Seminar	SEM1	26	0	**Z**	4
	Block course****	/	20		**Z**	2
	Foreign language	LEK	0	26	**Z**	3
			280		**h**	**29**
I / zima	Setting up IT Startups	TSI	26	26	**Z**	4
	Project Management*	ZPRO	26	26	**EZ**	5
	Digital Signal and Image Processing*	PSO	26	26	**EZ**	5
	Mobile Wireless Systems*	SMB	26	26	**EZ**	5
	NoSQL Databases and Advanced Programming*	NBD	26	26	**EZ**	5
	Advanced Modeling and Analysis of Information Systems*	ZMA	26	26	**EZ**	5
	Diploma Seminar	SEM2	26	13	**Z**	3
	Puzzle Based Learning (online course)	PUZ	0	26int	**Z**	2
	Block course****	/	20		**Z**	2
	Foreign language	LEK	0	26	**Z**	3
			319		**h**	**29**
II / 3	AI Ethics	ESI	26int	0	**EZ**	**5**
	Big Data Processing and Analytics***	ADD	26	26	**EZ**	5
	Business Process Modeling and Management***	MZP	26	26	**EZ**	5
	Advanced Methods in Computer Security***	ZMI	26	26	**EZ**	5
	Diploma Seminar	SEM3	26	26	**Z**	15
	Block course****	/	20		**Z**	2
	Foreign language	LEK	0	26	**Z**	3
			228		**h**	**35**
	Block courses					
1	Service-Oriented Network Systems	SSU	20	0	**Z**	2
2	Software Engineering	INN	20	0	**Z**	2
3	Advanced Multimedia Techniques	ZTM	4	16	**Z**	2
4	Neural Computing	MKR	20	0	**Z**	2
5	Knowledge systems	SWI	20	0	**Z**	2
6	Digital Image Processing: Algorithms and Applications	CPO	20	0	**Z**	2
7	Wavelet Analysis: Theory and Applications	AFA	20	0	**Z**	2

Łącznie godzin wymaganych: 827 h
Łącznie ECTS wymaganych: 93

* : From among the courses marked with (*) three courses must be elected in the 1st year's winter semester

** : In 1st year's summer semester four courses marked (**) must be elected

*** : Two courses marked (***) need to be elected in semester 3

(in semester 2 and semester 3 the choice should match the student's chosen specialization as agreed with the master's thesis supervisor)

**** : The block courses are usually performed as 5-days-long intensive tracks. In total three such courses need to be completed during the whole study (by default one at each semester)