**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 - APPLIED COMPUTER SCIENCE, 2nd degree (M.Sc.)**

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| ***PROFESSIONAL KNOWLEDGE (PK)*** |
| *has in-depth knowledge of how to use computing, statistical and experimental methods in studying and analyzing natural phenomena* |
| *has advanced knowledge of economic, legal and social aspects of running a business, with particular focus on agricultural engineering* |
| *demonstrates extensive knowledge of how to design technological processes, taking into account the automation methods used in solving agricultural engineering problems* |
| *has detailed knowledge of the construction and operation of mechatronic appliances used in agricultural engineering* |
| *has in-depth knowledge of how to analyze and design processes and how to use computing solutions to model objects that help solving agricultural engineering problems* |
| *knows methods of assistance in quality management and how they can be employed in agricultural engineering* |
| *has extensive knowledge of how to design, implement and roll out complex computing, online and mobile systems as a support in solving engineering problems* |
| *has extended knowledge of how to process and analyze large data and information resources collected as part of agricultural engineering processes* |
| *has up-to-date knowledge of the technologies for retrieving, processing and sharing spatial data on agricultural production* |
| *knows sophisticated state-of-the-art programming techniques used in computer-aided design systems* |
| *has advanced knowledge of how to identify threats to, and ensure security of, enterprise-grade technical and network infrastructures* |
| *has knowledge of sophisticated techniques for neural processing and analysis of digital images* |
| *has advanced knowledge of how to remotely manage dispersed data and how to design, implement and maintain network services* |
| ***PROFESSIONAL SKILLS (PS)*** |
| *uses sophisticated statistical and experimental methods to analyze natural phenomena* |
| *knows how to use norms and standards, and how to make practical use of economic and legal tools in running a business* |
| *knows how to examine in detail the applicability of automation and electronic systems in optimizing production processes* |
| *analyzes the construction and operation of selected mechatronic solutions* |
| *develops project documentation including models of objects found in the natural environment and in technological systems used in agricultural production* |
| *designs and implements quality management systems to solve agricultural engineering problems* |
| *knows how to design and implement a dispersed computing system which provides assistance in solving engineering problems* |
| *uses state-of-the-art IoT techniques to collect, process or exchange data through an IT network* |
| *knows how to develop a complex web application which supports the decision-making process* |
| *develops IT systems enabling the management and sharing of large datasets and supporting their analysis, processing and exploration* |
| *knows how to develop maps based on geographic spatial data on business processes* |
| *develops management and automation scripts for the process of creating, modifying and analyzing structural designs* |
| *knows how to implement essential hardware and software for a secure management of information flows within an organization, and how to develop the related rules* |
| *uses artificial intelligence methods, including artificial neural networks, in solving high-risk problems affected by uncertainty* |
| *uses state-of-the-art neural methods of image analysis to carry out a non-invasive examination of selected parameters of an object* |
| *knows how to develop a network service to support solving engineering and computing problems* |
| *has advanced skills in using foreign language professional terminology in the field of agricultural engineering and IT* |
| ***SOCIAL SKILLS (SS)*** |
| *knows how to work as a team member in different roles, including to manage a team and assume responsibility for the outcomes of teamwork* |
| *understands the need for continuous learning and extending his/her practical skills related to modern engineering and IT solutions* |
| *understands how important it is to be safe at work, to ensure adequate workplace conditions, to reduce the risk, to handle the technical equipment properly, and to preserve intellectual property rights* |
| *is aware of non-technical consequences of his/her actions, including the impacts of mechanization on the agricultural and natural environment* |
| *demonstrates creativity in using state-of-the-art IT solutions to solve engineering problems* |
| *is able to advise on how to choose optimum technologies and/or IT solutions for a project* |
| *is able to consult, negotiate and discuss in a foreign language with engineering professionals, using the right terminology for the context* |

**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**

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