**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**

**A. Extract from the educational outcomes in the field of - AGRICULTURAL ENGINEERING,   
first degree (M.Sc.)**

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| ***PROFESSIONAL KNOWLEDGE (PK)*** |
| basic knowledge of physics, biophysics, biology and chemistry to understand and analyse the phenomena and processes occurring in agricultural technology and biological systems |
| knowledge of mathematics, including mathematical analysis, linear algebra and essentials of statistics to solve simple problems in engineering projects |
| basic knowledge of law and economics to run a production or service business |
| knowledge of social, civic and humanistic issues to create civic awareness and attitude |
| knowledge of the biological essentials of agricultural production at various complexity levels, which are useful to implement technological processes in plant and animal production |
| basic knowledge of mineralogy, petrography, soil science, soil physics and the functions of soil in the biosphere in terms of agriculture and environment protection |
| the ability to explain the thermodynamic principles, transformations and cycles in the thermal components of machines and technical devices |
| the ability to explain the principles of using electrical engineering, electronics, automation and steering, including hydraulic and pneumatic steering |
| basic knowledge of materials science, mechanics, strength of materials and machine parts to design and operate technical equipment in agriculture |
| knowledge of design methods to implement engineering tasks, including the use of information technology |
| theoretical, applied and legal knowledge of metrology |
| knowledge of the construction, the principle of operation and the principles of safe use of machinery and equipment used for farming, forest, gardening and municipal works |
| knowledge of the principles of technical, technological and economic use of machinery in plant and animal production |
| knowledge of crop management methods and logistic processes |
| knowledge of the technologies and processes of restoring the lost technical condition of agricultural machines |
| knowledge of the properties, functions and requirements concerning the materials for agricultural production and construction |
| knowledge of the principles and tools of using computer graphics for two-dimensional presentation of spatial objects and understanding the need to standardise machine parts |
| knowledge of the organisation of production processes and services in the technical equipment used in farming, horticulture, municipal services and the automotive industry |
| knowledge of the organisation of production processes and services in the technical equipment used in farming, horticulture, municipal services and the automotive industry |
| knowledge of the methods of assessment of environmental threats and the importance of material and energy recycling to improve the quality of human life |
| knowledge of the technological requirements concerning the technical infrastructure in rural areas |
| B2 level of linguistic competence for agricultural engineering studies |
| ***PROFESSIONAL SKILLS (PS)*** |
| using mathematical, statistical, experimental and computer simulations to describe and analyse the phenomena occurring in agricultural processes |
| analysis of basic natural physical, biophysical and biological phenomena |
| analysis of basic natural physical, biophysical and biological phenomena |
| understanding chemical processes and their importance in agricultural production, the ability to search for and interpret information about the role of soil as an element for the production of consumption biomass and energy biomass |
| economic analysis of engineering activities, assessment of the economic situation of an enterprise |
| analysis of legal regulations and using them in agricultural practice |
| analysis of the kinematics and loads of typical spatial structures to design and make a device, test stand, etc. |
| assessment of the possibility to use automation to solve problems in various areas of agriculture |
| the ability to balance energy and mass in the process of drying agricultural products |
| the ability to create computer models of technical objects to plan engineering works |
| the ability to do simple research and design tasks in the field of agricultural technology, allowing for non-technical factors; the ability to interpret results and draw conclusions |
| the ability to supervise and operate machinery, processes as well as production and operational systems in agriculture, horticulture, energetics and the agri-food industry |
| the ability to determine the necessary resources for the adequate course of technical and technological processes |
| the ability to make measurements of various physical magnitudes in production and service processes |
| the ability to determine the methods of process verification, methods of process evaluation and to present results using information technology methods |
| the ability to determine the quality of work as well as the technical and operational indicators of farming, gardening and forest machinery and equipment in the processes of their operation |
| the ability to indicate the threats that determine the quality of manufactured products |
| the ability to use modern IT methods for computer-aided decision making |
| the ability to organise the operation of farming machinery including maintenance processes |
| the ability to prepare a farming machinery servicing schedule |
| the ability to evaluate the quality of various technical equipment used in agriculture |
| the ability to determine the state of degradation of the natural environment in an urban agglomeration and in rural areas |
| the ability to formulate the complexity of influencing farm animals’ health and living comfort |
| the ability to search the market offer to select adequate consumables and machine parts for a specific technical or technological process |
| the ability to use a foreign language according to the standards of level B2, as specified in the Common European Framework of Reference for Languages |
| ***SOCIAL SKILLS (SS)*** |
| understanding the need of lifelong learning to continuously extend one’s knowledge |
| active attitude to substantive discussion |
| awareness of the consequences of erroneous engineering actions |
| the ability to think independently and rationally, to identify and solve problems |
| taking care of the equipment and awareness of the dangers of misuse of technical equipment, which affects its durability and reliability, the condition of the natural environment as well as users’ life and health |
| active attitude and openness to the reorientation of agriculture towards the production of good quality and healthy food |
| the ability to work in a team and respecting the principles of diversity and individualisation during teamwork |
| responsibility for tasks to be done and the ability to plan work to do the tasks |
| ethical conduct |
| setting responsibility for the whole process and for individual activities |
| setting priorities to select optimal solutions in decision-making processes |
| creativity and enterprise, the ability to identify clients and their requirements |

**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 Agricultural Engineering – in part A, PK)* | ………………………………………………………………………………………………………  ………………………………………………………………………………………………………  ………………………………………………………………………………………………………  ………………………………………………………………………………………………………  ……………………………………………………………………………………………………… | | |
| **PROFESSIONAL SKILLS** REQUIRED DURING THE INTERNSHIP  *(based on the Extract from the educational outcomes in the field of Agriculture – in part A, PS)* | ………………………………………………………………………………………………………  ………………………………………………………………………………………………………  ………………………………………………………………………………………………………  ………………………………………………………………………………………………………  ……………………………………………………………………………………………………… | | |
| **SOCIAL SKILLS** REQUIRED DURING THE INTERNSHIP  *(based on the Extract from the educational outcomes in the field of Agriculture – 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)