

PROGRAMME OF STUDIES**1. Description**

<i>Number of semesters:</i> 6	<i>Number ECTS points necessary to obtain qualifications:</i>
<i>Prerequisites (particularly for second-level studies):</i>	<p><i>Upon completion of studies graduate obtains professional degree of:</i></p> <p><i>1st/2nd* level qualifications</i></p>
<i>Possibility of continuing studies: second-level studies (Master level)</i>	<p><i>Graduate profile, employability:</i></p> <p>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 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</p>

	manage a small team of workers and, in particular, run their own enterprise.
<p><i>Indicate connection with University's mission and its development strategy:</i></p> <p>Courses in Management are carried out within the Faculty of Computer Science and Management at Wrocław University of Technology. Although, such a subject lies in the field of social science, it lies directly within the mission and development strategy of a technical university.</p> <p>The educational program in Management is coherent with the mission of Wrocław University of Technology in the following areas:</p> <ul style="list-style-type: none"> • Developing creative, critical and tolerant graduates, as studying a course in management develops these traits; • Aiming to provide high quality courses and providing the students of Management and lecturers of the Institute of Organization and Management 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 the Erasmus program and with employers via 	

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<p>practical learning, carried out in the form of projects in specific organizations;</p> <ul style="list-style-type: none"> • Aiming to make an impact on the national and international scene in the area of educating specialists in the field of management. <p>The development plan of the department is in line with the strategy of the university as a whole. In particular, the department “...connects theoretical, research and specialist abilities with educational and teaching skills. The department is a leading research and teaching center in Poland and an important center on the international scene. Its teaching and research profile, together with the quality of the courses and research carried out in economics and technical science, ensures it an appropriately high position in national and international rankings”. Teaching courses in management is one of the long standing elements in the department's development strategy. In accordance with the decisions made at Wrocław University of Technology, our courses in management have an interdisciplinary nature. The program satisfies all the conditions stipulated in current legislation and is also in accordance with the National Educational Plan in the field of social science. In line with the university's strategy, in order to increase the attractiveness of our courses on the educational market, our</p>	
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programs in management have a unique character, since they make use of the natural - in business practice - complementarity of technical science and economics, enriched with the element of computer science. In accordance with the university's strategy and the department's development plan, which indicates the need for interaction with the region and its economy, the institute has created 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 our courses is being improved in all aspects. 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 theaters, audio-visual equipment and computer laboratories.

Graduates of our undergraduate studies in management are highly competitive on the employment market thanks to the specialist content of the program and the skills they develop through work practice. They are able to take up postgraduate studies and carry out basic research work.

2. Fields of science and scientific disciplines to which educational effects apply:

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Area of Knowledge / Education: **SOCIAL SCIENCES**

Area of science: **ECONOMIC SCIENCES**

Scientific disciplines: **MANAGEMENT SCIENCE, FINANCE, ECONOMICS**

3. Concise analysis of consistency between assumed educational effects and labour market needs

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.

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4. List of education modules:

4.1. List of obligatory modules:

4.1.1 List of general education modules

4.1.1.1 Liberal-managerial subjects module (min. ..5.... 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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	
1	PSZ1119W	Psychology	2					KI_ZARZ_W17	30	30	1	1	T	Z				KO	Ob
2	SCZ1110W	Sociology	2					KI_ZARZ_W17	30	30	1	1	T	Z				KO	Ob
3	PSZ	Social competences module					2	KI_ZARZ_U10 KI_ZARZ_U15 KI_ZARZ_U16 KI_ZARZ_U17 KI_ZARZ_U18 KI_ZARZ_K03 KI_ZARZ_K04 KI_ZARZ_K05 KI_ZARZ_K06 KI_ZARZ_K08 KI_ZARZ_K02	30	90	3	1	T	Z		P		KO	W
Total			4	0	0	0	2		90	150	5								

Social competences module (2 semester)

No.	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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	łączna	zajęć BK ¹			lab	pr	sem	typ ⁷

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1	PSZ1157S	Communication in management						2		30	90	3	1,0	T	Z		P	KO	W

4.1.1.2 Foreign languages module (min.5... 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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	JZL	Foreingn language B2.1		4				K1_ZARZ_U17 K1_ZARZ_U16	60	60	2	2	T	Z	O	P	KO	W
2	JZL	Foreingn language B2.2		4				K1_ZARZ_U17 K1_ZARZ_U16	60	90	3	2	T	Z	O	P	KO	W
Total			0	8	0	0	0		120	150	5	4						

4.1.1.3 Sporting classes module (min. 1... 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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	WFW	Sport activities		2					30	30	1	1	T	Z	O	P	KO	W
Total			0	2	0	0	0		30	30	1	1						

4.1.1.4 Information technologies module (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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷

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								effect symbol										
1	IEZ1148W	Information technology	2					K1_ZARZ_W26	30	60	2	1	T	Z			K	Ob
2	IEZ1148L	Information technology			1			K1_ZARZ_U12 K1_ZARZ_U15 K1_ZARZ_U17	15	60	2	0,5	T	Z		P	K	Ob
Total			2	0	1	0	0		45	120	4	1,5						

Altogether for general education modules

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
6	10	1	0	2	285	450	15	9,5

4.1.2 List of basic sciences modules

4.1.2.1 Mathematics module

No.	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	MAZ1130W	Descriptive statistics	2					K1_ZARZ_W25	30	120	4	1,0	T	E			PD	Ob
2	MAZ1130C	Descriptive statistics		1				K1_ZARZ_U15 K1_ZARZ_U14	15	60	2	0,5	T	Z		P	PD	Ob
3	MAZ1131W	Economical mathematics	2					K1_ZARZ_W03 K1_ZARZ_W23	30	120	4	1,0	T	E			PD	Ob
4	MAZ1131C	Economical mathematics		1				K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15	15	60	2	0,5	T	Z		P	PD	Ob
Total			6	4	0	0	0		150	630	21	5,0						

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4.1.2.2 Physics module

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	FZZ1104W	Work environment physics	1					K1_ZARZ_W22 S1_ZARZ_OM_W07	15	30	1	0,5	T	Z			PD	Ob
2	FZZ1104C	Work environment physics		1				K1_ZARZ_U06 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U17 K1_ZARZ_U13 S1_ZARZ_OM_U07	15	30	1	0,5	T	Z		P	PD	Ob
3	FZZ1104L	Work environment physics			1			K1_ZARZ_U06 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U17 K1_ZARZ_U13 S1_ZARZ_OM_U07	15	60	2	0,5	T	Z		P	PD	Ob
Total			1	1	1	0	0		45	120	4	1,5						

4.1.2.3 Chemistry module

No..	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
Total																		

other.....

Altogether for basic sciences modules:

Total number of hours	Total number	Total number	Total number	Number of ECTS points
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					of ZZU hours	of CNPS hours	of ECTS points	for BK classes ¹
lec	cl	lab	pr	sem				
7	5	1	0	0	195	750	25	6,5

4.1.3 List of main-field-of-study modules

4.1.3.1 Obligatory main-field-of-study modules

No.	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	ZMZ1256D	Bachelor thesis					2	K1_ZARZ_U18 K1_ZARZ_U16 K1_ZARZ_U11 K1_ZARZ_K06 K1_ZARZ_U06 K1_ZARZ_U17 K1_ZARZ_K07 K1_ZARZ_U12 K1_ZARZ_U15 K1_ZARZ_U14 K1_ZARZ_K08 K1_ZARZ_U05 K1_ZARZ_K01 K1_ZARZ_U04 K1_ZARZ_U02 K1_ZARZ_U03 K1_ZARZ_U07	30	420	14	0,0	T	Z		P	K	Ob
2	PRZ1121W	Civil and commercial law	2					K1_ZARZ_W03 K1_ZARZ_W04	30	60	2	1,0	T	Z			K	Ob
3	PRZ1121C	Civil and commercial law		1				K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U17 K1_ZARZ_U06	15	60	2	0,5	T	Z		P	K	Ob
4	FBZ1152W	Corporate finance	2					K1_ZARZ_W11	30	90	3	1,0	T	E			K	Ob
5	FBZ1152C	Corporate finance		1				K1_ZARZ_U07 K1_ZARZ_U03 K1_ZARZ_U02 K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U08 K1_ZARZ_U04 K1_ZARZ_U11	15	60	2	0,5	T	Z		P	K	Ob

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6	ZMZ1250S	Diploma seminar					1	K1_ZARZ_K08 K1_ZARZ_U14 K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15	15	30	1	0,5	T	Z		P	K	Ob
7	FBZ1150W	Essentials of finance	2					K1_ZARZ_W11	30	60	2	1,0	T	Z			K	Ob
80	ZMZ1242W	Essentials of management	2					K1_ZARZ_W06 K1_ZARZ_W09 K1_ZARZ_W18 K1_ZARZ_W19 K1_ZARZ_W05 K1_ZARZ_W07 K1_ZARZ_W08	30	120	4	1,0	T	E			K	Ob
9	ZMZ1242C	Essentials of management		2				K1_ZARZ_K01 K1_ZARZ_U03 K1_ZARZ_U01 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U17 K1_ZARZ_U02 K1_ZARZ_U04 K1_ZARZ_U07 K1_ZARZ_U08	30	60	2	1,0	T	Z		P	K	Ob
10	FBZ1154W	Financial analysis supported by computer	1					K1_ZARZ_W11	15	60	2	0,5	T	Z			K	Ob
11	FBZ1154L	Financial analysis supported by computer				1		K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U11 K1_ZARZ_U05 K1_ZARZ_U04 K1_ZARZ_U07	15	60	2	0,5	T	Z		P	K	Ob
12	FBZ1153	Financial management	2					K1_ZARZ_W09 K1_ZARZ_W11	30	60	2	1,0	T	Z			K	Ob
13	FBZ1153C	Financial management		1				K1_ZARZ_U02 K1_ZARZ_K01 K1_ZARZ_U04 K1_ZARZ_U05 K1_ZARZ_U03 K1_ZARZ_U11 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07	15	30	1	0,5	T	Z		P	K	Ob
14	ZMZ1602Q	Internship (4th lub 5th semester)							0	180	5	0,0						Ob
15	ZMZ1247W	Logistics	1					K1_ZARZ_W09 K1_ZARZ_W14	15	30	1	0,5	T	Z			K	Ob

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16	ZMZ1247C	Logistics		1						K1_ZARZ_U11 K1_ZARZ_U05 K1_ZARZ_U04 K1_ZARZ_U02 K1_ZARZ_K01 K1_ZARZ_U03 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07	15	30	1	0,5	T	Z			P	K	Ob
17	EKZ1128W	Macroeconomics	2							K1_ZARZ_W02 K1_ZARZ_W01 K1_ZARZ_W03	30	120	4	1,0	T	E			K	Ob	
18	EKZ1128C	Macroeconomics		1						K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15	15	60	2	0,5	T	Z		P	K	Ob	
19	IEZ1149W	Information Systems in Management	2							K1_ZARZ_W24 K1_ZARZ_W26	30	120	4	1,0	T	E			K	Ob	
20	IEZ1149C	Information Systems in Management		1						K1_ZARZ_U12 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15	15	30	1	0,5	T	Z		P	K	Ob	
21	ZMZ1257L	Management training			2					K1_ZARZ_U05 K1_ZARZ_K08 K1_ZARZ_U03 K1_ZARZ_K03 K1_ZARZ_U11 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07	30	60	2	1,0	T	Z		P	K	Ob	
22	ZMZ1248W	Marketing management	1							K1_ZARZ_W10	15	30	1	0,5	T	Z			K	Ob	
23	ZMZ1248C	Marketing management		1						K1_ZARZ_U11 K1_ZARZ_U03 K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07 K1_ZARZ_U02 K1_ZARZ_U08	15	30	1	0,5	T	Z		P	K	Ob	
24	ZMZ1252	Marketing research	2							K1_ZARZ_W10	30	60	2	1,0	T	Z			K	Ob	
25	ZMZ1252C	Marketing research			2					K1_ZARZ_U14 K1_ZARZ_U05 K1_ZARZ_U04 K1_ZARZ_U11 K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07	30	90	3	1,0	T	Z		P	K	Ob	
26	EKZ1127W	Microeconomics	2							K1_ZARZ_W01 K1_ZARZ_W02 K1_ZARZ_W03	30	120	4	1,0	T	E			K	Ob	

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27	EKZ1127C	Microeconomics		2					K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U17 K1_ZARZ_U03	30	60	2	1,0	T	Z		P	K	Ob
28	ZMZ1249W	Operations management	1						K1_ZARZ_W09 K1_ZARZ_W13	15	60	2	0,5	T	E			K	Ob
29	ZMZ1249C	Operations management		1					K1_ZARZ_U04 K1_ZARZ_U11 K1_ZARZ_U03 K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07 K1_ZARZ_U02 K1_ZARZ_U08	15	30	1	0,5	T	Z		P	K	Ob
30	ZMZ1249L	Operations management			1				K1_ZARZ_U04 K1_ZARZ_U11 K1_ZARZ_U03 K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07 K1_ZARZ_U02 K1_ZARZ_U08	15	30	1	0,5	T	Z		P	K	Ob
31	ZMZ1245W	Organizational behaviour	2						K1_ZARZ_W18	30	60	2	1,0	T	Z			K	Ob
32	ZMZ1245C	Organizational behaviour		1					K1_ZARZ_K09 K1_ZARZ_K01 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_K02 K1_ZARZ_K06 K1_ZARZ_K04 K1_ZARZ_U09 K1_ZARZ_U10	15	60	2	0,5	T	Z			K	Ob
33	ZMZ1243W	Organizational science	2						K1_ZARZ_W05 K1_ZARZ_W09 K1_ZARZ_W06	30	60	2	1,0	T	Z			K	Ob
34	ZMZ1243C	Organizational science		1					K1_ZARZ_K01 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U17 K1_ZARZ_U01 K1_ZARZ_U02	15	30	1	0,5	T	Z		P	K	Ob
35	ZMZ1258W	Business Process Management	2						K1_ZARZ_W09 K1_ZARZ_W16	30	60	2	1,0	T	Z			K	Ob
36	ZMZ1255W	Total quality management	2						K1_ZARZ_W15 SI_ZARZ_OM_W05	30	90	3	1,0	T	E			K	Ob

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

37	ZMZ1255C	Total quality management		2						K1_ZARZ_U02 K1_ZARZ_K01 K1_ZARZ_U03 K1_ZARZ_U17 K1_ZARZ_U16 K1_ZARZ_U15 K1_ZARZ_U07 K1_ZARZ_U06 S1_ZARZ_OM_U06	30	60	2	1,0	T	Z		P	K	Ob
Total			30	18	4	2	1			825	2730	90	26,5							

4.1.3.2 module

No.	Course/group of courses code	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	
Total																			

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

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
30	18	4	2	1	825	2730	90	26,5

4.2 List of optional modules

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

4.2.1 List of general education modules

4.2.1.1 Liberal-managerial subjects modules (*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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	
		Total																	

4.2.1.2 Foreign languages module (*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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	
		Total																	

4.2.1.3 Sporting classes module (*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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

		Total																	

4.2.1.4 Information technologies module (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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	
		Total																	

Altogether for general education modules:

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				

4.2.2 List of basic sciences modules

4.2.2.1 Mathematics module (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					Field-of-study educational effect	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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

								symbol												
		Total																		

4.2.2.2 Physics module (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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷		
		Total																		

4.2.2.3 Chemistry module (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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷		
		Total																		

Altogether for basic sciences modules:

Total number of hours					Total	Total	Total	Number of
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¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

					number of ZZU hours	number of CNPS hours	number of ECTS points	ECTS points for BK classes ¹
lec	cl	lab	pr	sem				

4.2.3 List of main-field-of-study modules

4.2.3.1 module (*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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷	
		Total																	

Altogether for main-field-of-study modules:

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				

4.2.4 List of specialization modules

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

4.2.4.1 Specialization subjects (e.g. whole specialization) modules (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					Field-of-study educational 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	BK classes ¹			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	ZMZ1246W	Contemporary organizational methods and techniques	1					SI_ZARZ_OM_W10	15	30	1	0,5	T	Z			S	Ob
2	ZMZ1246C	Contemporary organizational methods and techniques		1				SI_ZARZ_OM_U10	15	30	1	0,5	T	Z		P	S	Ob
3	FBZ1151W	Financial accounting in the organizational decision making process	2					SI_ZARZ_OM_W01	30	60	2	1,0	T	Z			S	Ob
4	FBZ1151C	Financial accounting in the organizational decision making process		1				SI_ZARZ_OM_U01	15	60	2	0,5	T	Z		P	S	Ob
5	EKZ1129W	Introduction to risk management	1					SI_ZARZ_OM_W08	15	30	1	0,5	T	Z			S	Ob
6	EKZ1129C	Introduction to risk management		1				SI_ZARZ_OM_U08	15	60	2	0,5	T	Z		P	S	Ob
7	ZMZ1251	Leading project in modern organizations	2					SI_ZARZ_OM_W02	30	90	3	1,0	T	E			S	Ob
8	ZMZ1251C	Leading project in modern organizations		1				SI_ZARZ_OM_U02	15	60	2	0,5	T	Z		P	S	Ob
9	ZMZ1244W	Marketing in the information society	2					SI_ZARZ_OM_W03	30	120	4	1,0	T	E			S	Ob
10	ZMZ1244C	Marketing in the information society		2				SI_ZARZ_OM_U03	30	60	2	1,0	T	Z		P	S	Ob
11	ZMZ1253W	Methods and tools of data analysis	1					SI_ZARZ_OM_W09	15	30	1	0,5	T	Z			S	Ob
12	ZMZ1253L	Methods and tools of data analysis			1			SI_ZARZ_OM_U09	15	60	2	0,5	T	Z		P	S	Ob
13	ZMZ1254W	Modern human resource management	2					SI_ZARZ_OM_W04	30	60	2	1,0	T	Z			S	Ob
14	ZMZ1254C	Modern human resource management		2				SI_ZARZ_OM_U04	30	60	2	1,0	T	Z		P	S	Ob
Total			11	8	1	0	0		300	810	27	10,0						

4.2.4.2(e.g. diploma profile) module (min. 23 ECTS points):

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

No.	Course/group of courses	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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 łączna	BK classes			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
1	IEZ	Computer science module	7	2	5	0	0		210	450	15	7,0	T	Z			S	W
2	EKZ	Economic science module	2	1					45	120	4	1,5	T	Z			S	W
3	PRZ	Legal science module	2	2					60	120	4	2,0	T	Z			S	W
		Razem	11	5	5	0	0		315	690	23	10,5						

Modules

No.	Course/group of courses	Name of course/group of courses (denote group of courses with symbol GK)	Weekly number of hours					Field-of-study educational 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 łączna	BK classes			university-wide ⁴	practical ⁵	kind ⁶	type ⁷
		Computer science module (2 semester)	1		2				45	120	4							
1	IEZ1208W	Data processing technology	1					K1_ZARZ_W24 K1_ZARZ_W25 K1_ZARZ_W26	15	60	2	0,5	T	Z			S	W
2	IEZ1208L	Data processing technology			2			K1_ZARZ_U15 K1_ZARZ_U16 K1_ZARZ_U17 K1_ZARZ_K02	30	60	2	1,0	T	Z		P	S	W
		Computer science module (3 semester)	2		2				60	120	4							
1	IEZ1211W	Programming applications	2					K1_ZARZ_W24 K1_ZARZ_W25 K1_ZARZ_W26	30	60	2	1,0	T	Z			S	W

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

2	IEZ1211L	Programming applications			2			KI_ZARZ_U15 KI_ZARZ_U16 KI_ZARZ_U17 KI_ZARZ_K02	30	60	2	1,0	T	Z		P	S	W
		Economic science module (3 semester)	2	1					45	120	4							
1	FBZ1187W	Financial Engineering	2					KI_ZARZ_W11	30	60	2	1,0	T	Z			S	W
2	FBZ1187C	Financial Engineering		1				KI_ZARZ_U15 KI_ZARZ_U16 KI_ZARZ_U17 KI_ZARZ_K01	15	60	2	0,5	T	Z		P	S	W
3	EKZ1166W	Market Structures and their Regulation	2					KI_ZARZ_W11	30	60	2	1,0	T	Z			S	W
4	EKZ1166C	Market Structures and their Regulation		1				KI_ZARZ_U15 KI_ZARZ_U16 KI_ZARZ_U17 KI_ZARZ_K01	15	60	2	0,5	T	Z		P	S	W
		Computer science module (4 semester)	2	2					60	120	4							
1	IEZ1209W	Investigation of MIS requirements	1					KI_ZARZ_W24 KI_ZARZ_W25 KI_ZARZ_W26	15	30	1	0,5	T	Z			S	W
2	IEZ1209C	Investigation of MIS requirements		1				KI_ZARZ_U15 KI_ZARZ_U16 KI_ZARZ_U17 KI_ZARZ_K02	15	30	1	0,5	T	Z		P	S	W
3	IEZ1210W	Management information systems modeling	1					KI_ZARZ_W24 KI_ZARZ_W25 KI_ZARZ_W26	15	30	1	0,5	T	Z			S	W
4	IEZ1210C	Management information systems modeling		1				KI_ZARZ_U15 KI_ZARZ_U16 KI_ZARZ_U17 KI_ZARZ_K02	15	30	1	0,5	T	Z		P	S	W
		Legal science module (4 semester)	2	2					60	120	4							
1	PRZ1156W	Law essentials	1					KI_ZARZ_W03 KI_ZARZ_W21 KI_ZARZ_W04	15	30	1	0,5	T	Z			S	W
2	PRZ1156C	Law essentials		1				KI_ZARZ_U06 KI_ZARZ_K01 KI_ZARZ_K04 KI_ZARZ_K05 KI_ZARZ_K09z	15	30	1	0,5	T	Z		P	S	W
3	PRZ1155W	International law	1					KI_ZARZ_W03 KI_ZARZ_W21 KI_ZARZ_W04	15	30	1	0,5	T	Z			S	W
4	PRZ1155C	International law		1				KI_ZARZ_U06 KI_ZARZ_K01 KI_ZARZ_K04 KI_ZARZ_K05 KI_ZARZ_K09z	15	30	1	0,5	T	Z		P	S	W
		Computer science module (5 semester)	2	1					45	90	3							
1	IEZ1212W	Software project in management	2					KI_ZARZ_W24 KI_ZARZ_W25 KI_ZARZ_W26	30	60	2	1,0	T	Z			S	W

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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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – enter W, obligatory – enter Ob

2	IEZ1212L	Software project in management			1		KI_ZARZ_U15 KI_ZARZ_U16 KI_ZARZ_U17 KI_ZARZ_K02	15	30	1	0,5	T	Z		P	S	W
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Altogether for specialization modules:

Total number of hours					Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
lec	cl	lab	pr	sem				
22	13	6	0	0	615	1500	50	20,5

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

4.3 Training module (Faculty Council resolution on principles of crediting training – attachment no. ...)

Name of training		Training crediting mode	Code
Number of ECTS points	Number of ECTS points for BK classes ¹		
5	0	<p>1. A student must present at least one of the following documents:</p> <ul style="list-style-type: none"> - 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>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>	ZMZ1602Q

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

⁶ KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷ Optional – enter W, obligatory – enter Ob

Training duration	Training objective
3 weeks	<p>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 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> <ol style="list-style-type: none"> a) a description of the role to be carried out, b) the relation between the work placement and the student's studies: <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

¹BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

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

⁵Practical 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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	<p>competencies required during the placement,</p> <ul style="list-style-type: none"> - 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 module

Type of diploma dissertation	Licencjat / inżynier / magister / magister inżynier	
Number of diploma dissertation semesters	Number of ECTS points	Code
2	1 14	ZMZ1250S Diploma seminar ZMZ1256D Bachelor thesis
Character of diploma dissertation		
diagnostic or design		
Number of BK¹ ECTS points	15	

5. Ways of verifying assumed educational effects

Type of classes	Ways of verifying assumed educational effects
lecture	Examination or test - multiple choice questions with single or multiple answers; open questions

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problems classes	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.

6. Total number of ECTS points, which student has to obtain from classes requiring direct academic teacher-student contact (enter total of ECTS points for courses/groups of courses denoted with code BK¹)

...161 ECTS

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

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

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	74
Number of ECTS points for optional subjects	20
Total number of ECTS points	94

9. Minimum number of ECTS points, which student has to obtain doing education modules 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)

...**6**.... ECTS points

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

...**32**.... ECTS points

11. Range of diploma dissertation

Character of effect/ issue	EXAM QUESTION
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.

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K1_ZARZ_W03	<p>4. Indexes to comparing the economies and their usefulness in making decisions on the enterprises level.</p> <p>5. The Program of the Single European Market and their influence on the enterprises activities.</p> <p>6. Market and its element according to classical and liberal economics.</p> <p>7. Market structures - perfect competition, monopolistic competition, oligopoly, monopoly</p> <p>8. Theory of the regulation actions by government (e.g. the theory of market failures).</p>
K1_ZARZ_W04	<p>9. The being and features of the commercial law. Subjects of the commercial law.</p> <p>10. Protection of rights exclusive up to the intellectual property in the market operations of the enterprise.</p> <p>11. Legislative protection of competition and of consumers.</p> <p>12. Creating and the liquidation of enterprises. The bankruptcy proceedings and rectification proceedings.</p> <p>13. Intellectual property - the being, elements, the licence agreement as the instrument of the commercialization of the intellectual property.</p>
K1_ZARZ_W05	<p>14. Organization life-cycle – phases and its determinants</p> <p>15. Elements of organization – people, technology, processes, structures</p> <p>16. Legal, organizational and ownership forms of enterprises.</p> <p>17. Organizational resources, potential and assets</p>
K1_ZARZ_W06	<p>18. Legal determinants of the enterprise operations in the areas of employment, insurance, environmental protection, agreements with contracting parties, etc.</p> <p>19. Social, economic and political determinants of organizational behavior – national and global dimension.</p> <p>20. Enterprise’s cooperation with other entities: the essence and forms of cooperation, corporate and concentration forms.</p>
K1_ZARZ_W07	<p>21. Issue, aims and functions of management</p> <p>22. Management methods and techniques - classification criteria, the application examples of selected methods or techniques.</p> <p>23. Management as information and decision-making process</p>
K1_ZARZ_W08	<p>24. Factors influencing organizational structures</p> <p>25. Organizational structure – determinants and directions of evolution</p>
K1_ZARZ_W09	<p>26. Definition and generic classification of processes. Identifying, mapping, designing and implementing the process.</p> <p>27. The functional and process organization of an enterprise.</p> <p>28. Models and standardization of processes. Methods of processes measurement and evaluation.</p>

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K1_ZARZ_W10	29. Aims, phases and tools of marketing management. 30. Marketing-mix as concept of market influences 31. Scope and function of marketing research, its procedures and methods.
K1_ZARZ_W11	32. Financial analysis in problem approach - evaluation of liquidity, profitability analysis, assets and equity structure 33. Capital investment – material and cash investments. Methods of investments productivity evaluation. 34. Company assets and capitals – balance sheet. Revenues and expenditures – financial result. Cash flow statement. 35. Accounts functioning. Chart of accounts. 36. Sources and rules of financing firm activity.
K1_ZARZ_W12	37. Periodic evaluation of employees and their professional development – goals, principles, procedures. 38. Job evaluation (essence, aims, methods) and wages (wage tables, wage forms, wage functions). 39. Principles of creating and functioning the teams in organizations and the factors influencing on their efficiency.
K1_ZARZ_W13	40. Goals and strategies of production management in the market economy. 41. Systems and processes of production and services – production management methods.
K1_ZARZ_W14	42. The essence of logistics, its mainstays and the levels of logistics processes integration. 43. Logistics processes management. Logistics processes planning and organization 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. Quality costs. 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 the enterprise’s activity - application examples in various functional areas. 48. Evaluation and choice of organizational problem best solution - main methods
K1_ZARZ_W17	49. Leading as goals’ attaining. Influence of motivation on human behaviour. 50. The essence of motivation and motivating. Theories of motivation and their characteristics. 51. Social integration processes in organization.
K1_ZARZ_W18	52. Interpersonal conflicts – withing and between groups. Group cohesion. 53. Organizational culture and organizational behavior ethics. 54. Sources and manifestations of power in organization. Authority, influence, coalitions. Leadership.
K1_ZARZ_W19	55. Forces that generate changes in the enterprise - change management models. 56. Process of implementing changes in the organization - the sources of change resistance and ways to neutralize them.

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K1_ZARZ_W20	57. Project initiation and definition. Project feasibility evaluation. Project risk analysis. Project structure. 58. The essence of project management and its role in management. The essence and types of projects. Project life cycle. 59. Project realization and resources planning. Project budgeting. Project realization steering. Project team organization.
K1_ZARZ_W21	60. Meaning and types of entrepreneurship, background of initiation and development. 61. Meaning and types of innovation, organisations and institutions supporting the diffusion of innovation.
K1_ZARZ_W22	62. The influence of physical environment factors on a man at work.
K1_ZARZ_W23	63. Mathematical methods for management – examples of applications
K1_ZARZ_W24	64. Multicriterial analysis in decision-making – examples of problems and methods of problem solving 65. Intelligent management systems – general characteristics, examples of application.
K1_ZARZ_W25	66. Analysis and forecasting of development tendency – examples of applications. 67. Classical model of linear regression – examples of applications in management
K1_ZARZ_W26	68. Process of implementation and exploitation of management information systems. 69. Management information systems design: assumptions, phases, rules and tools. 70. Assumptions and aims of an enterprise informatization strategy.

12. Requirements concerning deadlines for crediting courses/groups of courses for all courses in particular modules no requirements

<i>No.</i>	<i>Course code</i>	<i>Name of course</i>	<i>Crediting by deadline of... (number of semester)</i>

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13. Plan of studies (attachment no. ...5...)

Approved by faculty student government legislative body:

.....
Date, name and surname, signature of student representative

.....
Date, Dean's signature

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