



Accelerating ICT students' start-up development competence via interdisciplinary modular courses in the HEI curricula

Comments on the Task 1.1 Form 1 (Key ICT specialties skills)

Task 1.1 Form 1 (Key ICT specialties skills) includes the list of soft skills and hard skills necessary for students representing ICT-related study programmes.

The list of soft skills was elaborated by Ekonomikas un Kultūras augstskola (EKA), based on:

1. List of generic and entrepreneurial soft skills (ESF Transnational Cooperation project <https://ec.europa.eu/esf/transnationality/TCA-2615>)
2. 8 key competences of European Union (<http://mobilitycompetences.com/wp-content/uploads/2016/10/The-8-key-competences-of-European-Union.pdf>)
3. Entrepreneurial soft skills for the future: a scoping study (https://www.youthbusiness.org/file_uploads/YBI-SoftSkillsForTheFuture.pdf)
4. Entrepreneurship Skill-Sets (https://www.oecd.org/cfe/leed/Cooney_entrepreneurship_skills_HGF.pdf)
5. OECD Learning compass 2030 (http://www.oecd.org/education/2030-project/teaching-and-learning/learning/skills/Skills_for_2030_concept_note.pdf)
6. OECD, Strengthening SMEs and entrepreneurship for productivity and inclusive growth, Key Issue Paper, 2018, Mexico City, SME Ministerial Conference. (<https://www.oecd.org/cfe/smes/ministerial/documents/2018-SME-Ministerial-Conference-Key-Issues.pdf>)
7. Latvian Qualifications Framework 2017, level 6 (bachelor)

The list of hard skills was elaborated by Kazan National Research Technical University named after A. N. Tupolev (KNRTU – KAI) and EKA, based on:

1. Results of the 2020 interview of Russian entrepreneurs representing ICT sector on key competences graduates need
2. Noteikumi par Profesiju klasifikatoru, profesijai atbilstošiem pamatuzdevumiem un kvalifikācijas pamatprasībām [Regulations on the Classification of Professions, Basic Tasks Corresponding to the Profession and Basic Qualification Requirements] <https://likumi.lv/ta/id/291004-noteikumi-par-profesiju-klasifikatoru-profesijai-atbilstosiem-pamatuzdevumiem-un-kvalifikācijas-pamatprasibam> - for professions:
 - Programmer
 - System analyst
 - Creator of websites and multi-media products
 - Application builder

- Database analyst
- Database programmer
- Database administrator
- Network engineer
- Network administrator

3. Profession standard for programming engineer
<https://visc.gov.lv/profizglitiba/dokumenti/standarti/ps0227.pdf>

The task for the project participants, responsible for relevant ICT-related study programmes in Russian and Kazakhstan Universities is to critically analyze the skills listed in the Form 1 and to mark those skills, which students can acquire studying the courses of the programme.

Based on this feedback, the list of required (but not provided!) skills will be formed in order to better prepare the content of “Train the trainer” programme.