

Framework program of the internship

at Faculty of Electronics, Telecommunications and Informatics,
Gdańsk University of Technology
for students of Computer Science and Data Engineering
(approved by the Faculty Council on January 22, 2019.)

The framework program of internship is consistent with the assumed learning outcomes approved by the Senate of the Gdańsk University of Technology. The company internship supervisor draws up an Individual internship plan for a given trainee.

- I. The internship plan must contain at least three selected tasks from the block of technical and engineering skills below:
 1. Installation, configuration and administration of small computer networks, including wireless.
 2. Implementation of information security policy in a company or institution, installation of anti-virus protection, configuration of firewalls.
 3. Installation, configuration and administration of software, in particular operating systems and application servers.
 4. Design, implementation and modification of software in various technologies and for various applications.
 5. Software testing, also with the use of automated testing tools.
 6. The use of open source software components, taking into account the legal dependencies between them and the resulting product.
 7. Designing and implementing databases and testing their performance.
 8. Using advanced methods and technologies for data processing, storage, transformation and analysis (Big Data, Business Intelligence, data warehouses)
 9. Design and prototyping of advanced user interfaces.
 10. Using advanced IT tools to process sound, image and video files.
 11. Configuration of computer external devices, extension and modification of its structure of modules and internal devices.
 12. Preparation and testing of software for simple microcontrollers and embedded systems.
 13. Preparation and analysis of technical documentation of IT projects, the use of models and management tools for e-business.
- II. II. Regardless of the above. technical and engineering skills, the student must acquire certain social competences during the internship (it is enough to meet at least one competence for each of the points listed below):

1. Readiness to cultivate and disseminate models of proper conduct in the work environment and outside it, independent decision-making, a critical assessment of one's own actions, the actions of the teams he manages and the organizations in which he participates, taking responsibility for the effects of these actions, responsible performance of professional roles including:
 - observe the rules of professional ethics and require it from others,
 - care for the achievements and traditions of the profession.
2. Willingness to critically evaluate one's knowledge and recognize the importance of knowledge in solving cognitive and practical problems.
3. Willingness to fulfill social obligations, co-organize activities for the social environment, initiate activities for the public interest, think and act in an entrepreneurial manner.
4. Ability to work in a team, plan and implement individual and team tasks, effective communication and adhere to the values and principles of cooperation in the team.