

DESCRIPTION OF THE PROGRAM OF STUDIES**Main field of study: Management****Profile: academic****Level of studies: first-level studies****Form of studies: full-time studies****1. General description**

<i>1.1 Number of semesters: 6</i>	<i>1.2 Total number of ECTS points necessary to complete studies at a given level: 180</i>
<i>1.3 Total number of hours: 1965</i>	<i>1.4 Prerequisites (particularly for second-level studies): According to the resolution No. 37/3/2020-2024 of PWiR Senate. from 19 November 2020</i>
<i>1.5 Upon completion of studies graduate obtains professional degree of: bachelor</i>	<i>1.6 Graduate profile, employability: A graduate will be able to set up and organize an enterprise in any given organizational-legal form and formulate alternative solutions to typical problems regarding management and effectiveness within an organization and its individual functional groups. He/she will have the ability to identify, interpret and assess the behavior of employees and apply standard techniques of directing such behavior. He/she will cooperate and work effectively in organizational forms made up of groups and/or teams. He/she will be able to select and create simple software to solve common problems in management. These abilities qualify such a graduate for</i>

	<p>management positions in the following fields: production planning and organization, marketing, logistics, accounts, human resources, organization and management, as well as the implementation of computerized systems in management. A graduate could also manage a small team of workers and, in particular, run their own enterprise.</p>
<p>I.7 Possibility of continuing studies: 2nd level studies</p>	<p><i>1.8 Indicate connection with University's mission and its development strategy:</i></p> <p>Education in Management is conducted in the field of social sciences, however it is directly part of the mission and development strategy of a technical university. Management graduates acquire business, analytical, social and technical competences.</p> <p>The educational program in Management is coherent with the mission of Wrocław University of Science and Technology in the following areas:</p> <ul style="list-style-type: none"> • Developing creative, critical and tolerant graduates, as studying a course in management emphasizes on appropriate skills and attitudes development; • Aiming to provide high quality courses and providing the students of Management and lecturers with conditions enabling open discussion and constructive criticism; • Developing the values and tradition of higher education, wide-ranging cooperation with other universities via students taking part in scientific conferences and the Erasmus program, and with employers via practical learning, carried out in the form of projects in specific organizations;

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

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- Aiming to make an impact on the national and international scene in the area of educating specialists in the field of management, by emphasizing the professionalism and hard skills of graduates.

According to the principle adopted at Wrocław University of Science and Technology, studies in the field of Management have a general academic profile. The program satisfies all the conditions stipulated in current legislation and is also in accordance with the Polish Qualifications Framework in the field of social science.

Our programs in Management has have a unique character. In accordance with the University's strategy, which emphasizes the need to respond to the current needs of the labor market, it demonstrates a natural – in business practice – complementarity of technical science and economics, enriched with the element of computer science.

Due to the regional roots of the University, the educational programs in Management create a framework which ensures that students have systematic contact with enterprises and other institutions during their studies.

In line with the University's development strategy, the quality of education in the didactic offer at the Faculty is systematically improved. This is achieved through the development of our lecturers' research and teaching skills, as well as systematic refurbishment of the department's infrastructure, including modernization of lecture theatres, audio-visual equipment and computer laboratories, and a current software updates.

The program of bachelor studies in management

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develops the theoretical knowledge and practical skills of students, enabling graduates to be highly competitiveness on the employment market. Graduates are able to undertake master studies and carry out their own research. They also are conscious of the need for constant self-development in cooperation with their alma mater.

2. Detailed description

2.1 Total number of learning outcomes in the program of study:

W (knowledge) = 27+10, U (skills) = 17+10, K (competences) = 7, W + U + K = 71

2.2 For the main field of study assigned to more than one discipline - the number of learning outcomes assigned to the discipline:

D1 (major) (this number must be greater than half the total number of learning outcomes)

D2

D3

D4

2.3 For the field of study assigned to more than one discipline - percentage share of the number of ECTS points for each discipline:

D1% ECTS points

D2% ECTS points

D3% ECTS points

D4% ECTS points

2.4a. For the general academic profile field of study – the number of ECTS points assigned to the classes related to the

University's academic activity in the discipline or disciplines to which the faculty is assigned (must be greater than 50% of the total number of ECTS points from 1.1) ..161 ECTS.....

2.4b. For the practical profile field of study - the number of ECTS points assigned to the classes shaping practical skills (must be greater than 50% of the total number of ECTS points from 1.1)

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2.5 Concise analysis of compliance of the assumed learning outcomes with the needs of the labor market

The educational goals of our undergraduate studies satisfy the following needs of employers on the job market:

- The need for employees to have interdisciplinary skills (small and medium-sized enterprises);
- The ability to work independently, but also cooperate with other employees to diagnose problems, as well as propose and implement solutions in specific functional groups within a firm (medium-sized and large enterprises);
- Openness to applying novel management methods and techniques, as well as tools from information technology;
- Flexibility and openness to innovations: entering new professions – according to the website pracuj.pl - e.g. analysts of investment processes, e-business specialists (e-marketers and e-architects), project management.

„Traditional” specialists in the field of marketing, finance, human resources, production management, logistics and IT are still in high demand on the employment market. However, they must be highly skilled, both technically and socially, in order to satisfy the demands of employers described above. Our program of undergraduate studies in Management, together with the experience of the teaching staff, create the conditions for students to develop these skills through their studies.

2.6. The total number of ECTS points that a student must obtain in classes requiring direct participation of academic teachers or other persons conducting classes and students (enter the sum of ECTS points for courses / groups of courses marked with the BU¹ code) ...98,1.... ECTS

2.7. Total number of ECTS points, which student has to obtain from basic sciences classes

Number of ECTS points for obligatory subjects	25
Number of ECTS points for optional subjects	0
Total number of ECTS points	25

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2.8. Total number of ECTS points, which student has to obtain from practical classes, including laboratory classes (enter total number of ECTS points for courses/group of courses denoted with code P)

Number of ECTS points for obligatory subjects	53
Number of ECTS points for optional subjects	40
Total number of ECTS points	93

2.9. Minimum number of ECTS points, which student has to obtain doing education blocks offered as part of university-wide classes or other main field of study (enter number of ECTS points for courses/groups of courses denoted with code OG)

5..... ECTS points

2.10. Total number of ECTS points, which student may obtain doing optional blocks (min. 30% of total number of ECTS points)

54..... ECTS points

3. Description of the process leading to learning outcomes acquisition:

The process leading to achievement of the assumed learning outcomes for the main field of studies includes active participation in the classes organized at the university: lectures, classes, laboratories, projects and seminars, as well as self-studies enabling consolidation, supplementation and extension of knowledge. The educational program create a framework which ensures that student has systematic contact with enterprises and other institutions during studies. If necessary, the student may use individual consultations. Learning outcomes in terms of skills are further developed during obligatory student training program. The student may also engage in the activities of academic associations, take part in research projects carried out at the faculty and at the university, and participate in student exchange programmes with partner universities all over the world.

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4. List of education blocks:

4.1. List of obligatory blocks:

4.1.1 List of general education blocks

4.1.1.1 Liberal-managerial subjects block (min.3... 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses		
			lec	cl	lab	pr		se m	ZZ	U	Total	DN ⁵ classes			BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵
1	PSZ1119W	Psychology	2					30	30	1	1,4	T	Z		DN		KO
2	SCZ1120W	Sociology	2					30	50	2	1,4	T	Z		DN		KO
		Total	4	0	0	0	2	60	80	3	2,8						

4.1.1.2 Foreign languages block (min. 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses		
			lec	cl	lab	pr		sem	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵
		Total															

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4.1.1.3 Sporting classes block (0 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses			
		lec	cl	lab	pr	sem	ZZU	CNPS		Total	DN ⁵ classes	BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵			Practical ⁶	Type ⁷		
Total																				

4.1.1.4 Information technologies block (min. 4... 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses					
		lec	cl	lab	pr	sem	ZZU	CNPS		Total	DN ⁵ classes	BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵			Practical ⁶	Type ⁷				
1	IEZ1148W	2							KL_ZARZ_W24 KL_ZARZ_W25	30	60	2	2	1,4	T	Z			DN		K	
2	IEZ1148L		1						KL_ZARZ_U12 KL_ZARZ_K02	15	60	2	2	0,7	T	Z			DN	P	K	
Total		2	0	1	0	0				45	120	4	4	2,1								

Altogether for general education blocks

Total number of hours				Total number of ZZU hours	Total number of ECTS points	Total number of ECTS points for DN classes ¹	Total number of ECTS points for BU classes ¹
lec	cl	lab	pr	sem			
6	0	1	0	2	105	7	4,9

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4.1.2 List of basic sciences blocks

4.1.2.1 Mathematics block

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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶	Type ⁷
1	MAZ1130W	Descriptive statistics	2						30	120	4	4	1,4	T	E		DN		PD
2	MAZ1130C	Descriptive statistics	1						15	60	2	2	0,7	T	Z		DN	P	PD
3	MAZ1146W	Mathematical Economics	2						30	120	4	4	1,4	T	E		DN		PD
4	MAZ1146C	Mathematical Economics	1						15	60	2	2	0,7	T	Z		DN	P	PD
5	MAT1448	Matematyka (GK)	2	2					60	270	9		7,0	T	E			O	PD
		Total	6	4	0	0	0	0	150	630	21	12	11,2						

4.1.2.2 Physics block

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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr	sem		ZZU	CNPS	Total	DN ⁵ classes	BU ¹ classes			University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶	Type ⁷
1	FZZ2503W	Work environment physics	2						30	50	2	2	1,4	T	Z		DN		PD
2	FZZ2503C	Work environment physics	1						15	30	1	1	0,7	T	Z		DN	P	PD

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4.1.3 List of main-field-of-study blocks

4.1.3.1 Obligatory main-field-of-study blocks

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 ² of course/group of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr		sem	ZZU	CNPS	total	DN ⁵ classes			BU classes ¹	University-wide ⁴	Concerning scientific activities ⁵	Practical ⁶
1	PRZ1121W	Civil and commercial law	2					30	60	2		1,4	T	Z		DN		K
2	PRZ1121C	Civil and commercial law		1				15	60	2		0,7	T	Z		DN	P	K
3	FBZ1152W	Corporate finance	2					30	90	3		1,4	T	E		DN		K
4	FBZ1152C	Corporate finance		1				15	60	2		0,7	T	Z		DN	P	K
5	FBZ1150W	Essentials of finance	2					30	60	2		1,4	T	Z		DN		K
6	ZMZ1242W	Essentials of management	2					30	120	4		1,4	T	E		DN		K
7	ZMZ1242C	Essentials of management		2				30	60	2		1,4	T	Z		DN	P	K
8	FBZ1233W	Financial analysis supported by computer	1					15	30	1		0,7	T	Z		DN		K
9	FBZ1233L	Financial analysis supported by computer		1				15	60	2		0,7	T	Z		DN	P	K
10	FBZ1153	Financial management	2					30	60	2		1,4	T	Z		DN		K

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11	FBZ1153C	Financial management	1					15	30	1	1	0,7	T	Z		DN	P	K
12	ZMZ1247W	Logistics	1					15	30	1	1	0,7	T	Z		DN		K
13	ZMZ1247C	Logistics	1					15	30	1	1	0,7	T	Z		DN	P	K
14	EKZ1182W	Macroeconomics	2					30	120	4	4	1,4	T	E		DN		K
15	EKZ1182C	Macroeconomics	1					15	60	2	2	0,7	T	Z		DN	P	K
16	IEZ1242W	Information Systems in Management	2					30	60	2	2	1,4	T	Z		DN		K
17	IEZ1242L	Information Systems in Management				1		15	60	2	2	0,7	T	Z		DN	P	K
18	ZMZ1257L	Management training				2		30	60	2	2	1,4	T	Z		DN	P	K
19	ZMZ1248W	Marketing management	1					15	30	1	1	0,7	T	Z		DN		K
20	ZMZ1248C	Marketing management	1					15	30	1	1	0,7	T	Z		DN	P	K
21	ZMZ1655W	Marketing research	2					30	60	2	2	1,4	T	Z		DN		K
22	ZMZ1655C	Marketing research	2					30	60	2	2	1,4	T	Z		DN	P	K
23	EKZ1127W	Microeconomics	2					30	120	4	4	1,4	T	E		DN		K
24	EKZ1127C	Microeconomics	2					30	60	2	2	1,4	T	Z		DN	P	K

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25	ZMZ1249W	Operations management	1							60	2	2	0,7	T	E				DN			K
										15												
27	ZMZ1249C	Operations management		1						30	1	1	0,7	T	Z				DN		P	K
										15												
28	ZMZ1249L	Operations management					1			30	1	1	0,7	T	Z				DN		P	K
										15												
29	ZMZ1245W	Organizational behaviour						2		60	2	2	1,4	T	Z				DN			K
30	ZMZ1245C	Organizational behaviour				1				60	2	2	0,7	T	Z				DN			K
31	ZMZ1243W	Organizational science						2		60	2	2	1,4	T	Z				DN			K
32	ZMZ1243C	Organizational science				1				30	1	1	0,7	T	Z				DN		P	K
										15												
33	ZMZ1258W	Business Process Management						2		60	2	2	1,4	T	Z				DN			K
34	ZMZ1255W	Total quality management						2		90	3	3	1,4	T	E				DN			K
35	ZMZ1255C	Total quality management						2		60	2	2	1,4	T	Z				DN		P	K
										780	67	67	36,4									
										2010	67	67	36,4									

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4.1.3.2 block

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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr		sem	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	University -Wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶
		Total																

Altogether (for main-field-of-study blocks):

Total number of hours						Total number of ECTS points for BU classes ¹
Total number of ZZU hours		Total number of ECTS points	Total number of ECTS points for DN classes ⁵			
lec	30					
cl	17					
lab	5					
pr	2					
sem	0					
	780	2010	67			36,4

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4.2 List of optional blocks

4.2.1 List of general education blocks

4.2.1.1 Liberal-managerial subjects blocks (min. 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses		
			lec	cl	lab	pr		se m	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	Universi ty-wide ⁴	Concerning scientific activities ⁵
1		Social competences module						30	75	3	1,4	T	Z		DN	P	KO
	PSZ1181S	Communication in management						30	75	3	1,4	T	Z		DN	P	KO
	SCZ1118S	Management of own potential						30	75	3	1,4	T	Z		DN	P	KO
		Total						30	75	3	1,4						

4.2.1.2 Foreign languages block (min. 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses		
			lec	cl	lab	pr		se m	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	Universi ty-wide ⁴	Concerning scientific activities ⁵
1	JZL	Foreign language B2.1	4					60	60	2	2,0	T	Z	O	DN	P	KO
2	JZL	Foreign language B2.2	4					60	90	3	2,0	T	Z	O	DN	P	KO
		Total	0	8	0	0		120	150	5	4,0						

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

²Traditional – enter T, remote – enter Z

³Exam – 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)

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

⁵DN - 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

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

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

4.2.1.3 Sporting classes block (0. ECTS points):

No.	Course/ group of courses code	Weekly number of hours				Learning effect symbol	Number of hours		Number of ECTS points			Form ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses				
		lec	cl	lab	pr		sem	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶	Type ⁷
1	WFW	2																
	Sport activities	2																
2	WFW	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sport activities	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																	

4.2.1.4 Information technologies block (min. ECTS points):

No.	Course/ group of courses code	Weekly number of hours				Learning effect symbol	Number of hours		Number of ECTS points			Form ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses				
		lec	cl	lab	pr		sem	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶	Type ⁷
	Total																	

Altogether for general education blocks:

Total number of hours				Total number of CNPS hours	Total number of ECTS points	Total number of ECTS points for DN classes ⁵	Total number of ECTS points for BU classes ¹
lec	cl	lab	pr	sem			

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²Traditional – enter T, remote – enter Z

³Exam – 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)

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

⁵DN - 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

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

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

0	12	0	0	0	210	285	8	3	5.4
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4.2.2 List of basic sciences blocks

4.2.2.1 Mathematics block (min. 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr		sem	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶
		Total																

4.2.2.2 Physics block (min. 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr		sem	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶
		Total																

4.2.2.3 Chemistry block (min. 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses			
			lec	cl	lab	pr		sem	ZZU	CNPS	Total	DN ⁵ classes			BU ¹ classes	University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶

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

²Traditional – enter T, remote – enter Z

³Exam – 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)

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

⁵DN - 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

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

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

Total	0	0	0	2	1	45	670	22	17	8,7
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Altogether for main-field-of-study blocks:

Total number of hours		Total number of CNPS of ZUZ hours	Total number of ECTS points	Total number of ECTS points for DN classes ⁵	Number of ECTS points for BU classes ¹
lec	cl	lab	pr	semin	
0	0	0	2	1	
				670	22
				17	8,7

4.2.4 List of specialization blocks

4.2.4.1 Specialization subjects (e.g. whole specialization) blocks (min. ...27... 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 ² of course/gr oup of courses	Way ³ of crediting	Course/group of courses				
			lec	cl	lab	pr	semin		ZUZ	CNPS	DN ⁵ classes	BU ¹ classes			University -wide ⁴	Concerni ng scientific activities ⁵	Practical ⁶	Type ⁷	
1	ZMZ1246W	Contemporary organizational methods and techniques	1						15	30	1	1	0,7	T	Z		DN		S
2	ZMZ1246C	Contemporary organizational methods and techniques	1						15	30	1	1	0,7	T	Z		DN	P	S
3	FBZ1151W	Financial accounting in the organizational decision making process	2						30	60	2	2	1,4	T	Z		DN		S
4	FBZ1151C	Financial accounting in the organizational decision making process	1						15	60	2	2	0,7	T	Z		DN	P	S
5	EKZ1129W	Introduction to risk management	1						15	30	1	1	0,7	T	Z		DN		S
6	EKZ1129C	Introduction to risk management	1						15	60	2	2	0,7	T	Z		DN	P	S
7	ZMZ1251W	Leading project in modern organizations	2						30	90	3	3	1,4	T	E		DN		S
8	ZMZ1251C	Leading project in modern	1						15	60	2	2	0,7	T	Z		DN	P	S

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³Exam – 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)

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

⁵DN - 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

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

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

	organizations																				
9	ZMZ1244W	Marketing in the information society	2						30	120	4	4	1,4	T	E	DN					S
10	ZMZ1244C	Marketing in the information society	2					30	60	2	2	1,4	T	Z	DN	P					S
11	ZMZ1253W	Methods and Tools of Data Analysis	1					15	30	1	1	0,7	T	Z	DN						S
12	ZMZ1253L	Methods and Tools of Data Analysis	1					15	60	2	2	0,7	T	Z	DN	P					S
13	ZMZ1254W	Modern human resource management	2					30	60	2	2	1,4	T	Z	DN						S
14	ZMZ1254C	Modern human resource management	2					30	60	2	2	1,4	T	Z	DN	P					S
		Total	11	8	1	0	0	300	810	27	27	14,0									

4.2.4.2 Blocks (e.g. diploma profile) block (min. ..24.. 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 ² of course/group of courses	Way ³ of credit g-	Course/group of courses					
			lec	lab	pr	se	sem		ZZU	CNPS	total	DN ⁵ classes	BU ¹ classes			University-wide ⁴	Concerning scientific activities ⁵	Practical ⁶	Type ⁷		
1	IEZ	Computer science block	7	2	5	0	0	KL_ZARZ_W24 KL_ZARZ_W26 KL_ZARZ_U12 KL_ZARZ_U15 KL_ZARZ_U16 KL_ZARZ_K01 KL_ZARZ_K02	210	460	16	16	9,8	T	Z	DN					S
2	EKZ	Economic science block	2	1				KL_ZARZ_W03 KL_ZARZ_U03 KL_ZARZ_U15 KL_ZARZ_U16 KL_ZARZ_K01	45	120	4	4	2,1	T	Z	DN					S
3	PRZ	Legal science block	2	2				KL_ZARZ_W03 KL_ZARZ_W04 KL_ZARZ_W21 KL_ZARZ_U06 KL_ZARZ_U15 KL_ZARZ_U16 KL_ZARZ_K01 KL_ZARZ_K04 KL_ZARZ_K05	60	100	4	4	2,8	T	Z	DN					S
		Total	11	5	5	0	0	315	680	24	24	14,7									

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²Traditional – enter T, remote – enter Z

³Exam – 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)

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

⁵DN - 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

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

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

Blocks

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 ² of course/group of courses	Way ³ of crediting	Course/group of courses				
			lec	cl	lab	pr		sem	ZZ	UU	CNPS	total			DN ⁵ classes	BU ¹ classes	Universi-ty-wide ⁴	Concerni ng scientific activities ⁵	Practica l ⁶
		Computer science block (2 semester)																	
1	IEZ1208W	Data processing technology	1																
2	IEZ1208L	Data processing technology			2														
		Computer science block (3 semester)																	
1	IEZ1211W	Programming applications	2																
2	IEZ1211L	Programming applications				2													
		Economic science block (3 semester)																	
1	FBZ1187W	Financial Engineering	2	1															
2	FBZ1187C	Financial Engineering																	
3	EKZ1166W	Market Structures and their Regulation	2																
4	EKZ1166C	Market Structures and their Regulation				1													
		Computer science block (4 semester)																	
1	IEZ1237W	Investigation of MIS requirements	1																
2	IEZ1237C	Investigation of MIS requirements				1													
3	IEZ1238W	Methods of management information systems modeling	1																

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³Exam – 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)

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

⁵DN - 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

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

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

4	IEZ1238L	Methods of management information systems modeling			1			15	25	1	1	0,7	T	Z	DN	P	S	
5	IEZ1239W	Information Systems Analysis	1				15	25	1	1	0,7	T	Z	DN		S		
6	IEZ1239P	Information Systems Analysis		1			15	25	1	1	0,7	T	Z	DN	P	S		
		Legal science block (4 semester)	2	2			60	100	4	4	2,8							
							KLZARZ_W03 KLZARZ_W04 KLZARZ_W21 KLZARZ_W26 KLZARZ_U06 KLZARZ_U15 KLZARZ_U16 KLZARZ_K01 KLZARZ_K04 KLZARZ_K05											
1	PRZ1181W	Business on the EU market	1				15	25	1	1	0,7	T	Z	DN		S		
2	PRZ1181C	Business on the EU market		1			15	25	1	1	0,7	T	Z	DN	P	S		
3	PRZ1182W	International law	1				15	25	1	1	0,7	T	Z	DN		S		
4	PRZ1182C	International law		1			15	25	1	1	0,7	T	Z	DN	P	S		
5	PRZ1183W	Management and protection of intellectual property	1				15	25	1	1	0,7	T	Z	DN		S		
6	PRZ1183C	Management and protection of intellectual property		1			15	25	1	1	0,7	T	Z	DN	P	S		
		Computer science block (5 semester)	2	1			45	120	4	4	2,1							
							KLZARZ_W24 KLZARZ_W26 KLZARZ_U12 KLZARZ_U15 KLZARZ_U16 KLZARZ_K01											
1	IEZ1240W	Software project in management	2				30	60	2	2	1,4	T	Z	DN		S		
2	IEZ1240L	Software project in management		1			15	60	2	2	0,7	T	Z	DN	P	S		
3	IEZ1241W	IT Tools in Project Management	2				30	60	2	2	1,4	T	Z	DN		S		
4	IEZ1241L	IT Tools in Project Management		1			15	60	2	2	0,7	T	Z	DN	P	S		
		Total					315	680	24	24	14,7							

Altogether for specialization blocks:

Total number of hours				Total number of ZZU hours	Total number of CNPS of ECTS hours	Total number of ECTS points for DN classes ⁵	Number of ECTS points for BU classes ¹
lec	cl	lab	pr sem				
22	13	6	0	615	1490	51	28,7

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

⁵DN - 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

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

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

4.3 Training block - concerning principles of training crediting – attachment no. 1

The principles of training crediting are an integral part of the Faculty Quality Assurance System - process No. 7 “Carrying out student training” instruction No. 07-00-00-01-00, the update of which was approved by Resolution 8/1/2020-2024 of the Advisory Faculty Council of 29/09/2020.

Name of training			Code
Number of ECTS points	Number of ECTS points for BU ¹ classes	Training crediting mode	
5	0	<p>1. A student must present at least one of the following documents: - a report from the enterprise or institution in which the work placement occurred containing: the length of the work placement and assessment of the success of the placement; - a report from the enterprise confirming the fact that the student was employed, the length of employment and a description of the tasks carried out by the student, - a certificate witnessing a placement organized by AIESEC or other student organization of a similar nature, - a written report documenting the results of the placement.</p> <p>2. Work placements are assessed by the dean (assistant dean for academic affairs), or a person appointed by him/her, after reviewing the opinion of the student's placement supervisor and/or the documentation regarding the placement.</p>	ZMZ2623Q
Training duration			Training objective
4 weeks	Preparing students for future professional employment, as well as developing the skills and carrying out the tasks required in a chosen functional area of an organization - in		

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³Exam – 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)

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

⁵DN - 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

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

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

	<p>accordance with the stated goals of work practice, in particular:</p> <ul style="list-style-type: none"> - experiencing the demands and environment of the workplace, - making use of the theoretical and practical abilities developed during the course in a work environment, - developing social, practical and organizational abilities and positive working habits, as well as stimulating interest in the practical problems encountered in a chosen area of organizational activity, together with the socio-cultural function of an organization. <p>A work placement is carried out according to a program set out in agreement with the place of work and covers the following elements:</p> <p>a) a description of the role to be carried out,</p> <p>b) the relation between the work placement and the student's studies:</p> <ul style="list-style-type: none"> - defining the knowledge required to carry out the work placement, which a student should be in possession of before the placement starts, - indicating the subjects from the course program which will be fundamental to the competencies required during the placement, - in cases where a work placement is carried out in the final year of a student's studies, the relationship between the placement and the student's diploma thesis should be defined, - a description of the skills, knowledge and types of conduct that a student should develop during the work placement.
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4.4 „Diploma dissertation” block (if it is foreseen at first level studies)

Type of diploma dissertation	Licencjat / inżynier / magister / magister inżynier*
Number of diploma dissertation semesters	Number of ECTS points
2	1 16
Character of diploma dissertation	
Literature survey, project, computer program, etc.	

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³Exam – 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)

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

⁵DN - 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

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

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

5. Ways of verifying assumed learning outcomes

Type of classes	Ways of verifying assumed learning outcomes
lecture	Examination or test - multiple choice questions with single or multiple answers; open questions
class	Test (multiple choice and/or open questions); written reports in the form of presentations - literature and case studies, diagnostic and/or project reports - empirical research in real organizations, presenting the opinions of representatives of such organizations; spoken presentations using modern presentation technology
laboratory	Technical report or test
project	Written report documenting the diagnosis and solution of a problem, spoken presentation of the project with questions.
seminar	Choice and formulation of a problem/theme; activeness in discussions, written report in an academic style, essay, "mini"-monograph. Spoken presentations using modern presentation technology
work placement	Written report on the work practice given by the student's placement supervisor, confirmation of the completion and nature of the work placement by the employer
diploma thesis	Written report satisfying the current regulations for diploma theses, assessed by the supervisor and a reviewer using an appropriate form.
diploma examination	Spoken presentation of the results of the diploma thesis, answers to questions given by the examination committee, spoken answers to randomly chosen questions from the set appearing in the program of studies.

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²Traditional – enter T, remote – enter Z

³Exam – 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)

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

⁵DN - 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

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

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

6. Range of diploma examination

....

SYMBOL EFEKTU	ZAGADNIENIE EGZAMINACYJNE
K1_ZARZ_W01	1. Origin and evolution of organizational sciences 2. Economic sciences – scope and relation to social and technical sciences.
K1_ZARZ_W02	3. Types of economic systems and their elements.
K1_ZARZ_W03	4. Indexes for comparing economics and their usefulness in making decisions at the level of enterprises. 5. The Program of the Single European Market and its influence on the activities of enterprises. 6. Markets and their elements according to classical and liberal economics. 7. Market structures - perfect competition, monopolistic competition, oligopoly, monopoly 8. Theory of the regulatory actions made by government (e.g. the theory of market failures).
K1_ZARZ_W04	9. The essence and features of commercial law. Subjects of commercial law. 10. Protection of rights, including intellectual property, in the market operations of an enterprise. 11. Legislative protection of competition and of consumers. 12. Creating and liquidating enterprises. Bankruptcy proceedings and rectification proceedings. 13. Intellectual property –its essence, elements, licence agreements as an instrument of the commercialization of intellectual property.
K1_ZARZ_W05	14. An organization's life-cycle – phases and its determinants 15. Elements of an organization – people, technology, processes, structures 16. Legal, organizational and ownership forms of enterprises. 17. Organizational resources, potential and assets
K1_ZARZ_W06	18. Legal determinants of enterprise operations in the areas of employment, insurance, environmental protection, agreements with contracting parties, etc. 19. Social, economic and political determinants of organizational behavior – national and global dimensions. 20. An enterprise's cooperation with other entities: the essence and forms of cooperation, cooperatives and alliances..

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³Exam – 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)

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

⁵DN - 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

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

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

K1_ZARZ_W07	21. The essence, aims and functions of management 22. Management methods and techniques - classification criteria, examples of the application of selected methods or techniques. 23. Management as an information and decision-making process
K1_ZARZ_W08	24. Factors influencing organizational structures 25. Organizational structure – determinants and directions of evolution
K1_ZARZ_W09	26. Definition and generic classification of processes. Identifying, mapping, designing and implementing processes. 27. The functional and process forms of the organization of an enterprise. 28. Models and standardization of processes. Methods of evaluating processes.
K1_ZARZ_W10	29. Aims, phases and tools of marketing management. 30. The marketing-mix as a concept for influencing the market 31. The scope and functioning of marketing research, its procedures and methods.
K1_ZARZ_W11	32. Applied financial analysis – assessment of liquidity, profitability, assets and equity structure 33. Capital investment – material and cash investments. Methods of evaluating the productivity of investments. 34. Company assets and capital – balance sheet. Revenue and expenditure – financial results. Cash flow statement. 35. The fundamentals of bookkeeping. Accounting. 36. The sources and rules of financing a firm's activities.
K1_ZARZ_W12	37. Periodic evaluation of employees and their professional development – goals, principles, procedures. 38. Job appraisal (essence, aims, methods) and wages (wage tables, wage forms, wage functions). 39. Principles of creating teams; the role of teams in organizations and the factors influencing their efficiency.
K1_ZARZ_W13	40. Goals and strategies of production management in a market economy. 41. Systems and processes of production and services – methods of production management.
K1_ZARZ_W14	42. The essence of logistics, its fundamentals and levels of integration of logistic processes. 43. Management, planning and organization of logistic processes in an organization.
K1_ZARZ_W15	44. Goals and stages of DMAIC methodology (Define – Measure – Analyze – Improve – Control) used in the Six Sigma approach. 45. Techniques and methods of quality improvement. Costs of quality control. 46. Total Quality Management (TQM) and quality management systems according to ISO 9000 norms – basic differences
K1_ZARZ_W16	47. Methods of diagnosing and improving an enterprise's activities - examples of applications in various functional areas. 48. Popular methods of evaluating and selecting solutions to problems faced by organizations.
K1_ZARZ_W17	49. Leadership as goal attainment. The influence of motivation on human behaviour. 50. The essence of motivation and motivating. Theories of motivation and their characteristics. 51. Processes of social integration in an organization.

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²Traditional – enter T, remote – enter Z

³Exam – 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)

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

⁵DN - 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

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

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

K1_ZARZ_W18	52. Interpersonal conflicts – within and between groups. Group cohesion. 53. Organizational culture and the ethics of organizational behavior. 54. Sources and manifestations of power in an organization. Authority, influence, coalitions, leadership.
K1_ZARZ_W19	55. Forces that generate changes in an enterprise - models of managing change. 56. Process of implementing changes in an organization - the sources of resistance to change and ways to neutralize them.
K1_ZARZ_W20	57. The definition and initiation of projects. Evaluation of project feasibility. Analysis of project risk. Project structure. 58. The essence and roles of projects in management. The essence and types of projects. Project life cycle. 59. Project realization and resource planning. Project budgeting. Managing the realization of a project. Organization of a project team.
K1_ZARZ_W21	60. The essence and types of entrepreneurship, determinants of its initiation and development.
K1_ZARZ_W22	61. The essence and types of innovation, organisations and institutions supporting the diffusion of innovation.
K1_ZARZ_W23	62. The influence of the physical environment at work on employees
K1_ZARZ_W24	63. Mathematical methods applied in management – examples of applications
K1_ZARZ_W25	64. Multicriteria analysis in decision-making – examples of problems and methods of problem solving 65. Intelligent management systems – general characteristics, examples of application.
K1_ZARZ_W26	66. Analysis and forecasting of development trends – examples of applications. 67. Classical linear regression models – examples of applications in management. 68. Process of implementing and exploiting information systems in management. 69. The design of management information systems: assumptions, phases, rules and tools. 70. Assumptions and aims of an enterprise's strategy for applying computerization.

7. Requirements concerning deadlines for crediting courses/groups of courses for all courses in particular blocks

No.	Course / group of courses code	Name of course / group of courses	Crediting by deadline of... (number of semester)

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

8. Plan of studies (attachment no.)

Approved by faculty student government legislative body:

11.03.2021
Date

Mateusz Salech, Mateusz Salech
name and surname, signature of student representative



11.03.2021
Date

DZIEKAN
Katarzyna Tworek
dr hab. inż. Katarzyna Tworek, prof. uczelni
(3)

* delete as appropriate

¹BU¹ – number of ECTS points assigned to hours of classes requiring direct participation of academic teachers and other persons conducting classes

²Traditional – enter T, remote – enter Z

³Exam – 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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