

Subject programme

1. Subject name / subject module: **Industry internship**
2. Lecture language: **English**
3. The location of the subject in study plans:
 - Area or areas of the studies: **Computer Control Systems Engineering**
 - Degree of the studies: **2nd degree studies**
 - Field or fields (implementation of effects standard): **Mechatronics**
4. Supervision of subject implementation:
 - The Institute / Another unit: **The Institute of Informatics and Mechatronics**
 - The person responsible for the subject: **Skiba Małgorzata, mgr inż.**
 - People cooperating in the development of the programme of the subject:
5. The number of hours and forms of teaching for individual study system and the evaluation method

Form of classes Mode of study	Teaching activities with the tutor																		Total ECTS	
	SOW	ECTS	Internships	SOW	ECTS	...	SOW	ECTS	...	SOW	ECTS	Internship	SOW	ECTS	...	SOW	ECTS			
Full-time studies			0	0	12							320								12
Part-time studies																				
Credit rigor	...		pass/fail grading																	

6. Student workload – ECTS credits balance
1 ECTS credit corresponds to 25-30 hours of student work needed to achieve the expected learning outcomes including the student's own work

Activity (please specify relevant work for the subject)	Hourly student workload (full-time studies/part-time studies)
Internship	320
Total student workload	320
ECTS credits	12
* Student's workload related to practical forms	320
Student's workload in classes requiring direct participation of academic teachers	320

7. Implementation notes: recommended duration (semesters), recommended admission requirements, relations between the forms of classes:

None

Recommended duration of the subject is taken from the course plan.

8. Specific learning outcomes – knowledge, skills and social competence

Specific learning outcomes for the subject		Form	Teaching method	Methods for testing of (checking, assessing) learning outcomes
Outcome symbol	Outcome description			
Knowledge				
K_W10	Student has knowledge of health and safety and has knowledge of the methods of work organization and task planning.	Internships	Inquiry methods	Assessment of the internship documentation, implementation (completion) of the internship programme
K_W11	Student understands the importance of innovation and the need to protect the creators of new solutions.			
K_W12	Student knows the basic principles of starting and running a business.			
K_W13	Student understands non-technical and legal conditions related to mechatronic products.			
Skills				
K_U09	Student is able to use literature resources and the Internet in order to constantly improve their own qualifications.	Internships	Inquiry methods	Assessment of the internship documentation, implementation (completion) of the internship programme
Social competence				
K_K04	Student is prepared for real projects in the field of renewable energy and environmental activities.	Internships	Inquiry methods	Assessment of the internship documentation, implementation (completion) of the internship programme

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K_K05	Student is able to make decisions relating to the organization of the production process and has the ability to recognize and solve professional issues			
K_K06	Student understands the importance of conduct in a professional manner and has a sense of responsibility for their own work and the role of professional ethics.			

9. Assessment rules / criteria for each form of education and individual grades

0% - 99%	fail (nzał)	100%	pass (zał)
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Activity	Grades	Calculation	To Final
Provision of the necessary documentation in accordance with the internship programme	zał/nzał (passed/failed)	zał = 100% / nzał = 0%	100%
Final result			100%

10. The learning contents with the form of the class activities on which they are carried out

(Internships)

1. To be familiar with the organization of the undertaking, the structure of employment, management and activities carried out. To understand the business management system, in particular: The whole of technical and technological issues, the role of technical progress, the quality system resulting from compliance with EU standards and quality, environmental protection, in accordance with EU specialised agencies directives;

2. Become familiar with the technology of products or with the services that your company can provide in terms of mechatronical solutions. Whenever possible, actively participate in the work of the project, technological and implementation teams.

3. Prevent the general principles of the circulation of technical documentation between individual business units, with particular reference to those involved in mechanical engineering technologies;

4. To learn about the economic and legal conditions for the implementation, development and operation of mechanical systems and the conduct of technology security policies in a given enterprise;

5. Understand enterprise hardware and techniques for diagnosing hardware failures;

6. Be familiar with the safety systems of machinery and electrical equipment.

11. Required teaching aids

None

12. Literature:

a. Basic literature:

Industry Internship Programme (available on ONTE)

a. Supplementary literature:

b. Internet sources:

13. Available educational materials divided into forms of class activities (Author's compilation of didactic materials, e-learning materials, etc.)

14. Teachers implementing particular forms of education

Form of education	Name and surname
1. Internship	Skiba Małgorzata, mgr inż.