

PROGRAMME OF STUDIES

1. Description

<i>Number of semesters:4</i>	<i>Number ECTS points necessary to obtain qualifications:120</i>
<p><i>Prerequisites (particularly for second-level studies):</i></p> <p>Graduate at least of first-level studies (bachelor program).</p> <p><i>According to internal ordinance no 32/2012 from 30th April 2012r.</i></p> <p>http://rekrutacja.pwr.edu.pl/content/strona/PL/AKTY/rekrutacja20132014.html</p>	<p><i>Upon completion of studies graduate obtains</i></p> <p><i>professional degree of: Master of Science (magister)</i></p> <p><i>2nd level qualifications</i></p>
<p><i>Possibility of continuing studies: third-level studies, doctoral studies.</i></p>	<p><i>Graduate profile, employability:</i></p> <p>A masters graduate possesses advanced specialist knowledge in the field of management sciences in the following areas: analytical models and methods, integrated information systems and, in particular, contemporary concepts and methods in managing, planning and monitoring the results of the activities of an enterprise, together with the functioning, development and strategic renewal of organizations. A masters graduate is characterized by the ability to think abstractly and a critical approach to theory, which enables him/her to identify, describe, analyze and interpret the complex processes and problems of a firm and its surroundings. He/she is in possession of the ability to integrate knowledge from various disciplines (economics, psychology, law) and apply computer and mathematical tools to carry out a full diagnosis of a problem and create innovative solutions in the workplace.</p> <p>Such masters graduates are qualified to work as an independent entrepreneur, manager, specialist or consultant due to their advanced</p>

	<p>ability to identify, formulate and solve problems within the framework of a complex and uncertain environment, as well as to select the appropriate methods and tools for analysis.</p> <p>Graduates are qualified to carry out the role of managing employees taking into account professional standards, as well as ethical norms and socially accepted traits. He/she is a specialist in the field of managing material and non-material resources. He/she is able to apply, in accordance with needs, instruments and the theory of directing and maintaining appropriate behavior and attitudes in individuals, teams and the organization as a whole. He/she is able to carry out complex decisions and actions, as well as function in changing conditions and uncertainty. He/she understands the role of a leader and the need for effective communication, negotiation and conflict resolution and make use of the wide range of instruments known from psychology and business sociology.</p> <p>The specialist knowledge and abilities gained during undergraduate studies, added to the specialist skills gained in the field of management decision making and behavior, qualify a graduate to play a role in middle and upper management in a medium-sized enterprise appropriate to his/her technical speciality. A graduate is also qualified to take the role of a department manager appropriate to his/her speciality in various types of enterprise.</p>
<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</p>	

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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.

The educational program in Management is coherent with the mission of Wrocław University of Technology in the following areas:

- 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 practical learning, carried out in the form of projects in specific organizations;
- Aiming to make an impact on the national and international scene in the area of educating specialists in the field of management.

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,

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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 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.

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The program of masters studies in management develops the theoretical knowledge and practical skills of students, enabling graduates to be highly competitiveness on the employment market. Graduates are able to undertake doctoral studies and carry out their own research. They also are conscious of the need for constant self-development in cooperation with their alma mater.	
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2. Fields of science and scientific disciplines to which educational effects apply:

Area of Knowledge / Education: SOCIAL SCIENCES

Area of science: ECONOMIC SCIENCES

Scientific disciplines: MANAGAMENT SCIENCE, FINANCE

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

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

- The need for employees to understand the functioning of an enterprise from a strategical perspective and, in particular, to assess and improve a firm's competitive and value (medium-sized and large enterprises);
- The ability to work independently, as well as to play various roles in a team including diagnosing problems, designing and implementing solutions in various functional areas of an enterprise - as appropriate to the graduate's speciality (medium-sized and large enterprises);
- Seeing the need for innovative methods and techniques for management and computer tools, as well as designing or choosing and implementing them;
- The ability to learn and share knowledge with others, as well as creativeness and openness to innovations.

The specific goals of this program answer the need for specialists/managers in production and/or logistics departments, as well as task/project groups involved in the planning and/or realization of production processes (as appropriate to the speciality of the graduate) in medium-sized and large enterprises. He/she is qualified to integrate both technical and managerial skills to solve complex practical and managerial problems, in particular to make decisions.

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The masters level course programs in management, together with the long standing experience of the teaching staff, create the conditions for students to achieve the set goals and to meet the demands of employers.

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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... 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																	

4.1.1.2 Foreign languages module (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					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	Foreign language I		1				K2_ZARZ_U16 K2_ZARZ_U15 K2_ZARZ_U20 K2_ZARZ_U19 K2_ZARZ_U21	10	30	1	0,3	T	Z	O	P	KO	W
2	JZL	Foreign language II		3				K2_ZARZ_U20 K2_ZARZ_U19 K2_ZARZ_U21	30	60	2	1,0	T	Z	O	P	KO	W
		Total	0	4	0	0	0		40	90	3	1,3						

4.1.1.3 Sporting classes module (min. ECTS points):

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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																	

4.1.1.4 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				
0	4	0	0	0	40	90	3	1,3

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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	MAZ1139W	Operations Research	2					K2_ZARZ_W13	20	120	4	0,7	T	E				PD	Ob
2	MAZ1139L	Operations Research			1			K2_ZARZ_U10 K2_ZARZ_U18 K2_ZARZ_K01 K2_ZARZ_K08	10	90	3	0,3	T	Z		P		PD	Ob
3	MAZ1453W	Statistics and ekonometrics	2					K2_ZARZ_W13	20	120	4	0,7	T	Z				PD	Ob
4	MAZ1453L	Statistics and ekonometrics			1			K2_ZARZ_U14 K2_ZARZ_U12	10	90	3	0,3	T	Z		P		PD	Ob
Total			4	0	2	0	0		60	420	14	2,0							

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	
Total																			

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	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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									symbol									
		Total																

Altogether for basic sciences 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	0	2	0	0	60	420	14	2,0

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	EKZ1156W	MANAGEMENT ECONOMICS	2					S2_ZDM_W08 S2_ZDM_W01	20	60	2	0,7	T	Z			K	Ob
2	EKZ1156C	MANAGEMENT ECONOMICS		2				S2_ZDM_U01 S2_ZDM_U03	20	60	2	0,7	T	Z		P	K	Ob
3	ZMZ1560W	Management concepts	2					K2_ZARZ_W04 K2_ZARZ_W08	20	120	4	0,7	T	E			K	Ob

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4	ZMZ1560P	Management concepts				1	K2_ZARZ_U04 K2_ZARZ_U16 K2_ZARZ_U17 K2_ZARZ_U06 K2_ZARZ_U18 K2_ZARZ_K09 K2_ZARZ_K01 K2_ZARZ_K02 K2_ZARZ_K06	10	60	2	0,3	T	Z		P	K	Ob
5	ZMZ1561W	Controlling	1				K2_ZARZ_W06 K2_ZARZ_W07	10	60	2	0,3	T	Z			K	Ob
6	ZMZ1561P	Controlling				1	K2_ZARZ_U02 K2_ZARZ_U06 K2_ZARZ_U08	10	60	2	0,3	T	Z		P	K	Ob
7	IEZ1194W	Business simulation	1				K2_ZARZ_W13	10	60	2	0,3	T	Z			K	Ob
8	IEZ1194L	Business simulation				1	K2_ZARZ_U11 K2_ZARZ_U12 K2_ZARZ_K06	10	60	2	0,3	T	Z		P	K	Ob
9	ZMZ1553W	Fundamentals of Management and Marketing	2				S2_ZDM_W03 S2_ZDM_W02 S2_ZDM_W04 S2_ZDM_W05 S2_ZDM_W10	20	150	5	0,7	T	E			K	Ob
10	ZMZ1553C	Fundamentals of Management and Marketing		1			S2_ZDM_U02 S2_ZDM_U05 S2_ZDM_U03 S2_ZDM_U07 S2_ZDM_U09	10	30	1	0,3	T	Z		P	K	Ob
11	ZMZ1553S	Fundamentals of Management and Marketing				2	S2_ZDM_U02 S2_ZDM_U05 S2_ZDM_U03 S2_ZDM_U07 S2_ZDM_U09	20	60	2	0,7	T	Z		P	K	Ob
12	PRZ1148W	Commercial law	1				S2_ZDM_W02	10	30	1	0,3	T	Z			K	Ob
13	PRZ1148C	Commercial law		1			S2_ZDM_U09 S2_ZDM_U01	10	30	1	0,3	T	Z		P	K	Ob
14	PSZ1155W	Psychology of decision	1				K2_ZARZ_W11 K2_ZARZ_W12	10	30	1	0,3	T	Z			K	Ob
15	PSZ1155S	Psychology of decision				1	K2_ZARZ_U05 K2_ZARZ_U18 K2_ZARZ_K03 K2_ZARZ_K04 K2_ZARZ_K02 K2_ZARZ_K06 K2_ZARZ_K09 K2_ZARZ_K08	10	30	1	0,3	T	Z		P	K	Ob
16	FBZ1184W	Managerial Accounting	1				K2_ZARZ_W06 K2_ZARZ_W07	10	60	2	0,3	T	Z			K	Ob
17	FBZ1184C	Managerial Accounting		1			K2_ZARZ_U02 K2_ZARZ_U14 K2_ZARZ_U18 K2_ZARZ_U03 K2_ZARZ_U08	10	60	2	0,3	T	Z		P	K	Ob

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18	ZMZ1559W	Project Management	1					S2_ZDM_W12	10	90	3	0,3	T	E			K	Ob
19	ZMZ1559C	Project Management		1				S2_ZDM_U11 S2_ZDM_U10 S2_ZDM_U08 S2_ZDM_U06 S2_ZDM_U04	10	30	1	0,3	T	Z		P	K	Ob
20	ZMZ1556W	Strategic Management	2					K2_ZARZ_W03	20	150	5	0,7	T	E			K	Ob
21	ZMZ1556P	Strategic Management				1		K2_ZARZ_U02 K2_ZARZ_U18 K2_ZARZ_U03 K2_ZARZ_U06 K2_ZARZ_U09 K2_ZARZ_K02 K2_ZARZ_K01	10	60	2	0,3	T	Z		P	K	Ob
22	FBZ1185W	Value Based Management	1					K2_ZARZ_W07	10	60	2	0,3	T	Z			K	Ob
23	FBZ1185P	Value Based Management				1		K2_ZARZ_U08	10	60	2	0,3	T	Z		P	K	Ob
24	IEZ1195W	Integrated Management Information Systems	1					K2_ZARZ_W14	10	30	1	0,3	T	Z			K	Ob
25	IEZ1195L	Integrated Management Information Systems			1			K2_ZARZ_U13	10	30	1	0,3	T	Z		P	K	Ob
Total			16	6	1	5	3		310	1530	51	10,3						

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
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lec	cl	lab	pr	sem				
16	6	1	5	3	310	1530	51	10,3

4.2 List of optional modules

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																	

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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	
		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				

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

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 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																	

4.2.2.2 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	

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																	

Altogether for basic sciences 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				

4.2.3 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	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes ¹
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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

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

⁷ Optional – enter W, obligatory – enter Ob

					hours			
lec	cl	lab	pr	sem				

4.2.4 List of specialization modules

4.2.4.1 Specialization subjects (e.g. whole specialization) modules (min. . 48... 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	ZMZ1557P	Master thesis I				2		S2_ZDM_U08 S2_ZDM_U03	20	210	7	0,0	T	Z		P	S	Ob
2	ZMZ1562D	Master thesis II				2		S2_ZDM_U06 S2_ZDM_U08 S2_ZDM_U03	20	180	6	0,0	T	Z		P	S	Ob
3	ZMZ1563W	Entrepreneurship & Innovation	2					S2_ZDM_W03	20	60	2	0,7	T	Z			S	Ob
4	PSZ1156W	Psychology of decision	1					S2_ZDM_W11 S2_ZDM_W13	10	30	1	0,3	T	Z			S	Ob
5	PSZ1156S	Psychology of decision					1	S2_ZDM_U11 S2_ZDM_U10	10	30	1	0,3	T	Z		P	S	Ob
6	FBZ1183W	Introduction to accounting and corporate finance	2					S2_ZDM_W09 S2_ZDM_W08	20	150	5	0,7	T	E			S	Ob
7	FBZ1183C	Introduction to accounting and corporate finance		2				S2_ZDM_U03 S2_ZDM_U09 S2_ZDM_U01 S2_ZDM_U08 S2_ZDM_U06 S2_ZDM_U02 S2_ZDM_U05	20	60	2	0,7	T	Z		P	S	Ob
8	ZMZ1537S	Diploma seminar I					1	K2_ZARZ_U04 K2_ZARZ_U18 K2_ZARZ_K01 K2_ZARZ_K08 K2_ZARZ_U16	10	60	2	0,3	T	Z		P	S	Ob
9	ZMZ2589S	Diploma seminar II					1	K2_ZARZ_U18 K2_ZARZ_K01 K2_ZARZ_K08 K2_ZARZ_U15 K2_ZARZ_U16 K2_ZARZ_U17 K2_ZARZ_U04 K2_ZARZ_U03 K2_ZARZ_U06 K2_ZARZ_U05	10	60	2	0,3	T	Z		P	S	Ob

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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

10	ZMZ3505S	Diploma seminar III					1	K2_ZARZ_K01 K2_ZARZ_K08 K2_ZARZ_U15 K2_ZARZ_U16 K2_ZARZ_U17 K2_ZARZ_U04 K2_ZARZ_U03 K2_ZARZ_U06 K2_ZARZ_U05	10	60	2	0,3	T	Z		P	S	Ob
11	ZMZ1184L	Management Training			2			S2_ZDM_W11 S2_ZDM_W09 S2_ZDM_U03 S2_ZDM_U10	20	60	2	0,7	T	Z		P	S	Ob
12	ZMZ1558W	Managerial Behavior and Decisions	1					S2_ZDM_W11 S2_ZDM_W04 S2_ZDM_W09 S2_ZDM_W03	10	90	3	0,3	T	E			S	Ob
13	ZMZ1558S	Managerial Behavior and Decisions					1	S2_ZDM_U11 S2_ZDM_U08 S2_ZDM_U02 S2_ZDM_U09 S2_ZDM_U07	10	30	1	0,3	T	Z		P	S	Ob
14	ZMZ1564W	Quality management	2					S2_ZDM_W07	20	60	2	0,7	T	Z			S	Ob
15	ZMZ1564P	Quality management				1		S2_ZDM_U08 S2_ZDM_U09	10	60	2	0,3	T	Z		P	S	Ob
16	ZMZ1554W	Logistics Management in Enterprise	2					S2_ZDM_W06	20	60	2	0,7	T	Z			S	Ob
17	ZMZ1554L	Logistics Management in Enterprise			1			S2_ZDM_U03 S2_ZDM_U08 S2_ZDM_U06 S2_ZDM_U02 S2_ZDM_U05 S2_ZDM_U09	10	60	2	0,3	T	Z		P	S	Ob
18	ZMZ1555W	Personnel management	1					S2_ZDM_W13	10	60	2	0,3	T	Z			S	Ob
19	ZMZ1555P	Personnel management				1		S2_ZDM_U11 S2_ZDM_U03 S2_ZDM_U08 S2_ZDM_U05 S2_ZDM_U09 S2_ZDM_U10	10	60	2	0,3	T	Z		P	S	Ob
Total			11	2	3	6	5		270	1440	48	7,7						

Legal-economic module I (min. .2... pkt ECTS)

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

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

⁷Optional – enter W, obligatory – enter Ob

1	PRZ1149W	LEGAL AND ECONOMIC CIRCUMSTANCES OF MAKING A BUSINESS	1					S2_ZDM_W03 S2_ZDM_W01 S2_ZDM_W02	10	30	1	0,3	T	Z			S	W
2	PRZ1149C	LEGAL AND ECONOMIC CIRCUMSTANCES OF MAKING A BUSINESS		1				S2_ZDM_U02 S2_ZDM_U01	10	30	1	0,3	T	Z		P	S	W
3	EKZ1157W	Theory and practice of economic regulation	1					S2_ZDM_W03 S2_ZDM_W01 S2_ZDM_W02	10	30	1	0,3	T	Z			S	W
4	EKZ1157C	Theory and practice of economic regulation		1				S2_ZDM_U02 S2_ZDM_U01	10	30	1	0,3	T	Z		P	S	W
Total																		

Legal-economic module II (min. .2... pkt ECTS)

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	EKZ1158W	INTERNATIONAL BUSINESS ENVIRONMENT	1					S2_ZDM_W03 S2_ZDM_W01 S2_ZDM_W02	10	30	1	0,3	T	Z			S	W
2	EKZ1158C	INTERNATIONAL BUSINESS ENVIRONMENT		1				S2_ZDM_U02 S2_ZDM_U01	10	30	1	0,3	T	Z		P	S	W
3	PRZ1150W	Law and ethics in marketing	1					S2_ZDM_W03 S2_ZDM_W01 S2_ZDM_W02	10	30	1	0,3	T	Z			S	W
4	PRZ1150C	Law and ethics in marketing		1				S2_ZDM_U02 S2_ZDM_U01	10	30	1	0,3	T	Z		P	S	W
5	PRZ1151W	Agreement in trade	1					S2_ZDM_W03 S2_ZDM_W01 S2_ZDM_W02	10	30	1	0,3	T	Z			S	W
6	PRZ1151C	Agreement in trade		1				S2_ZDM_U02 S2_ZDM_U01	10	30	1	0,3	T	Z		P	S	W
Total																		

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				

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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

13	4	3	6	5	310	1560	52	11,5
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4.3 Training module (Faculty Council resolution on principles of crediting training – attachment no. ...)

Name of training			
Number of ECTS points	Number of ECTS points for BK classes¹	Training crediting mode	Code
Training duration		Training objective	

4.4 Diploma dissertation module

Type of diploma dissertation	magisterska		
Number of diploma dissertation semesters	Number of ECTS points	Code	
19	2	ZMZ1537S	Diploma seminar I
	2	ZMZ2589S	Diploma seminar II
	2	ZMZ3505S	Diploma seminar III
	7	ZMZ1557P	Master thesis I
	6	ZMZ1562D	Master thesis II
Character of diploma dissertation			
Literature survey, project, computer program, etc.			
Number of BK¹ ECTS points	19		

5. Ways of verifying assumed educational effects

Type of classes	Ways of verifying assumed educational effects
lecture	e.g. examination, progress/final test

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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

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

class	e.g. progress/final test
laboratory	e.g. pretest, report from laboratory
project	e.g. project defence
seminar	e.g. participation in discussion, topic presentation, essay
training	e.g. report from training
diploma dissertation	prepared diploma dissertation

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)

113..... ECTS

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

Number of ECTS points for obligatory subjects	14
Number of ECTS points for optional subjects	0
Total number of ECTS points	14

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	61
Number of ECTS points for optional subjects	2
Total number of ECTS points	63

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)

3..... ECTS points

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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

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

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

55..... ECTS points

11. Range of diploma dissertation

Symbol of Learnig Outcome	Exam question
K2_ZARZ_W01	1. Theories of regulation and their relationship to classical schools / economic trends. 2. Determinants of economic growth and development in the Keynesian and neo-liberal thinking.
K2_ZARZ_W02	1. Impact of competition policy and industrial policy measures in the EU market companies. 2 Pan-European organizational and legal forms of doing business. 3. Tools of economic and legal consequences of de-monopolization of markets.
K2_ZARZ_W03	1. Methods for the strategic analysis of environment and the potential of the organization. 2. The essence of strategic management. Schools and trends in strategic management. 3. Institutional and financial instruments to support the competitiveness and innovation of enterprises in the European Union. 4. Forms of internationalization of the company.
K2_ZARZ_W04	1. Models of growth and development of the organization. 2. Smart organization features.
K2_ZARZ_W05	1. Knowledge management in organizations - the objectives, functions, models and instruments - examples. 2. Strategies for knowledge management in an organization. 3. Institutional and non-institutional forms of intellectual property protection.

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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

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⁷ Optional – enter W, obligatory – enter Ob

K2_ZARZ_W06	<ol style="list-style-type: none"> 1. Methods for calculating the costs and scope of their application. 2. Methods for determining the value of the company. 3. Instruments of strategic and operational controlling.
K2_ZARZ_W07	<ol style="list-style-type: none"> 1. Integrated scorecard as a method of monitoring the achievement of strategic objectives. 2. The roles and tasks of the budget process. 3. Characterises the creation of value-added measures. 4. Methods for measuring and evaluating the achievements of the organization as a whole and for its individual parts (responsibility centers).
K2_ZARZ_W08	<ol style="list-style-type: none"> 1. Management by Objectives (MbO) – idea, concept, procedures and applications. 2. Contemporary and classic structural solutions for management concept - similarities and differences. 3. Essence, concepts and organizational procedures of controlling. 4. VBM Value Based Management.
K2_ZARZ_W10	<ol style="list-style-type: none"> 1. Psychological contract as a determinant of organizational culture. 2. Range of objective and subjective prohibited commercial practices. 3. The role of a good practice in consumer – economic organization relationship.
K2_ZARZ_W11	<ol style="list-style-type: none"> 1. The essence of leadership in the organization. Concepts and leadership styles. 2. Conflict management, the concept of conflict, the sources and types of conflict in the organization, methods of solving interpersonal and intergroup conflict. 3. The decision making process, individual and situational factors. 4. Influence of motivation on human behavior in the aspect of achieving individual and common goals.

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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

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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⁷ Optional – enter W, obligatory – enter Ob

K2_ZARZ_W12	<ol style="list-style-type: none"> 1. Instruments for creating intra-entrepreneurship in organization. 2. Psychological aspects of resistance to change and methods of overcoming them. 3. Inhibitors and stimulants of the process of creative thinking. Techniques for creative approach in problem solving.
K2_ZARZ_W13	<ol style="list-style-type: none"> 1. Methods of Operations Research - the purpose and scope of application in management - examples. 2. The role of the significance level in statistical hypothesis testing. 3. The components of the time series. Forecasting methods based on time series. 4. Simulation methods. The process simulation. Objectives of simulation - examples of applications..
K2_ZARZ_W14	<ol style="list-style-type: none"> 1. Common strategies for support management by IT techniques in industrial enterprises.
S2_ZDM_W01	<ol style="list-style-type: none"> 1. The market and its components in term of classical (orthodox) economic and in term of the liberal approach. 2. Basic measures for comparison of national economies and their utility for decision making processes in enterprise. 3. The conditions and the types of economic and social regulation in national economies. 4. The concept of the regulatory state - basic determinants.
S2_ZDM_W02	<ol style="list-style-type: none"> 1. Kinds and types of organizations. Purposes of organization. 2. Legal and organizational forms of ownership of enterprises.
S2_ZDM_W03	<ol style="list-style-type: none"> 1. Closer and further business environment, the types of relationships with the environment and their impact on the company. 2. Sociological, economic and political determinants of organizational behavior on the national or global levels.
S2_ZDM_W04	<ol style="list-style-type: none"> 1. The objectives and functions of management . 2. Model of organization, the nature of its components and relationships between components. 3. The life cycle of the organization, the individual and group behavior and attitude to organization.

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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

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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⁷ Optional – enter W, obligatory – enter Ob

S2_ZDM_W05	<ol style="list-style-type: none"> 1. Organizational structure - conditions and dynamics. 2. Functional orientation and process orientation in management of the organization.
S2_ZDM_W06	<ol style="list-style-type: none"> 1. The essence of logistics, its pillars and levels of integration logistics processes. 2. Goals and strategies for production management in market economy.
S2_ZDM_W07	<ol style="list-style-type: none"> 1. Comparison of Total Quality Management (TQM) and a system of quality management based on ISO 9000 series norm. 2. Purposes and stages of DMAIC methodology (Define – Measure – Analyze – Improve – Control) applied in Six Sigma approach.
S2_ZDM_W08	<ol style="list-style-type: none"> 1. Property and capital of enterprise - balance sheet. Income and expenses – financial result. Cash flow. 2. Principles of accountant operation of accounts. Chart of Accounts. 3. Investment of capital - investment in kind or cash. Methods for assessment the effectiveness of investments.
S2_ZDM_W09	<ol style="list-style-type: none"> 1. Financial analysis in terms of problems - analysis of financial liquidity, profitability, equity and capital structure. 2. Matured organization - a method of building cohesion and consolidation of organizational behavior designed to reduce the risk of failure of the organization.
S2_ZDM_W10	<ol style="list-style-type: none"> 1. Objectives, stages and tools of marketing management. 2. The concept of marketing and its place in the activity of the company. Basic principles of marketing.

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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

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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⁷ Optional – enter W, obligatory – enter Ob

S2_ZDM_W11	1. Algorithmic and heuristic processes in decision making: a comparison of both types of processes, examples of heuristics. 2. Inter-organizational behavior: sources, mechanisms and results of specific behavior, selection of behavior in term of strategy.
S2_ZDM_W12	1. Initial phase of project - the objectives, principles, actions related to initial phase, types of documents. 2. Project management structure - objectives, principles, advantages and disadvantages of application.
S2_ZDM_W13	1. Structure of tasks for personnel and instruments for its implementation. 2. Principles of construction and functioning of the teams in the organization and factors influencing their performance.

12. Requirements concerning deadlines for crediting courses/groups of courses for all courses in particular modules - [no requirements](#)

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

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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

13. Plan of studies (attachment no. 4.....)

Approved by faculty student government legislative body:

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

.....
Date, Dean's signature

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