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Uniwersytet Technologiczno-Humanistyczny im. Kazimierza Pułaskiego w Radomiu

Study programme MECHANICS AND MACHINE CONSTRUCTION First-cycle Education profile: general academic full-time and part-time

Radom 2023.

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I. GENERAL CHARACTERISTICS OF THE STUDY

1 The name of the field of study

Mechanics and machine construction

2 ISCED classification

0715 - Mechanics and metallurgy

3 Educational level

First- cycle studies

4 PRK (Polish Qualifications Framework) level

The studies correspond to Polish Qualifications Framework level six

5 Education profile

general academic

6 Science discipline

The field of study *Mechanics and machine construction* is assigned to the discipline: *me-chanical engineering*.

7 Percentage share of the number of ECTS credits for each discipline

For the *Mechanics and machine construction*, 100% of the number of ECTS credits is assigned to the *mechanical engineering* discipline.

8 Name of qualification and the title conferred

After completion of the first-cycle programme the graduate of *Mechanics and machine construction* is conferred the title **inżynier**.

II. FIELD OF STUDY LEARNING OUTCOMES:

1 Table of references of the field of study learning outcomes to the universal characteristics of the first-cycle studies specified in the ZSK Act and the characteristics of the second-cycle studies specified in the regulations issued on the basis of Article 7, paragraph 3 of the ZSK Act.

No.	Symbol of the field of study learning outcomes	Description of the field of study learning outcomes	The universal characteristics of the first-cy- cle studies (U)	Characteristics of second-cycle learn- ing outcomes for PRK qualifica- tion level six (S)
			symbol	symbol
		KNOWLEDGE - after completion of the first-cycle prog	ramme the gradua	ate
1	K_WG01	 has knowledge in mathematics concerning: algebra, mathematical analysis, probability theory and selected numerical methods, including the knowledge necessary for: modeling and analysis of mechanical systems; performing calculations in the design of technological processes; description and prediction of operating characteristics of technical equipment, technical facilities and systems; 		P6S_WG
2	K_WG02	has knowledge in the area of physics, including the basics of mechanics, thermodynamics, optics, electricity and magnetism, nuclear physics, solid state physics and elements of quantum physics, including the knowledge needed to understand, de- scribe and use physical phenomena in the design, manufacturing and operation of mechanical systems;		P6S_WG
3	K_WG03	has the basic knowledge in the area of chemistry needed to un- derstand and describe the phenomena occurring in the manufac- ture and operation of machine components;		P6S_WG
4	K_WG04	knows and understands the principles of engineering graphics and the tools used in the preparation of technical documentation;		P6S_WG
5	K_WG05	has a well-organized, theoretically based knowledge in the area of statics of rigid body systems and rigid body kinematics and dynamics, and has a basic knowledge of vibration and noise;	P6U_W	P6S_WG
6	K_WG06	has knowledge in the area of strength analysis of basic mechan- ical structures;		P6S_WG
7	K_WG07	has an elementary knowledge of fluid mechanics and technical thermodynamics required to understand the construction and op- eration of mechanical, mechatronic or power equipment;		P6S_WG
8	K_WG08	has elementary knowledge of electrical engineering, electronics, automatics, and computer science in applications in mechanics, mechatronics, or power engineering;		P6S_WG
9	K_WG09	knows and understands the principles of design of machine parts, mechanical structures and power equipment;		P6S_WG
10	K_WG10	knows and understands selected issues of mechanical engineer- ing, operation, condition diagnosis, repair technology and safe operation;		P6S_WG
11	K_WG11	has knowledge of computer-aided design, manufacturing and operation of mechanical, mechatronic or power machines and equipment;		P6S_WG

12	K_WG12	has a basic knowledge of metrology, knows and understands the methods of measurement of basic quantities characteristic of mechanical and equipment engineering, knows the calculation methods and computer tools necessary for the analysis of exper- imental results;		P6S_WG
13	K_WG13	has knowledge of engineering materials, their research and forming technologies;		P6S_WG
14	K_WG14	has basic knowledge of development trends in the area of de- sign, manufacturing, construction and operation of machinery and equipment;		P6S_WG
15	K_WG15	has a basic knowledge of the life cycle of mechanical, mecha- tronic or power machinery and equipment;		P6S_WG
16	K_WG16	knows and understands the basic methods, techniques and tools required for solving simple engineering tasks in the area of con- struction, manufacturing technology and operation of machin- ery;		P6S_WG
17	K_WG17	has elementary knowledge of numerical methods used in simu- lation and analysis of mechanical systems, as well as in the pro- cess of their design, manufacturing and operation;		P6S_WG
18	K_WG18	has basic knowledge of the basics of mechatronics, industrial mechatronics, automotive mechatronics, PLCs and industrial automatic control structures;		P6S_WG
19	K_WG19	has basic knowledge of industrial sensors, automotive sensors, robotics, and the construction, programming and control of ro- bots and manipulators;		P6S_WG
20	K_WK20	knows the basic legal, economic, environmental and other non- technical conditions related to professional activity, including the development of individual entrepreneurship;		P6S_WK
21	K_WK21	has basic knowledge of management, including quality manage- ment, production management, logistics and conducting busi- ness activity;		P6S_WK
22	K_WK22	knows and understands the concepts and principles in the area of the protection of industrial property and copyright law.		P6S_WK
23	K_WK23	understands the impact of social and civilization changes on the lifestyle of local, regional, national and world communities.		P6S_WK
		SKILLS – after completion of the first-cycle program	nme the graduate .	••
		is able to acquire information from the literature, databases and		
24	K_UW01	other sources, including in English or another foreign language; is able to integrate obtained information, interpret it, as well as draw conclusions and formulate and justify opinions		P6S_UW
25	K_UW02	can use analytical, simulation and experimental methods to for- mulate and solve engineering tasks.		P6S_UW
26	K_UW03	is able to perceive their system and non-technical aspects when formulating and solving engineering tasks;		P6S_UW
27	K_UW04	is able to make a preliminary economic analysis of the engineer- ing activities undertaken in the design, manufacture and opera- tion of machinery and equipment;		P6S_UW
28	K_UW05	is able to use computer methods in solving engineering tasks in the field of design, manufacturing and operation of machinery and equipment;	P6U_U	P6S_UW
29	K_UW06	can use measurement apparatus and methods of estimating measurement errors;		P6S_UW
30	K_UW07	is able to critically analyze how things work and evaluate exist- ing technical solutions, equipment, facilities, systems, processes and services in the construction, manufacture and operation of machinery and equipment;		P6S_UW
31	K_UW08	is able to identify and formulate specifications for simple engi- neering tasks of a practical nature in the design, manufacture and operation of machinery and equipment;		P6S_UW

32	K_UW09	is able to assess the suitability of routine methods and tools for solving a simple engineering task of a practical nature in the de- sign, manufacture and operation of machinery and equipment, and select and apply the appropriate method and tools;		P6S_UW
33	K_UW10	is able to, according to the given specification, design and im- plement a simple device, object, system or process, typical of the process of designing, manufacturing and operating machin- ery and equipment, using appropriate methods, techniques and tools;		P6S_UW
34	K_UW11	can select appropriate engineering materials for the correct op- eration of machinery and equipment;		P6S_UW
35	K_UW12	is able to use information and communication technologies ap- propriate for the performance of tasks in the design, manufac- ture and operation of machinery and equipment;		P6S_UW
36	K_UW13	can plan and conduct experiments, including measurements and computer simulations, interpret the results obtained and draw conclusions;		P6S_UW
37	K_UW14	is able to use relevant databases in the process of designing, manufacturing and operating machinery and equipment;		P6S_UW
38	K_UK15	can communicate using a variety of techniques in professional and other settings		P6U_UK
39	K_UK16	is able to prepare a study of problems of basic engineering issues in Polish, also in English or another foreign language recognized as the language of international communication;		P6U_UK
40	K_UK17	is able to produce coherent oral and written statements in Eng- lish or another foreign language recognized as a language of in- ternational communication at the B2 level, including on engi- neering issues;		P6U_UK
41	K_UK18	is able to search, analyze and use information from sources in English or another foreign language recognized as the language of international communication at the B2 level, including the design, manufacture and operation of machinery and equipment;		P6U_UK
42	K_UO19	is able to work and interact in a group speaking English or an- other foreign language recognized as a language of international communication at the B2 level, including in the scope relevant to the field of study, taking various roles;		P6S_UO
43	K_UO20	is able to cooperate and act in a group, taking on different roles;		P6S_UO
44	К ЦП[21	is aware of the need of life-long learning and is able to choose		
	<u>m_0021</u>	learning methods appropriate for himself/ herself and others.		100_00
	SC	OCIAL COMPETENCES (K) - after completion of the first-cy	cle programme the	e graduate
45	K_KK01	is ready to complete and critically evaluate specialized knowledge and is able to select sources of knowledge and meth- ods of learning appropriate for himself/herself and others;		P6S_KK
46	K_KK02	is willing to comprehensively analyze and effectively carry out assigned tasks, and in the event of difficulties in solving them, use expert opinion;		P6S_KK
47	K_KO03	is aware of the non-technical aspects of the activities of a me- chanical engineer, including, but not limited to, its social conse- quences and impact on the environment;		P6S_KO
48	K_KO04	is aware of the responsibility associated with decisions, made in the framework of engineering activities, especially in terms of his/her own safety and the safety of others and protection of the environment;	P6U_K	P6S_KO
49	K_KO05	is willing to demonstrate entrepreneurship and ingenuity in ac- tivities related to the implementation of professional tasks;		P6S_KO
50	K_KR06	is aware of the importance of the social role of the engineer and the need to take part in providing the public with reliable infor- mation and opinions on the achievements of technology and other aspects of technology, especially in the field of mechanics, construction and operation of machinery and equipment;		P6S_KR

51	K_KR07	is aware of the importance of professional conduct, adherence to professional ethics and respect for diversity of views and cul- tures.	P6S_KR
	Nı	imber of outcomes: 23 W 21 U 7 K	

2 Table of coverage of second-cycle characteristics of learning outcomes by the field of study learning outcomes (KEU).

	COVERAGE TABLE CHARACTERISTICS OF SECOND-CYCLE LEARNING OUTCOMES BY THE FIELD OF STUDY LEARNING OUTCOMES						
No.	Characteristics of the second cycle learning out- comes for qualifications at PRK level six (S) symbol	Field of study learning outcomes: (KEU) symbol					
	KNOW	/LEDGE (W)					
1.	P6S_WG	K_WG01 – K_WG19					
2.	P6S_WK	K_WK20 - K_WK23					
SKILLS (U)							
3.	P6S_UW	K_UW01 – K_UW14					
4.	P6S_UK	K_UK15 – K_UK18					
5.	P6S_UO	K_UO19 – K_UO20					
6.	P6S_UU	K_UU21					
	SOCIAL CO	DMPETENCES (K)					
7.	P6S_KK	K_KK01, K_KK02					
8.	P6S_KO	K_KO03, K_KO04,K_KO05					
9.	P6S_KR	K_KR06, K_KR07					
Σ	Information on the number of covered characteristics c within higher education (S) - 9	of the second-cycle level of the PRK typical for qualifications obtained					

3 Table of coverage of the characteristics of the second-cycle learning outcomes enabling engineering competence by the field of study learning outcomes

	TABLE OF COVERAGE OF SECOND-CYCLE CHARACTERISTICS OF LEARNING OUTCOMES ENABLING ENGINEERING COMPETENCE BY THE FIELD OF STUDY LEARNIG OUTCOMES						
No.	Symbol	Description of the characteristics of the second-cycle learn- ing outcomes to achieve engineering competence	Reference to the field of study learning outcomes (KEU)				
	KNOWLE	EDGE - after completion of the second-cycle programme the gr	aduate knows				
1.	P6S_WG	basic processes occurring in the life cycle of equipment, objects and technical systems	K_WG01 - K_WG019				
2.	P6S_WK	basic principles of creation and development of various forms of individual entrepreneurship	K_WK20 - K_WK21				
SKILLS - after completion of the second-cycle programme the graduate is able to							
3.	P6S_UW	 plan and conduct experiments, including measurements and computer simulations, interpret the results obtained and draw conclusions For identifying and formulating specifications for engineering tasks and solving them can use analytical, simulation, and experimental methods, can recognize their systemic and non-technical aspects, including ethical aspects, can make a preliminary economic assessment of the proposed solutions and engineering actions taken 	K_UW13 K_UW01 – K_UW06, K_UW08				
		make a critical analysis of how existing technical solutions work and evaluate these solutions	K_UW07				
		design - according to a given specification - and construct simple devices, objects, systems or implement processes typical for the field of study, using appropriately selected methods, techniques, tools and materials	K_UW09, K_UW14				

III. STUDY PROGRAMME DESCRIPTION

1 Mode of study

Studies in the field of *Mechanics and machine construction* are conducted in the form of full-time and part-time studies.

2 Number of ECTS credits required for graduation

The number of ECTS credits required for graduation (obtaining a tile of **inżynier**) in *Me*chanics and machine construction is 210.

3 Number of semesters

Number of semesters in the field of *Mechanics and machine construction* for studies conducted in the form of full-time and part-time studies is **7**.

4 The curriculum

The curriculum for the Bachelor's degree programme in *Mechanics and machine construction* separately for each mode of study constitutes **Appendix 1**.

5 Description of individual courses

Description of individual courses (syllabuses) taught in the field of *Mechanics and machine construction* constitutes **Appendix No. 2**.

6 Learning outcomes matrix

Matrix of learning outcomes for the Bachelor's degree programme for the field of *Mechanics and machine construction* constitutes **Appendix No. 3**.

7 Summary quantitative indicators characterizing the study programme.

Full-time students must obtain 116.9 (55.7%) ECTS credits in courses requiring direct participation of academic teachers, while for part-time students 77.8 (37%) ECTS credits.

The number of ECTS credits a student receives for research-related activities is 123.5 (58.8%) ECTS.

The total number of ECTS credits from elective courses, both full-time and part-time, is 88, which is about 42% of the total number of ECTS credits in the course of study. Details are summarized in Tables 1, 2 and 3.

Table 1. Summary quantitative indicators of the study programme

No.	Summary quantitative indicators of the study programme	ECTS
1	The total number of ECTS credits allocated to courses with direct participation of academic teachers or	116.9*
1	other instructors and students:	77 .8 **
2	Total number of ECTS credits allocated to elective courses	88
3	Total number of ECTS credits assigned to courses in the humanities or social sciences:	5
	Total number of ECTS credits assigned to courses:	
4	- related to the conducted scientific research in the discipline(s) relevant to the field of study - in the	123.5
	case of a field of study with a general academic education profile	
	The total number of ECTS credits assigned to the courses related to the disciplines to which the field	
5	of study is assigned:	210
	- mechanical engineering discipline	

* number of credits for studies conducted in a full-time study mode. ** number of credits for studies conducted in a part-time study mode

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Table 2. A group of courses related to the conducted scientific research

A group of courses related to ongoing research in the discipline relevant to the field of study							
Course (name)	Type(s) of the course*	Number hours ful	Number of instruction hours full-time/ part-time		Number of ECTS credits		
Physics	W/Ć/L	90	/	56	8		
Chemistry	W/L	30	/	20	4		
Engineering mechanics I	W/Ć	90	/	60	9		
Strength of materials 2	W/Ć/L	90	/	56	7		
Fluid mechanics	W/Ć/L	45	/	32	4		
Basics of technical thermodynamics	W/Ć/L	60	/	36	5		
Materials science	W/L	75	/	44	7		
Theory of machines	W	30	/	16	2		
Technologies of industry 4.0	W	15	/	8	1		
Manufacturing engineering	W/L	75	/	40	5		
Finite element method I	W/L	30	/	20	3		
Fundamentals of technical diagnostics	W/L	45	/	24	3		
Transmission system design	W/P	45	/	24	3		
Mechatronics and Automatics	W/L	60	/	32	5		
Machinery production technology	W/L	45	/	28	3.5		
Basics of machine design	W/P	135	/	92	12		
Group A+	-B combined:	960	/	588	81.5		
Kinematics and dynamics of multibody systems	W/L	45	/	24	3		
Mechanics of structures	W/Ć/L	75	/	44	5		
Mechanical vibration	W/P	60	/	32	4		
Finite element method II	L	60	/	36	4		
Software packages in mechanics	L	60	/	32	4		
3D printing	W/L/P	45	/	32	3		
Computer structural analysis	W/P	45	/	24	3		
Numerical modeling of heat-flow problems	W/L	45	/	24	3		
Industrial Controllers PLC	W/L	30	/	20	2		
Optimization of construction	W/P	45	/	24	3		
Embedded systems	W/L	45	/	24	3		
Numerical modeling of fluid-structure interaction	W/P	45	/	24	3		
Application of CAD/CAE systems	Р	30	/	20	2		

Course gr	Course group C1 total:				
Special technologies	W/P	60	/	32	4
Basics of nanotechnology	W/L	30	/	20	2
Dimensional analysis for industry	W/Ć	30	/	20	2
CNC machine tools	W/L	45	/	24	3
Machining and tools	W/L	30	/	20	2
Measurement systems and uncertainty estimation	W/Ć	30	/	20	2
Advanced solid modeling in CAD systems	Р	30	/	16	2
Designing energy devices	W/P	45	/	24	2
Modern constructional materials	W/L	60	/	32	4
Theory of mechanisms and machines	W/P	45	/	24	3
Programming of CNC machine tools	W/P	60	/	32	4
Design of technological instrumentation	W/P	30	/	20	2
Design of technological processes of machine parts	W/P	45	/	24	3
Modeling and analysis of structures	W/L	60	/	32	4
Surface engineering	W/L	30	/	20	2
Course gr	oup C2 total:	630	/	360	42
Total C1. CAE Computer Aided Engineering course group		1590	/	948	123.5
Total C2. Group of courses in the field of machine design and manufacturing		1590	/	948	123.5

* W – lecture, \acute{C} – classes, L – laboratory classes, P – project, ZBN – self-taught classes

A group of activities for the student's acquisition of engineering competence					
Course (name)	Type(s) of the course*	ype(s) of e course* Number of instruction hours full-time/ part- time		Number of ECTS credits	
Mathematics	W/Ć	150	/	90	12
Physics	W/Ć/L	90	/	56	8
Chemistry	W/L	30	/	20	4
Engineering mechanics I	W/Ć	90	/	60	9
Strength of materials 2	W/Ć/L	90	/	56	7
Fluid mechanics	W/Ć/L	45	/	32	4
Basics of technical thermodynamics	W/Ć/L	60	/	36	5
Engineering graphics	W/L	105	/	60	7
Materials science	W/L	75	/	44	7
Theory of machines	W	30	/	16	2
Environmental management and ecology	W	15	/	8	1
Work safety and ergonomics	W	15	/	8	1
Technologies of industry 4.0	W	15	/	8	1
Experiment theory	Р	30	/	16	2
CAD solid modeling	L	30	/	20	2,5
Manufacturing engineering	W/L	75	/	40	5
Metrology and measurement systems	W/L	45	/	28	3,5
Electrical engineering and electronics	W/L	60	/	32	4
Finite element method I	W/L	30	/	20	3
Fundamentals of technical diagnostics	W/L	45	/	24	3
Transmission system design	W/P	45	/	24	3
Mechatronics and Automatics	W/L	60	/	32	5
Machinery production technology	W/L	45	/	28	3,5
Basics of machine design	W/P	135	/	92	12
Groups A+	B combined:	1410	/	850	114,5
Programming and numerical methods	W/P	30	/	20	2
Elective project	Р	30	/	16	2
Kinematics and dynamics of multibody systems	W/L	45	/	24	3
Mechanics of structures	W/Ć/L	75	/	44	5
Mechanical vibration	W/P	60	/	32	4
Computer aided design	W/L/P	90	/	48	6
Finite element method II	L	60	/	36	4
Software packages in mechanics	L	60	/	32	4
3D printing	W/L/P	45	/	32	3
Computer structural analysis	W/P	45	/	24	3
Numerical modeling of heat-flow problems	W/L	45	/	24	3
Industrial Controllers PLC	W/L	30	/	20	2
Senior project	S	30	/	16	2
Optimization of construction	W/P	45	/	24	3
Embedded systems	W/L	45	/	24	3
Numerical modeling of fluid-structure interaction	W/P	45	/	24	3
Application of CAD/CAE systems	Р	30	/	16	2
ERP systems	W/P	30	/	20	2
System engineering	W/P	30	/	20	2
Industrial robots	W/P	30	/	20	2
Measurements and analysis of signals	W/P	30	/	20	2
Reverse engineering	W/P	30	/	20	2

Table 3 A group	of activities for	\cdot the student's	acquisition of	f engineering	comnetence
Table 5. It group	of activities for	the student s	acquisition	i engineering	competence

Course group C1 total:		900	/	516	60
Special technologies	W/P	60	/	32	4
Basics of nanotechnology	W/L	30	/	20	2
Dimensional analysis for industry	W/Ć	30	/	20	2
CNC machine tools	W/L	45	/	24	3
Machining and tools	W/L	30	/	20	2
Measurement systems and uncertainty estimation	W/Ć	30	/	20	2
Advanced solid modeling in CAD systems	Р	30	/	16	2
Designing energy devices	W/P	45	/	24	3
Student project	Р	45	/	24	3
Modern constructional materials	W/L	60	/	32	4
CAM systems	W/P	60	/	32	4
Theory of mechanisms and machines	W/P	45	/	24	3
Programming of CNC machine tools	W/P	60	/	32	4
Design of technological instrumentation	W/P	30	/	20	2
Design of technological processes of machine parts	W/P	45	/	24	3
Modeling and analysis of structures	W/L	60	/	32	4
Senior project	S	30	/	16	2
Surface engineering	W/L	30	/	20	2
Composite products technology	W/Ć/L	45	/	28	3
Methods of materials testing	W/Ć/L	45	/	28	3
Automation of manufacturing processes	W/Ć/L	45	/	28	3
Quality management systems	W/Ć/L	45	/	28	3
Machine construction	W/Ć/L	45	/	28	3
Energy-consuming and material-consuming production	W/Ć/L	45	/	28	3
Course group C2 total:		900	/	516	60
Legal and economic aspects of entrepreneurship	W	30	/	20	3
Apprenticeship (4 weeks)	Other	0	/	0	5
Diploma Seminar	S	30	/	20	4
Preparation and submission of the thesis	ZBN	0	/	0	15
Course group D + E + F + H total:		90	/	51	27
Total C1. CAE Computer Aided Engineering course group		2370	/	1406	201,5
Total C2. Group of courses in the field of Machine design and manufacturing		2370	/	1406	201,5

* W - lecture, \acute{C} - classes, L - laboratory classes, P - project, ZBN - self-taught classes

8 Apprenticeship

Apprenticeship in the field *Mechanics and machine construction* is carried out in accordance with the following documents:

- University Regulations (*Regulamin Studiów Uniwersytetu Technologiczno-Humanistycznego w Radomiu*).
- Detailed rules for the organization of education Study Regulations (*Zasady Studiowania*) in the first-cycle studies in the field of *Mechanical Engineering*.

Apprenticeship in the field of *Mechanics and machine construction* are an obligatory part of education; they are a summary and verification, in an industrial setting, of the knowledge gained in the **field subjects** and elective subjects within **the selected scope**.

The study programme provides for a four-week (160 h), graduate Apprenticeship after the 6th semester of study (4 ECTS credited by the 6th semester). The scope of apprenticeship is detailed in the course syllabus **Apprenticeship**.

Apprenticeship provide students with the opportunity to expand their knowledge of practical issues and get acquainted with potential future employers, their needs, and requirements. The company or institution hosting the students on the apprenticeship, in turn, has the opportunity to get to know potential future employees, capitalize on their diligence and knowledge, and influence the further course of their studies to match their skills to its needs.

The basic form of apprenticeship is individual placement, the course of which is consistent with the curriculum and meets the assumed learning outcomes.

Practical placements are conducted during the summer (intersession) period, i.e., from late June to mid-September.

A detailed description of the organization of apprenticeship is included in the Study Regulations (*Zasady Studiowania*) set by the Dean.

9 Form of graduation

A prerequisite for graduation from the bachelor's degree programme in *Mechanics and machine construction* and obtaining a diploma is obtaining the learning outcomes specified in the study programme, which are assigned 210 ECTS points, a positive evaluation of the diploma thesis, and passing the diploma exam with at least a satisfactory grade.

The thesis is an independent study of a practical issue presenting the student's general knowledge and skills related to the first degree studies in the field of *Mechanics and machine construction* (general academic profile), as well as the ability to analyze and infer independently, and the ability to use modern tools supporting the work of an engineer, including computer techniques.

Diploma theses for full-time and part-time studies are subject to the same requirements. Students are provided with the choice of their topics - along with the indication of the supervisor - no later than two semesters before graduation.

The conditions for graduation and the rules for graduation in the bachelor's degree programme in *Mechanics and machine construction*, are regulated by:

- University Regulations (*Regulamin Studiów Uniwersytetu Technologiczno-Humanistycz*nego w Radomiu).
- Detailed rules for the organization of education Study Regulations (*Zasady Studiowania*) in the first-cycle studies in the field of *Mechanics and Mechanical Engineering*.
- Syllabus of the course "Preparation and submission of the thesis."
- Anti-plagiarism procedure for theses before they are allowed to be defended at Uniwersytet Technologiczno-Humanistyczny im. Kazimierza Pułaskiego w Radomiu (*Kazimierz Pulaski University of Technology and Humanities in Radom*)