



# UNIVERSITY OF BIAŁYSTOK

## FACULTY OF EDUCATION

### ACADEMIC YEAR 2021/2022

Course: <b>Basics of coding in early childhood education</b>	<b>ECTS Points: 2</b>
<b>Course Code:</b> 0800-ERA-7GWO	
<b>Language:</b> English	
<b>Course description:</b> educational content – elective, optional course	
<b>Lecturer:</b> Adam Naruszewicz, MA.	
<b>Semester:</b> summer	<b>Number of hours:</b> 15
	Lecture: 0
	<b>Classes:</b> 15
<b>Courses to be completed before enrolment to the course:</b> Expert knowledge of computer skills is required.	
<b>Substantive content:</b> basics of computer programming, computer games in education, developing children's coding skills.	
<b>Classes</b>	<b>Number of hours</b>
• What is a coding in early education	2
• Base of computer programming	2
• Elements of programming in early childhood education	3
• Computer games and applications for learning coding	4
• Robots in early childhood education	3
• Summary	1
<b>Aim of the course:</b> Developing students' knowledge and skills in terms of conducting classes about coding in early childhood education. Showing methods and tools for developing coding skills in children.	
<b>Teaching methods:</b> work in teams (groups), work in computer room (lab), presentations and instructional videos.	
<b>Literature:</b> <ul style="list-style-type: none"><li>Alghamdi M, Al-Jumeily D, Hussain A, "Supporting Young Students to Learn Computer Programming in an Early Schooling", In Computer Vision and Image Analysis Applications (ICCVIA), International Conference, pp. 1-5. IEEE, Rome, Italy, 23rd-24th March 2015.</li><li>Alghamdi M, Symons A, Al-Jumeily D, Hussain A, "Supporting the Learning of Computer Programming in Early Years Schooling". The International Journal of Software Engineering, vol.3, pp.1-11, 30th June 2015.</li></ul>	
<b>Forms and conditions of credit:</b> active participation in classes.	