

Characteristics of the submitted research/ artistic/other output

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The name of the university	Comenius University Bratislava
The seat of the university	Šafárikovo námestie 6, 818 06 Bratislava
Surname awarded to the assessed person	KOSTRUB
Name awarded to the assessed person	Dušan
Degrees awarded to the assessed person	prof., PaedDr., PhD.
Hyperlink to the entry of the person in the Register of university staff	https://www.portalvs.sk/regzam/detail/4949
Area of assessment	Teaching Pedagogy in Combination (1st degree and 2nd degree) and Pre-school and Elementary School Education (3rd degree)
Category of the research/ artistic/other output	scientific output
Year of publication of the research/artistic/other output	2024
ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID: 2000083
Hyperlink to the record in another publicly accessible register, catalogue of research/ artistic/other outputs	https://petra.uniba.sk/?fn=detailBiblioForm&sid=9EFC318DF93415C0050727CEAC56
Annotation of the output in English	New Paradigm of Pedagogy: Proleptic Approach in Education emerges as a seminal work destined to leave an indelible mark on the discourse of pedagogical innovation. This meticulously crafted volume invites scholars, educators, and researchers to delve deep into the profound implications of the proleptic approach, offering a scholarly journey into the heart of pedagogical transformation. The book's core proposition revolves around the proleptic approach a concept challenging traditional pedagogical paradigms. The authors rigorously examine how educators' autonomy, support, and development play a pivotal role in shaping autonomy-supportive and autonomy-developing teaching environments. Grounded in rigorous research and scholarly inquiry, this text scrutinizes the multifaceted elements of proleptic pedagogy and offers empirical insights into its application across diverse educational settings. This academic endeavor is characterized by its comprehensive review of existing literature, amalgamating insights from a spectrum of educational domains. Drawing on case studies, empirical evidence, and theoretical frameworks, the authors elucidate the transformative potential of the proleptic approach. They provide readers with a nuanced understanding of how educators can embody autonomy to foster a culture of self-directed learning among students. The book is an intellectual tour de force, synthesizing the voices of prominent scholars and practitioners who have championed the proleptic paradigm. Readers will embark on a scholarly voyage that challenges existing educational paradigms and offers a robust framework for redefining pedagogy in the 21st century. New Paradigm of Pedagogy is a testament to the power of research, inquiry, and intellectual exploration in education. It promises to inspire further scholarly discourse, inviting educators and researchers to critically engage with the proleptic approach and its implications for the future of pedagogy. This book is a vital resource for those at the forefront of educational research and pedagogical innovation, offering a rigorous and academic examination of a transformative pedagogical paradigm. It represents a call to scholars and educators alike to join the conversation, challenge convention, and explore the uncharted terrain of proleptic pedagogy, where autonomy and innovation converge to shape the educational landscape of tomorrow.
Characteristics of the output's impact on socio-economic practice	The scientific monograph, in addition to its topicality of content, allows to develop conceptual reflections on the implementation of teaching through the knowledge of methodological principles in didactics. It thus enriches the professional and scientific character of the educational process, improves the quality of the study of the field of Teaching and Educational Sciences. At the same time, it presents didactic possibilities of realization of proleptic teaching and promotion of autonomy of subjects in the process of teaching. The scientific monograph forms a contribution to the contemporary pedagogical thinking in the world.
Characteristics of the output and related activities' impact on the educational process	The scientific monograph has a conceptual link with the teacher's individual conception of teaching. The monograph can be used both as a conceptual material and as a textbook in the field of study Teaching and Educational Sciences. It broadens the horizon of knowledge of both teacher and student.
Area of assessment	Teaching Pedagogy in Combination (1st degree and 2nd degree) and Pre-school and Elementary School Education (3rd degree)
Category of the research/ artistic/other output	scientific output
Year of publication of the research/artistic/other output	2018

ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA) Hyperlink to the record in CRPA or CRAA	ID: 56715 https://petra.uniba.sk/?fn=detailBiblioForm&sid=CD2A35D2D6B32CD5428F03D4
Annotation of the output in English	The aim of this chapter is to present a study focused on exploring the process of teaching mathematics with mobile technologies in classrooms in the lower secondary level (pupils aged nine to 14 years old) in Slovakia. This scientific study was based on the realization of inquiry-based learning in concrete topics from school mathematics. During the experimental teaching in the classroom, we used mobile technologies for the preparation of an educational video, which helps to explain basic concepts. The pupils worked in groups, while mobile technologies provided immediate feedback for the teacher. We used a combined qualitative and quantitative educational research approach with questionnaires for teachers, parents and pupils. We would like to present the advantages of the constructionist design of the learning and teaching process with mobile technologies.
List of maximum 5 most significant citations corresponding to the output	[o1] (Conference Proceedings Citation Index - Science:WOS:001238690100027; Conference Proceedings Citation Index - Social Science & Humanities:WOS:001238690100027; Web of Science Core Collection:WOS:001238690100027) 2014089: Using e-test in online mathematics education during a pandemic for Ferenc Rakoczi II Transcarpathian Hungarian College of Higher Education students / Papp, Gabriella (Autor) (100%) ; DisCo 2021: Active Learning in Digital Era, 16 [06.09.2021-07.09.2021, Praha, Česko]. – WOS CC ; CPCI-S ; CPCI-SSH In: DisCo 2021: Active Learning in Digital Era [elektronický dokument] : 16th conference reader / Beseda, Jan [Zostavovateľ, editor] ; Rohlíková, Lucie [Zostavovateľ, editor] ; Braimoh, Dele [Recenzent] ; Martí, Camacho [Recenzent]. – 1. vyd. – Praha (Česko) : Centrum pro studium vysokého školství, 2021. – ISBN 978-80-86302-88-1, s. 275-283 [USB klúč] [online] [o1] (Web of Science Core Collection:WOS:000530212401063) 156573: Opinions and attitudes of pre-primary education teachers and pre-service teachers on using augmented reality / Líšková, Dáša (Autor) (5%) ; Kožík Lehotayová, Blanka (Autor) (80%) ; Kostolányová, Kateřina (Autor) (10%) ; Gašparová, Eva (Autor) (5%) ; ICERI 2019, 12 [11.11.2019-13.11.2019, Seville, Španielsko]. – WOS CC In: ICERI2019 Proceedings [elektronický dokument] : 12th International conference of education, research and innovation / Gómez Chova, Luis [Zostavovateľ, editor] ; López Martínez, Agustín [Zostavovateľ, editor] ; Candel Torres, Ignacio [Zostavovateľ, editor]. – [recenzované]. – 1. vyd. – Valencia (Španielsko) : IATED, 2019. – ISBN 978-84-09-14755-7. – ISSN 2340-1095, s. 11274-11282 [USB klúč] [o1] (Web of Science Core Collection:WOS:000530212401062) 156849: Use of interactive whiteboard in pre-primary education for development of media literacy / Gašparová, Eva (Autor) (10%) ; Severini, Eva (Autor) (80%) ; Kostolányová, Kateřina (Autor) (10%) ; ICERI 2019, 12 [11.11.2019-13.11.2019, Seville, Španielsko]. – WOS CC In: ICERI2019 Proceedings [elektronický dokument] : 12th International conference of education, research and innovation / Gómez Chova, Luis [Zostavovateľ, editor] ; López Martínez, Agustín [Zostavovateľ, editor] ; Candel Torres, Ignacio [Zostavovateľ, editor]. – [recenzované]. – 1. vyd. – Valencia (Španielsko) : IATED, 2019. – ISBN 978-84-09-14755-7. – ISSN 2340-1095, s. 11268-11273 [USB klúč]
Characteristics of the output's impact on socio-economic practice	The purpose of a scientific study is to acquaint the reader with the scientific knowledge derived from the implementation of the research. The research focused on the use of mobile technology in teaching. The publication is primarily useful for education in the field of pedagogy of digital technologies for the learning needs of the current generation, but it can also complement the already acquired knowledge with the very concept preferred by its authors.
Characteristics of the output and related activities' impact on the educational process	The publication with the scientific study can be used in teaching as an inspiring teaching material. In teacher education, the publication enhances the quality of education by providing a summary of the most important educational challenges for the use of digital technologies in education. At the same time, it raises questions about the basic didactical principles of the use of digital technologies. The authors have added to the literature on this topic.
Area of assessment	Teaching Pedagogy in Combination (1st degree and 2nd degree) and Pre-school and Elementary School Education (3rd degree)
Category of the research/ artistic/other output	scientific output
Year of publication of the research/artistic/other output	2019
ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID: 135991

Hyperlink to the record in CRPA or CRAA	https://app.crepc.sk/?fn=detailBiblioForm&sid=01A6BB7AB96764ED5B4D58DFB9
Annotation of the output in English	The paper presents the results of a long-term qualitative examination of early childhood educating and childcare (ECEC). It is ten years of targeted research, with the KEGA grant scheme no. 070UK-4/2016 which enables to reveal different levels of educational practice, and the fact that educational practice needs to be supported by pedagogical science. The research sample consisted of more than 110 subjects - parents, educators (caregivers) and children. Research tools applied, were focus group, interview and observation, via which massive research material was analyzed. The most important finding of research is the need for scientific support in this area, because the caregiver has no support in the current literature. Love, boundaries, consistency, and time prove to be important critical points in the process of bringing up (educating) a child in an early childhood education and childcare facility, providing care up to 3 years of the child's age, and educating in the family.
List of maximum 5 most significant citations corresponding to the output	[o2] (Web of Science Core Collection:WOS:000586878100004; KIS:UMB B.Bystrica_UmbUnCat/0290131; Emerging Sources Citation Index:000586878100004; SCOPUS:2-s2.0-85095589051) 217755: Studying spirituality of muslim spouses fighting infertility : from methodological problems to analysis of everyday practice / Zaviš, Monika [Autor, 90%] ; Procházka, Pavel [Autor, 10%]. – ESCI ; WOS CC ; SCO In: Spirituality Studies [elektronický dokument] . – Košice (Slovensko) : Society for Spirituality Studies (SSS). – ISSN (online) 1339-9578. – Roč. 6, č. 2 (2020), s. 28-39 [online]
Characteristics of the output's impact on socio-economic practice	The study presents the results of research aimed at examining the early childhood educating and childcare. The most important finding of the research is the need for scientific support in this area, because the caregiver has no support in the current literature. Love, boundaries, consistency, and time prove to be important critical points in the process of bringing up (educating) a child in an early childhood education and childcare facility, providing care up to 3 years of the child's age, and educating in the family.
Characteristics of the output and related activities' impact on the educational process	The presented study can be used in education as teaching material. The purpose of the study is to provide scientific reflection to find out the opinions of the researched subjects in early childhood. At the same time, it points to the important knowledge of research findings that every child is unique in nature, which is why access to early childhood education should be unique. There is no single comprehensive "guide" to educating a child at this age. What is clear, however, is the need to provide sufficient incentives in various areas of early childhood development.
Area of assessment	Teaching Pedagogy in Combination (1st degree and 2nd degree) and Pre-school and Elementary School Education (3rd degree)
Category of the research/ artistic/other output	scientific output
Year of publication of the research/artistic/other output	2019
ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID: 157248
Hyperlink to the record in CRPA or CRAA	https://petra.uniba.sk/?fn=detailBiblioForm&sid=24C5901A55BE88273B4FA7C7F2
Annotation of the output in English	The methodological framework deals with the methodological inspiration of the specific project augmented reality in the teaching and learning process. It is a reflection of the thinking, conduct and research effort of investigation the views (social representations in private interpretations) of subjects of the teaching and learning process in which the concept of augmented reality is applied. Augmented reality alters the conditions of the learning process, and it is desirable for teachers to know how the learning conditions change and to understand how these changed conditions affect the learning and teaching subjects. The methodological framework emphasizes the need to investigate these changed conditions in order to re-evaluate the didactic framework under the influence of their action in the context of didactical relations and norms.

List of maximum 5 most significant citations corresponding to the output	[o1] (SCOPUS:2-s2.0-85161409716) 1078496: Enhancing accessibility with Informed VR and AR authoring for hybrid geometry learning / Ferko, Andrej (Autor) (33.334%) ; Berger Haladová, Zuzana (Autor) (33.333%) ; Bátorová, Martina (Autor) (33.333%) ; Software Development and Technologies for Enhancing Accessibility and Fighting Info-exclusion 2022, 10 [31.08.2022-02.09.2022, Lisabon, Portugalsko]. – [recenzované]. – DOI 10.1145/3563137.3563166. – SCO In: Proceedings of the 10th International Conference on Software Development and Technologies for Enhancing Accessibility and Fighting Info-exclusion [elektronický dokument] / [bez zostavovateľa] [Zostavovateľ, editor]. – 1. vyd. – New York (USA) : Association for Computing Machinery, 2023. – (ACM International Conference Proceeding Series). – ISBN (elektronické) 978-1-4503-9807-7, s. 67-72 [online] [o1] (Web of Science Core Collection:WOS:000530212401063) 156573: Opinions and attitudes of pre-primary education teachers and pre-service teachers on using augmented reality / Líšková, Dáša (Autor) (5%) ; Kožík Lehotayová, Blanka (Autor) (80%) ; Kostolányová, Kateřina (Autor) (10%) ; Gašparová, Eva (Autor) (5%) ; ICERI 2019, 12 [11.11.2019-13.11.2019, Seville, Španielsko]. – WOS CC In: ICERI2019 Proceedings [elektronický dokument] : 12th International conference of education, research and innovation / Gómez Chova, Luis [Zostavovateľ, editor] ; López Martínez, Agustín [Zostavovateľ, editor] ; Candel Torres, Ignacio [Zostavovateľ, editor]. – [recenzované]. – 1. vyd. – Valencia (Španielsko) : IATED, 2019. – ISBN 978-84-09-14755-7. – ISSN 2340-1095, s. 11274-11282 [USB kľúč] [o1] (Web of Science Core Collection:WOS:000570679500037; Book Citation Index Social - Sciences & Humanities:000570679500037) 167841: Towards augmented reality educational authoring / Berger Haladová, Zuzana (Autor) (50%) ; Ferko, Andrej (Autor) (50%) ; Theoretical and Practical Aspects of Distance Learning 2019, 11 [14.10.2019-15.10.2019, Katowice, Poľsko]. – BKCI-SSH ; WOS CC In: E-learning and STEM Education [elektronický dokument] [textový dokument (print)] / Smyrnova-Trybulska, Eugenia [Zostavovateľ, editor] ; Kalamarz, Ryszard [Recenzent]. – 1. vyd. – Katowice - Cieszyn (Poľsko) : Uniwersytet Śląski w Katowicach, 2019. – (E-learning, ISSN 2451-3652, ISSN 2451-3644 ; 11). – ISBN 978-83-66055-11-7, s. 587-608 [tlačená forma] [online] [o1] (Web of Science Core Collection:WOS:000530212400117) 162868: Enhancing students' mathematics learning skills with GeoGebra apps / Koreňová, Lilla (Autor) (45%) ; Krpec, Radek (Autor) (5%) ; Gunčaga, Ján (Autor) (45%) ; Lavicza, Zsolt (Autor) (5%) ; ICERI 2019, 12 [11.11.2019-13.11.2019, Seville, Španielsko]. – WOS CC In: ICERI2019 Proceedings [elektronický dokument] : 12th International conference of education, research and innovation / Gómez Chova, Luis [Zostavovateľ, editor] ; López Martínez, Agustín [Zostavovateľ, editor] ; Candel Torres, Ignacio [Zostavovateľ, editor]. – [recenzované]. – 1. vyd. – Valencia (Španielsko) : IATED, 2019. – ISBN 978-84-09-14755-7. – ISSN 2340-1095, s. 10762-10769 [USB kľúč] [o1] (Web of Science Core Collection:WOS:000530212401062) 156849: Use of interactive whiteboard in pre-primary education for development of media literacy / Gašparová, Eva (Autor) (10%) ; Severini, Eva (Autor) (80%) ; Kostolányová, Kateřina (Autor) (10%) ; ICERI 2019, 12 [11.11.2019-13.11.2019, Seville, Španielsko]. – WOS CC In: ICERI2019 Proceedings [elektronický dokument] : 12th International conference of education, research and innovation / Gómez Chova, Luis [Zostavovateľ, editor] ; López Martínez, Agustín [Zostavovateľ, editor] ; Candel Torres, Ignacio [Zostavovateľ, editor]. – [recenzované]. – 1. vyd. – Valencia (Španielsko) : IATED, 2019. – ISBN 978-84-09-14755-7. – ISSN 2340-1095, s. 11268-11273 [USB kľúč]
Characteristics of the output's impact on socio-economic practice	Augmented reality applications bring entirely new opportunities, but they also place new demands on both teachers and students. Augmented reality in teaching presents different possibilities for teachers and pupils to grasp. If the teacher chooses appropriate applications and follows the didactic principles of their use, augmented reality applications have a high potential for learning processes. This must be, however, supported by serious research that explicates their effectiveness.
Characteristics of the output and related activities' impact on the educational process	The scientific study introduces the concept of research into the use of augmented reality applications with a focus on the possibilities of developing students' learning processes and teachers' teaching processes. It can be used by prospective student teachers in university teaching as both a teaching material and as a demonstration of appropriately conducted research in a school educational context.
Area of assessment	Teaching Pedagogy in Combination (1st degree and 2nd degree) and Pre-school and Elementary School Education (3rd degree)
Category of the research/ artistic/other output	scientific output

Year of publication of the research/artistic/other output	2016
ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID: 292328
Hyperlink to the record in CRPA or CRAA	https://app.crepc.sk/?fn=detailBiblioFormChildUAPHHP&sid=4B4B099BFC590A83B7ACD68260&sec=detail-kniha
Annotation of the output in English	This university textbook is a systematic, didactic and rendering of knowledge (subject matter) to applicate the relevant subject. Teaching of research methodology and/or Teaching research methods (in general) it is part of university education in the humanities and sciences. This understanding allows students to conceptualize, theorize, generalize, mentally abstracting, in other words, assumptions about things, phenomena, people and human activities which their are based on deep understanding of the context with finding explanations. University textbook is made up of twelve chapters which related to the numbers of learning and teaching units during one semester. University textbook content selection of consists concepts, they are relating to methodology of qualitative researches; these concepts are preferred by the author of this university textbook. University textbook author also contacted his students, they are encouraged to provide feedback on what they would and should include in university textbook of qualitative methodology and what style should be written.
List of maximum 5 most significant citations corresponding to the output	[o1] (Emerging Sources Citation Index:WOS:000674964900032; Web of Science Core Collection:WOS:000674964900032) 315381: Comparison of physical ability and physical performance of children in primary education / Merica, Marián [Autor, 50%] ; Osadán, Róbert [Autor, 30%] ; Kováčová, Viktória [Autor, 20%]. – ESCI ; WOS CC In: Ad alta [textový dokument (print)] [elektronický dokument] : journal of interdisciplinary research. – Hradec Králové (Česko) : Magnanimitas akademické sdružení. – ISSN 1804-7890. – ISSN (online) 2464-6733. – Roč. 11, č. 1 (2021), s. 193-202 [tlačená forma] [online] [o1] (Emerging Sources Citation Index:WOS:000562038200031; Web of Science Core Collection:WOS:000562038200031) 200598: Relationship to sports and active movement activities of students of the Pedagogical Faculty of Comenius University in Bratislava / Merica, Marián [Autor, 40%] ; Osadán, Róbert [Autor, 20%] ; Koreňová, Lilla [Autor, 20%] ; Gunčaga, Ján [Autor, 20%]. – ESCI ; WOS CC In: Ad alta [textový dokument (print)] [elektronický dokument] : journal of interdisciplinary research. – Hradec Králové (Česko) : Magnanimitas akademické sdružení. – ISSN 1804-7890. – ISSN (online) 2464-6733. – Roč. 10, č. 1 (2020), s. 181-187 [tlačená forma] [online] [o1] (Web of Science Core Collection:WOS:000790326400125; SCOPUS:2-s2.0-85097215058) 214976: Digital technologies in education of preschool children – preparing for future / Gunčaga, Ján [Autor, 25%] ; Severini, Eva [Autor, 25%] ; Kožík Lehotayová, Blanka [Autor, 25%] ; Ostradický, Peter [Autor, 25%] ; MIPRO 2020, 43 [28.09.2020-02.10.2020, Opatija, Chorvátsko]. – [recenzované]. – WOS CC ; SCO In: MIPRO 2020 [elektronický dokument] : 43rd International Convention : proceedings / Skala, Karolj [Zostavovateľ, editor]. – 1. vyd. – Rijeka (Chorvátsko) : Croatian Society for Information and Communication Technology, Electronics and Microelectronics, 2020. – ISSN 1847-3946, s. 681-688 [online] [o1] (European Reference Index for the Humanities and Social Sciences:1172597600; SCOPUS:2-s2.0-85195127994) 1179945: Špecifiká vyučovania slovenčiny v primárnom vzdelávaní vo vojvodinskom prostredí = Specifics of teaching Slovak in primary education in the Vojvodina environment / Dúbravová, Adela [Autor, 20%] ; Severini, Eva [Autor, 40%] ; Szentesiová, Lenka [Autor, 40%]. – [recenzované]. – DOI 10.31577/SlavSlov.2024.1.14. – SCO In: Slavica Slovaca [textový dokument (print)] [elektronický dokument] : orgán Slavistického ústavu Jána Stanislava SAV a Slovenského komitétu slavistov. – Bratislava (Slovensko) : Slovenská akadémia vied. Slavistický ústav Jána Stanislava. – ISSN 0037-6787. – ISSN (online) 1336-2364. – Roč. 59, č. 1 (2024), s. 138-149 [tlačená forma] [online] [o1] (Emerging Sources Citation Index:WOS:000834435400001; SCOPUS:2-s2.0-85133680903; Web of Science Core Collection:WOS:000834435400001) 512424: Survey on online learning at universities of Slovakia, Czech Republic and Kazakhstan during the COVID-19 pandemic / Gunčaga, Ján [Autor, 35%] ; Lopúchová, Jana [Autor, 35%] ; Ferdiánová, Věra [Autor, 15%] ; Žáček, Martin [Autor, 10%] ; Ashimov, Yeskendyr [Autor, 5%]. – [recenzované]. – DOI 10.3390/educsci12070458. – ESCI ; WOS CC ; SCO In: Education sciences [elektronický dokument] . – Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute. – ISSN (online) 2227-7102. – Roč. 12, č. 7 (2022), art. no. 458, s. 1-19 [online]

Characteristics of the output's impact on socio-economic practice

The university textbook is a systematic, didactic representation of knowledge (curriculum) related to the relevant subject. The teaching of research methodology (in general) is part of university studies in the humanities (sciences). Its understanding allows the student to conceptualize, theorize, generalize, or mentally abstract; in other words, to judge things, phenomena, human activities, and people on the basis of their deep understanding of finding connections and explanations.

Characteristics of the output and related activities' impact on the educational process

The content of the university textbook consists of a selection of concepts related to the methodology of qualitative research; these are concepts that are contracted in the teaching of the methodology led by the author of this textbook. At the same time, the author of the university textbook contacted his students to give him an opinion on what, according to them, the university textbook of qualitative methodology should contain, and in what style it should be written. The author of the textbook takes into account the opinion of students in the textbook. The objectives of the textbook are focused on the competence profile of the graduate of the course Research Course and from this aspect the university textbook also fulfills the objective: developing the ability to interpret, formulate, design, organize and evaluate processes (and activities) of qualitative research.

