

## Documents

Morze, N.<sup>a</sup>, Glazunova, O.<sup>b</sup>

**Development of professional competencies of information technology university teachers: Motivation and content**  
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<sup>a</sup> Boris Grinchenko Kyiv University, Kyiv, Ukraine

<sup>b</sup> National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine

**Abstract**

The article sets out to analyze the professional competencies on the standard European e-Competence Framework. The survey of information technology teachers of Ukrainian universities concerning the necessity of forming and development of European e-Competence Framework competencies allowed defining the priority areas for training and forming the content component of a model of professional competencies development of information technology university teachers. The proposed model distinguishes stages, factors, and resources for training teachers. Teachers' attitude to motivation, time and money allocation for professional development was researched. The content component of the development of professional competences of teachers of information technologies is offered. Recommendations for training and advanced training of teachers of information technologies, assessment of the level of development of professional competence, was proposed. © 2019 CEUR-WS. All rights reserved.

**Author Keywords**

Development of Professional Competencies; European e-Competence Framework; Professional Competencies of Information Technology University Teachers

**Index Keywords**

Industrial research, Knowledge management, Motivation, Professional aspects; European e-Competence Framework, Model of professionals, Professional competence, Professional competencies, Professional development, University teachers; Personnel training

**References**

- *Microsoft Education Transformation Framework for Higher Education*,
- Newman, D.  
(2017) *Top 6 Digital Transformation Trends In Education*,
- Tom, D.  
(2016) *The BYOD Evolution: Three Common Approaches*,
- Morze Nataliia, V., Eugenia, S.-T., Olena, G.  
**Design of a university learning environment for smart education**  
(2017) *Smart Technology Applications in Business Environments*,
- Stott, L.  
(2018) *Cloud Computing A Blended Learning Approach to Education*,
- Morze, N.V., Glazunova, O.G.  
**Design of electronic learning courses for IT students considering the dominant learning style**  
(2014) *Communications in Computer and Information Science Communications in Computer and Information Science Book Series*, 469.
- Carnevale, A., Smith, N., Melton, M.  
(2011) *STEM*,  
Washington, DC: Georgetown University Center on Education and the Workforce
- Rothwell, J.  
(2013) *The Hidden STEM Economy*,

Washington, DC: Brookings

- (2014) *How to Become A Computer Science Teacher*,
- Yu, J.H., Luo, Y., Sun, Y., Johannes Strobel, A.  
**Conceptual k-6 teacher competency model for teaching engineering**  
(2012) *International Conference on Teaching and Learning in Higher Education (ICTLHE 2012) in Conjunction with RCEE & RHED Procedia - Social and Behavioral Sciences*, 56, pp. 243-252.
- (2017) *European Framework for the Digital Competence of Educators*,
- Kuzminska, O., Mazorchuk, M., Morze, N., Pavlenko, V., Prokhorov, A.  
**Digital competency of the students and teachers in ukraine: Measurement, analysis, development prospects**  
(2018) *ICT in Education, Research and Industrial Applications*, 2104, pp. 366-379.
- *ISTE for Computer Science Educators*,
- (2015) *Understanding Information Technology. A Guide to IT Career Opportunities*,
- John, B.  
(2017) *What It Skills Do You Need for A Successful Career in the Industry?*,
- *European-E-Competence-Framework*,
- *Teaching Certification*,
- Owen John, B.  
*Foundations of Computer Science for Teachers*,  
The University of Texas
- *Teacher Training Programme - Teaching Subject Computer Science*,  
TU Graz University of Technology

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