Ruse Research University:

Scientific group:	3.1.4 DIGITAL, LAYERED, ENERGY-ASSISTED INNOVATIVE TECHNOLOGIES AND MODELS

Academic position and scientific degree:	**Prof. DsC**
Name and surname:	Valentina Voinohovska
Researcher‘s category:	R3
Photo:	
Brief biographical information	• Computer Systems and Technologies Engineer. In 1999-2003, she graduated "Bachelor" majoring in "Computer Systems and Technologies" at the "Angel Kanchev" University of Ruse. • In 2003-2005 graduated master degree majoring in "Computer Systems and Networks" at "Angel Kanchev" University of Ruse. • In 2012, defended the Educational-scientific degree "Doctor" on 1.3. Pedagogy of training in..., scientific specialty: "Methodology of training in informatics and information technologies" with a dissertation on the topic: "Model for managing the quality of training in the conditions of a constructivist and high-tech environment" at Ruse University "Angel Kanchev". • 2021 awarded Educational-scientific degree "Doctor of Sciences" under 1.3. Pedagogy of training in..., Scientific specialty: "Methodology of training in informatics and information technologies" with a dissertation on the topic: "Formation of computational thinking skills and promotion of teachers' creativity through a digital educational environment for block programming" at the University of Ruse "Angel Kanchev" • From 2005 to 2009, assistant in the "Informatics and Information Technologies" department. • From 2009 to 2011, senior assistant in the same department. • From 2011 to 2014, senior assistant. • From 2014 to 2021 academic position associate professor. • From 2021 to the present, academic position professor.
Main scientific achievements:	• Development of a model for quality management in education based on constructivist principles and high-tech educational environments, successfully tested and implemented in pedagogical practice.

Този документ е създаден по проект "Русенски изследователски университет", финансиран от Европейския съюз - NextGenerationEU, чрез Националния план за възстановяване и устойчивост на Република България, по договор BG-RRP-2.013-0001-C01, за изпълнение на инвестиции по Механизма за възстановяване и устойчивост за „Създаване на мрежа от изследователски висши училища в България - 2”, по стълб „Иновативна България“, Компонент 2 „Научни изследвания и иновации“, Инвестиция 1 (C2.I1): „Програма за ускоряване на икономическото възстановяване и трансформация чрез научни изследвания и иновации“.

	• Design and validation of a digital educational environment for block-based programming aimed at fostering computational thinking and stimulating creativity among teachers and students. • Research on methodologies for integrating computational thinking into curricula, contributing to innovations in teaching methods. • Development of a methodology for applying STEM approaches in extracurricular robotics activities aimed at enhancing students' digital competencies. • Introduction of new technologies for teaching computer science and information technology that promote interdisciplinary integration and the use of artificial intelligence in educational contexts. • Exploration and application of digital tools and teaching methodologies that optimize the learning process through active engagement and personalized education. • Development of teacher training programs focused on improving digital pedagogy and integrating modern technologies into the educational process. • Publication of a significant number of scientific and applied research works in the field of computer science and IT teaching methodology, emphasizing innovative approaches and high-quality education in modern digital environments. • Supervision and mentorship of doctoral students, as well as participation in international and national projects aimed at advancing educational technologies and methodologies.
Key scientific interests:	• Digital Educational Technologies. • Computational Thinking and Block-Based Programming. • STEM Education and Robotics. • Methodology of Teaching Informatics and Information Technologies. • Interdisciplinary Integration in Education. • Creativity and Innovations in Education. • Quality Management of Educational Processes. • Professional Development of Teachers. • Artificial Intelligence in Education. • Training for Key Competencies.
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