**Internship Framework Programme for Second-Cycle Students
of Electronics and Telecommunications - Information and Communication Technologies [1]**

The goal of internships for second-cycle students is to expand the knowledge obtained during the studies, as well as to develop the ability to put this knowledge into practice when solving practical problems with research elements, with particular emphasis on working towards a diploma. Students should develop their interests in their chosen fields of master's degree theses. Students should learn as much as possible about various kinds of projects and participate in them actively as part of a team. They should also be responsible for the work performed and decisions made. It is recommended they perform tasks independently, with the possibility of heading a small team.

The Enterprise (company/institution) accepting a student for an internship appoints an in-house supervisor to whom the student-intern will report to.

The primary tasks of the student-intern should include:

1. Completing OHS training according to the regulations applying to the employees of the department at which the internship takes place, in order to achieve effect K2_U19, i.e. "Ability to apply occupational health and safety rules".

2. Becoming acquainted with the company's business profile and rules of company management, organizational structures, division of competences, team work management procedures and document and information flow, in order to achieve effect K2_W15, i.e. "Basic knowledge on management".

3. Becoming acquainted with the company's IT infrastructure, strategies for network service continuity, and technical aspects of data security; effect – as above.

4. Active participation in solving practical problems, including the following activities (depending on the workplace characteristics):

   a) independently performing a project task or a task that is part of a team project adjusted to the intern's knowledge on electronic, optical or optical electronic circuits, telecommunication networks, electromagnetic fields, etc., and reporting the performance of this task – in order to expand the knowledge on circuit design obtained during the studies (effects: K2_W04, K2_W06, K2_W08. K2_W14), develop the skills of its practical implementation (effects: K2_U03, K2_U06, K2_U14, K2_U17) and take responsibility for proposed solutions (effects: K2_K05, K2_K06, K2_K08);

   b) independently performing a project or simulation task (or part of a team task) involving programmable digital circuits in the area of multimedia systems and services and IT networks – in order to deepen the knowledge on the structure and architecture of programmable digital circuits and their practical applications for analysing multimedia systems and mechanisms employed in IT networks (effects: K2_W01, K2_W02, K2_W11, K2_W13), develop the skills in programmable digital circuit applications (effects: K2_U04, K2_U09, K2_U15) and establish conscious responsibility for tasks performed (effects: K2_K05, K2_K06);

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[1] On the basis of the internship framework program, a program adapted to the specificity of the enterprise in which the internship is carried out should be developed. The changes mainly concern p. 4.

c) independently performing tasks in the area of security systems, particularly network security and secure data transmission – e.g., configuration of network equipment and protocols – in order to consolidate broadly-defined knowledge of network and data security (effects: K2_W05, K2_W12), improve skills of network device configuration and applying various security measures (effects: K2_U14, K2_U16, K2_U18), and establish conscious responsibility for tasks performed (effects: K2_K05, K2_K06);

d) independently performing tasks involving satellite communication systems – in order to deepen the knowledge of satellite communications (effect: K2_W10), improve skills of the evaluation of parameters and configuration of satellite systems (effect: K2_U10), and establish conscious responsibility for tasks performed (effects: K2_K05, K2_K06);

e) performing research tasks in the area of optimization, signal processing and simulations (effects: K2_W03, K2_W07, K2_W09), improving practical skills in the application of optimization, numerical methods and simulations (effects: K2_U05, K2_U09, K2_U12), and expanding the view on problems faced by electronics and telecommunications (effect: K2_K07).

5. Preparation of the Report on internship completion (download the form from the faculty website).

Detailed information on the organization and crediting of internships at the Faculty of Electronics and Telecommunications as well as downloadable documents can be found on the faculty website in the section Student → Praktyki i Staże.

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