

## **PLAN OF STUDIES**

**FACULTY:** Faculty of Management

**MAIN FIELD OF STUDY:** Business Engineering

**EDUCATION LEVEL:** second-level studies

**FORM OF STUDIES:** full-time studies

**PROFILE:** general academic

**SPECIALIZATION:** Business Intelligence

**LANGUAGE OF STUDY:** English

In effect since educational cycle 2021/2022

### Plan of studies structure (optionally)

1) in ECTS point layout

23		Foreign language (B2+) (1)		23
22		Diploma seminar I (BI Day) (1)		22
21		Diploma seminar II (2)		21
20	Physics of complex systems (4)	Games and decisions in management (4)		20
19				19
18	Descriptive analytics (7)	Digital marketing and social media (4)	Foreign language (A1 or A2) (2)	18
17				17
16				16
15	Business simulations (6)	Project management (6)	MsC Thesis (15)	15
14				14
13				13
12				12
11	Creative and design thinking workshop (2)	Visual analytics (3)	Business module (2)	11
10				10
9	Contemporary management (2)	Web scraping and analysis (3)	Social competences module (2)	9
8				8
7				7
6	Contemporary economics (3)	Predictive analytics (6)	Cloud computing services (4)	6
5				5
4	Business intelligence workplace (6)	Prescriptive analytics (5)		4
3				3
2				2

<sup>1</sup>BU – number of ECTS points assigned to hours of classes requiring direct participation of academic teachers and other persons conducting classes

<sup>2</sup>Traditional – enter T, remote – enter Z

<sup>3</sup>Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

<sup>4</sup>University-wide course /group of courses – enter O

<sup>5</sup>DN - number of ECTS points assigned to the classes related to the University's academic activity in the discipline/disciplines to which the main field of study is assigned

<sup>6</sup>Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

<sup>7</sup>KO – general education courses, PD – basic sciences courses, K – main field of study courses, S – specialization courses

1				1
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2) in hourly layout

23		Foreign language (B2+) (01000)		23
22		Diploma seminar I (BI Day) (00001)		22
21		Diploma seminar II (00001)		21
20	Physics of complex systems (10100)	Games and decisions in management (20200)		20
19				19
18	Descriptive analytics (20200)	Digital marketing and social media (10210)	Foreign language (A1 or A2) (03000)	18
17				17
16				16
15				15
14	Business simulations (10210)	Project management (10210)	MsC Thesis (00040)	14
13				13
12				12
11	Creative and design thinking workshop (00020)		Business module (10010)	11
10				10
9	Contemporary management (00002)	Visual analytics (10100)	Social competences module (00002)	9
8				8
7				7
6	Contemporary economics (10010)	Web scraping and analysis (10100)	Cloud computing services (00101)	6
5				5
4	Business intelligence workplace (10210)	Predictive analytics (20200)	Prescriptive analytics (20200)	4
3				3

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2				2
1				1

## 1. Set of obligatory and optional courses and groups of courses in semestral arrangement

### Semester 1

#### Obligatory courses / groups of courses Number of ECTS points 24

No.	Course/ group of courses code	Name of course/group of courses (denote group of courses with symbol <b>GK</b> )	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form <sup>2</sup> of course/group of courses	Way <sup>3</sup> of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN <sup>5</sup> classes	BU <sup>1</sup> classes			University- wide <sup>4</sup>	Concerning scientific activities <sup>5</sup>	Practical <sup>6</sup>	Type <sup>7</sup>
1.	IZZ2000P	Creative and design thinking workshop					2	K2_IZ_W9 U10,11,18,22,23 K1-7	30	60	2	2	2,1	T	Z		DN	P	K
2.	FZZ2515W1	Physics of complex systems <b>GK</b>	1		1			K2_IZ_W11 U10,11,20,21 K1	30	120	4	4	2,1	lec:T/Z lab:T	Z		DN	P (2)	PD
3.	IZZ2001Lw	Business simulations <b>GK</b>	1		2			K2_IZ_W1 U1,4,5,10,11, K1	45	150	5	5	3,5	lec:T/Z lab:T	Z		DN	P(3)	K
4.	IZZ2001P	Business simulations				1		K2_IZ_W1 U1,4,5,10,11, K1	15	30	1	1	0,7	T	Z		DN	P	K
5.	MAZ2581W	Descriptive analytics	2					K2_IZ_W2,4,5 U2,8-11, K1	30	120	4	4	2,8	T/Z	E		DN		PD
6.	MAZ2581L	Descriptive analytics			2			K2_IZ_W2,4,5 U2,8-11, K1	30	90	3	3	2,1	T	Z		DN	P	PD
7.	EKZ2506Sw	Contemporary economics <b>GK</b>	1				1	K2_IZ_W6,7,9,13,14, U10,11,15,16,18,24,25, K1	30	90	3	3	2,1	lec:T/Z sem:T	Z		DN	P (1)	K
8.	ZMZ2661S	Contemporary management					2	K2_IZ_W6,7,9,13,14, U10,11,15-18,24,25, K1	30	60	2	2	1,4	T	Z		DN	P	K
<b>Total</b>			<b>5</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>3</b>		<b>240</b>	<b>720</b>	<b>24</b>	<b>24</b>	<b>16,8</b>						

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<sup>5</sup>DN - number of ECTS points assigned to the classes related to the University's academic activity in the discipline/disciplines to which the main field of study is assigned

<sup>6</sup>Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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**Optional courses / groups of courses (minimum 60 hours in semester, 6 ECTS points)**

No.	Course/ group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form <sup>2</sup> of course/group of courses	Way <sup>3</sup> of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN <sup>5</sup> classes	BU <sup>1</sup> classes			University- wide <sup>4</sup>	Concerning scientific activities <sup>5</sup>	Practical <sup>6</sup>	Type <sup>7</sup>
1.	IZZ2002Wlp	Business intelligence workplace GK	1		2	1		K2_IZ_W1-3, 5 K2_IZ_U3,9-11 K2_IZ_K1	60	180	6	6	4,2	lec:T/Z lab,pr:T	Z		DN	P (5)	S
<b>Total</b>			<b>1</b>		<b>2</b>	<b>1</b>		<b>60</b>	<b>180</b>	<b>6</b>	<b>6</b>	<b>4,2</b>							

**Altogether in semester**

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Total number of ECTS points for DN classes <sup>5</sup>	Number of ECTS points for BU classes <sup>1</sup>
lec	cl	lab	pr	sem					
6	0	7	5	2	300	900	30	30	21,0

**Semester 2**

**Obligatory courses / groups of courses**

**Number of ECTS points 14**

No.	Course/	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours	Learning effect symbol	Number of hours	Number of ECTS points	Form <sup>2</sup> of course/group of courses	Way <sup>3</sup> of crediting	Course/group of courses
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<sup>1</sup>BU – number of ECTS points assigned to hours of classes requiring direct participation of academic teachers and other persons conducting classes

<sup>2</sup>Traditional – enter T, remote – enter Z

<sup>3</sup>Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

<sup>4</sup>University-wide course /group of courses – enter O

<sup>5</sup>DN - number of ECTS points assigned to the classes related to the University's academic activity in the discipline/disciplines to which the main field of study is assigned

<sup>6</sup>Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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	group of courses code		lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN <sup>5</sup> classes	BU <sup>1</sup> classes			University-wide <sup>4</sup>	Concerning scientific activities <sup>5</sup>	Practical <sup>6</sup>	Type <sup>7</sup>
1.	IZZ2003PwI	Digital marketing and social media <b>GK</b>	1		2	1		K2_IJ_W7,9 U10,11,15, K1	60	120	4	4	2,8	lec:T/Z lab,pr:T	Z		DN	P (3)	K
2.	IZZ2004W	Games and decisions in management	2					K2_IJ_W1,4,5,9,10 U1,5,8-11,26, K1	30	60	2	2	1,4	T/Z	Z		DN		K
3.	IZZ2004L	Games and decisions in management			2			K2_IJ_W1,4,5,9,10 U1,5,8-11,26, K1	30	60	2	2	1,4	T	Z		DN	P	K
4.	ZMZ2662W	Project management	1					K2_IJ_W,8-10,15,16 U10, 11, 17, 19, 22, 27, K1	15	60	2	2	1,4	T/Z	E		DN		K
5.	ZMZ2662L	Project management			2			K2_IJ_W,8-10,15,16 U10, 11, 17, 19, 22, 27, K1	30	60	2	2	1,4	T	Z		DN	P	K
6.	ZMZ2662P	Project management				1		K2_IJ_W,8-10,15,16 U10, 11, 17, 19, 22, 27, K1	15	60	2	2	1,4	T	Z		DN	P	K
<b>Total</b>			<b>4</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>		<b>180</b>	<b>420</b>	<b>14</b>	<b>14</b>	<b>9,8</b>						

### Optional courses / groups of courses (minimum 165 hours in semester, 16 ECTS points)

No.	Course/ group of courses code	Name of course/group of courses (denote group of courses with symbol <b>GK</b> )	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form <sup>2</sup> of course/group of courses	Way <sup>3</sup> of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN <sup>5</sup> classes	BU <sup>1</sup> classes			University-wide <sup>4</sup>	Concerning scientific activities <sup>5</sup>	Practical <sup>6</sup>	Type <sup>7</sup>
1.	MAZ2582W1	Predictive analytics <b>GK</b>	2		2			K2_IJ_W1,4,5 U1,5,8-11,26,K1	60	180	6	6	4,2	lec:T/Z lab:T	E (lec)		DN	P (3)	S
2.	IZZ2005Lw	Visual analytics <b>GK</b>	1		1			K2_IJ_W1-4 U1,2,3,9-11, K1	30	90	3	3	2,1	lec:T/Z lab:T	Z		DN	P (2)	S
3.	IZZ2006Lw	Web scraping and analysis <b>GK</b>	1		1			K2_IJ_W2 U2,6,7,10,11, K1	30	90	3	3	2,1	lec:T/Z lab:T	Z		DN	P (2)	S
4.	IZZ2008S	Diploma seminar I (BI Day)					1	K2_IJ_U10,11,26 K2_IJ_K1,5,6,7	15	30	1	1	0,7	T	Z		DN	P	S
5.	IZZ2009S	Diploma seminar II					1	K2_IJ_U10,11,26 K2_IJ_K1,6,7	15	60	2	2	1,4	T	Z		DN	P	S
6.	JZL	Foreign language (B2+)		1				K2_IJ_U10-14 K2_IJ_K1	15	30	1		0,5	T	Z	O		P	KO

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<sup>4</sup>University-wide course /group of courses – enter O

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	<b>Total</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>2</b>		<b>165</b>	<b>480</b>	<b>16</b>	<b>15</b>	<b>11,0</b>						
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### Altogether in semester

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Total number of ECTS points for DN classes <sup>5</sup>	Number of ECTS points for BU classes <sup>1</sup>
lec	cl	lab	pr	sem					
7	1	11	2	2	345	900	30	29	20,8

### Semester 3

#### Obligatory courses / groups of courses

#### Number of ECTS points 4

No.	Course/ group of courses code	Name of course/group of courses (denote group of courses with symbol <b>GK</b> )	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form <sup>2</sup> of course/group of courses	Way <sup>3</sup> of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN <sup>5</sup> classes	BU <sup>1</sup> classes			University- wide <sup>4</sup>	Concerning scientific activities <sup>5</sup>	Practical <sup>6</sup>	Type <sup>7</sup>
1.	IZZ2007S1	Cloud computing services <b>GK</b>			1		1	K2_IJ_W3 U3,6,10,11, K1	30	120	4	4	2,8	T	Z		DN	P(4)	K
<b>Total</b>					<b>1</b>		<b>1</b>		<b>30</b>	<b>120</b>	<b>4</b>	<b>4</b>	<b>2,8</b>						

#### Optional courses / groups of courses (minimum 225 hours in semester, 26 ECTS points)

No.	Course/		Weekly number of hours		Number of hours	Number of ECTS points	Form <sup>2</sup> of course/group of courses	Way <sup>3</sup> of crediting	Course/group of courses
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<sup>2</sup>Traditional – enter T, remote – enter Z

<sup>3</sup>Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

<sup>4</sup>University-wide course /group of courses – enter O

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	group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	lec	cl	lab	pr	sem	Learning effect symbol	ZZU	CNPS	Total	DN <sup>5</sup> classes	BU <sup>1</sup> classes			University-wide <sup>4</sup>	Concerning scientific activities <sup>5</sup>	Practical <sup>6</sup>	Type <sup>7</sup>
1.	MAZ2583W	Prescriptive analytics	2					K2_IZ_W1,4,5 U1,4,5,8-11,26, K1	30	60	2	2	1,4	T/Z	Z		DN		S
2.	MAZ2583L	Prescriptive analytics			2			K2_IZ_W1,4,5 U1,4,5,8-11,26, K1	30	90	3	3	2,1	T	Z		DN	P	S
3.	IZZ2010D	MsC Thesis				4		K2_IZ_U10,11,26 K2_IZ_K1,6,7	60	450	15	15	10,5	T	Z		DN	P	S
4.	JZL	Foreign language (A1 or A2)		3				K2_IZ_U10-14 K2_IZ_K1	45	60	2		1,5	T	Z	O		P	KO
5.		<b>Social competences module</b>					2		30	60	2	2	1,4	T	Z		DN	P	KO
	PSZ2509S	Business psychology					2	K2_IZ_W12,16 U7,10,11,22,23, K1-5,7	30	60	2	2	1,4	T	Z		DN	P	KO
	PSZ2510S	Leading teams and work groups					2	K2_IZ_W12,16 U7,10,11,22,23 K1-5,7	30	60	2	2	1,4	T	Z		DN	P	KO
6.		Business module	1			1			30	60	2	2	1,4	T	Z		DN	P(1)	KO
	ZMZ2663Wp	Business planning <b>GK</b>	1			1		K2_IZ_W6,7,14 U7,10,11,15-17,24,25 K1	30	60	2	2	1,4	lec:T/Z pr:T	Z		DN	P(1)	KO
	ZMZ2664Pw	Business models in developing environment <b>GK</b>	1			1		K2_IZ_W6,7,14 U10,11,15-18,24,25 K1	30	60	2	2	1,4	lec:T/Z pr:T	Z		DN	P(1)	KO
	ZMZ2665Ws	Corporate Social Responsibility <b>GK</b>	1				1	K2_IZ_W6,7,14 U10,11,15,16,18,24, 25, K1	30	60	2	2	1,4	lec:T/Z sem:T	Z		DN	P(1)	KO
		<b>Total</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>6</b>		<b>225</b>	<b>780</b>	<b>26</b>	<b>24</b>	<b>18,3</b>						

### Altogether in semester

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Total number of ECTS points for DN classes <sup>5</sup>	Number of ECTS points for BU classes <sup>1</sup>
lec	cl	lab	pr	sem					

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3	3	3	5	3	255	900	30	28	21,1
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## 2. Set of examinations in semestral arrangement

Course / group of courses code	Names of courses / groups of courses ending with examination	Semester
MAZ2581W	1.Descriptive analytics	1
MAZ2582W1 ZMZ2662W	1. Predictive analytics <b>GK</b> 2. Project management	2

## 3. Numbers of allowable deficit of ECTS points after particular semesters

Semester	Allowable deficit of ECTS points after semester
1	12
2	12
3	0

Opinion of student government legislative body

13.10.2021

Date

19.10.2021

Date

.....  
*Marek Bartak Bartosik*  
 Name and surname, signature of student representative

.....  
**DZIEKAN**  
 Dean's signature

.....  
*Uotay Man*

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<sup>2</sup>Traditional – enter T, remote – enter Z

<sup>3</sup>Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

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<sup>6</sup>Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

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