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The concept of training IT professionals in cross-cutting digital technologies

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The formation of a new generation of digital technologies, which were called «cross-cutting» due to the scale and depth of their influence, determined a large-scale transformation of business and social models. These changes have a strong impact on the content of professional activity: new skills are required from employees, and therefore new competencies. The rapid digitalization of the economy requires qualified specialists.
Currently there is a profoundly serious shortage of IT specialists necessary for the development of national projects in Russia. The timely updating of higher education programs that meet global trends, considering the most popular technologies is of particular importance. These technologies and their sub-technologies are described in the roadmaps created within the framework of the national program "Digital Economy of the Russian Federation": neurotechnology and artificial intelligence, virtual and augmented reality systems, distributed ledger technologies, quantum technologies, new production technologies, robotics and sensor components, wireless communication.
The report will present the system of training of highly qualified IT specialists in cross-cutting digital technologies at the Institute of System Analysis and Management (ISAM) of the State Dubna University. The features of the formation and development of the student's relevant competencies and skills considering the areas of study at ISAM are discussed.

Summary

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