**Appendix No.9 to the Regulations of participation in the project and participation in the paid professional internships**

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University stamp

**INTERNSHIP PROGRAMME**

1. **Extract from the educational outcomes in the field of - ECOLOGICAL POWER ENGINEERING, 2nd degree (M.Sc.)**

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| ***PROFESSIONAL KNOWLEDGE (PK)*** |
| Has extended knowledge about mathematical and related sciences applied to solve problems in the field of ecological power engineering, has advanced knowledge about legal and economic protection of ecosystems, running business, water law, professional advisory and intellectual and industrial protection |
| Knows the rules of solving the design tasks of complex technical systems |
| Knows the requirements of automation devices, and describes their functional separation and the rules of operation |
| Knows the structure and functionality of the presented mechatronic systems and their components |
| Knows the range, functions and methods supporting the quality management and their areas of application |
| Has general knowledge about various forms of running business |
| Has knowledge about the types of systems, methods for determining the functional requirements for the ordered software and the methods applied to analyse the IT problem  |
| Knows and characterises the issues of: tides, sea currents and potential energy of water, including groundwater, and aeolian processes because of the possibility to obtain renewable energy |
| Is aware of yield and recovery of fuel in different technologies |
| Knows the rules and phenomena applied in solar, photovoltaic and hybrid systems of acquisition, processing and storage of energy |
| Has in-depth knowledge about the identification and defining the risks to the environment, and is able to analyse the factors influencing on biosystems |
| Has knowledge about the methods of certain reasoning and non-educational reasoning, and knows their place in the learning process; has knowledge about the creation and verification methods |
| ***PROFESSIONAL SKILLS (PS)*** |
| Is able to reason based on the experimental and simulation analysis of the research methods, and synthesises solutions |
| Is able to search for and practically apply the relevant legal acts related to ecological power engineering, RES and organisation and management of a company |
| Analyses the structure and operations of the selected mechatronic structures allied in ecological power engineering |
| Applies CAD tools to design simple technical systems |
| Is able to apply the advanced IT systems in the production of energy from agricultural and non-agricultural waste |
| Evaluates the vulnerability of processes and systems for automation |
| Is able to discuss the environmental effects of the intensification of agricultural production, including those resulting from the so-called energy plants |
| Knows how to analyse the formal correctness of the experimental work, and evaluates their suitability for the agricultural practice |
| Is able to read and interpret the diagrams applied in ecological power engineering, including heating, solar, hydro and photovoltaic turbines |
| Selects and calculates the technical and technological parameters of the heat exchange systems |
| Is able to present a solved task, actively participates in technical discussions, is open to arguments of others, is able to defend its position |
| Knows how to build a model of a simple system |
| Is able to design the quality management systems, applying known methods |
| Has the language skills in the field of ecological power engineering in accordance with the requirements specified for B2+ level in the Common European Framework of Reference for Languages |
| Is able to prepare and both verbally and non-verbally present the results of its work in terms of contents mastered in the field of ecological power engineering  |
| ***SOCIAL SKILLS (SS)*** |
| Is able to think and act creatively as an individual and in a team |
| Is aware of the need to constantly train itself and others |
| Is able to organise group work and/or cooperate in a team when executing a task |
| Defines the purposes and priorities of a working group considering individual’s knowledge and skills  |
| Is aware of the wider responsibility for the dilemmas associated with the application of plant and animal products in the production of energy |
| When designing and operating the systems, it is characterized by a holistic approach to the surrounding reality |
| Is able to function in a social environment, and take different forms of professional activities |

**B. Personal data of the Intern and Employer**

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| --- | --- |
| NAME AND SURNAME OF THE INTERN | ………………………………………………………………………………………………….… |
| NAME OF THE EMPLOYER | ………………………………………………………………………………………………….… |
| INTERNSHIP LOCATION | ………………………………………………………………………………………………….…*(address of the company / institution headquarters / branch)* |
| ASSIGNED INTERSHIP SUPERVISOR | ………………………………………………………………………………………………….… *(Name and surname, position)*………………………………………………………………………………………………….… *(phone number, email)* |

**C. Information about the internship**

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| --- | --- | --- |
| INTERNSHIP PERIOD[[1]](#footnote-1)1 | **from:** | *dd-mm-yyyy* |
| **to:** | *dd-mm-yyyy* |
| WORK TIMETABLE[[2]](#footnote-2)2 | Scheduled working hours: |  |
| Scheduled number of internship hours daily: |  |
| Days of the week, when the internship is done: |  |
| TOTAL NUMBER OF INTERNSHIP HOURS | **240 hours** |
| NAME OF THE PROFESSION OR SPECIALISATION | ………………………………………………………………………………………………….… |
| SCOPE OF ACTIVITIES PERFORMED DURING THE INTERNSHIP | ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… |
| **PROFESSIONAL KNOWLEDGE** REQUIRED DURING THE RELATION*(based on the Extract from the educational outcomes in the field of Ecological power engineering – in part A, PK)* | ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… |
| **PROFESSIONAL SKILLS** REQUIRED DURING THE INTERNSHIP*(based on the Extract from the educational outcomes in the field of Ecological power engineering – in part A, PS)* | ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… |
| **SOCIAL SKILLS** REQUIRED DURING THE INTERNSHIP*(based on the Extract from the educational outcomes in the field of Ecological power engineering – in part A, SS)* | ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… |

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| *……………………………………………………**SIGNATURE OF THE INTERNEE* | *……………………………………………………**SIGNATURE OF THE EMPLOYER* | *……………………………………………………**SIGNATURE OF THE INTERNSHIP ORGANISER (UNIVERSITY)* |

1. 1The internship has to take place between November 1, 2018 and October 31, 2020. [↑](#footnote-ref-1)
2. 2The internship has to match the following timetable: maximum 8 hours daily and 40 hours weekly; minimum 20 hours weekly. [↑](#footnote-ref-2)