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#### SCENARIOS BASED APPROACH TO ASSESS GLOBAL COMPETENCE IN ENGINEERING MOBILITY PROGRAMS

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The global world requires an essential emphasis on sustainability regarding productivity and industrialization processes, all the more with current environmental issues—water supply, deforestation, climate change—as well as sanitary issues like COVID-19, which permeate throughout and threaten all global activity. At the same time, the new digital era is changing the way we live and we interact, putting the person in the center of organizations and society. Engineers play an important role in this context, since they are actively building the world where we will be living in tomorrow. For all these reasons it is more than ever necessary to strengthen global competence of engineers of the future.

From a theoretical perspective, global and intercultural competence embodies a range of skills, knowledge, attitudes, and behaviors, some of which are easier to assess than others (Deardorff 2006). The global dimension of engineering practice has long been recognized by many scholars and institutions (Jesiek and Beddoes, 2010, Grigg 2014, Yates 2007). However, nowadays, there is still a lack of integration of human, environmental and ethical issues, which do not usually appear in engineering courses.

The development of the TA VIE project ("Tools for Enhancing and Assessing the Value of International Experience for Engineers") presented here stemmed from an international collaboration of five European HEI institutions in Spain, Italy, France, Sweden and Hungry. The TA VIE project has showed that companies understand the relevance of global competencies and young professionals should improve in those competencies. Companies in the five national contexts participating in the project argue that engineers should deploy these competencies to follow market trajectories and face current challenges.

As a result of the first intellectual output of the project a framework of global competencies for engineers was published (Ortiz-Marcos et al. 2020). Now, in this second part of the project, we are ready to share how to measure these competencies with engineering students using an innovative approach.

A growing body of scholarship has emerged around efforts to define, develop, and assess global competency and related constructs among engineering students and professionals (Jesiek et al., 2018; Jesiek, Zhu, et al., 2014; Johri & Jesiek, 2014). During development of TA VIE project, scenario-based model for the assessment of global competencies was designed. TA VIE project is supported by competence measurement framework (OECD, PISA, 2018; PIAAC; 2012) considering that measurement of competencies is quite sensitive to individual own perception because it deals with self-assessment. Cognitive tests based on a situational approach have been developed, using the so called "scenarios", which allows the respondent to answer to the situational questions (competence related) and not thinking about his/her own level of competence. Scenario-based and other types of situational assessment techniques represent intriguing alternatives to the self-assessment approaches outlined earlier. The advantage to use the scenarios approach is a stronger validity of the data. These methods have a long history of use, dating back to at least the 1920s (Jesiek & Woo, 2011; PISA, 2018), and typically present subjects with realistic dilemmas, problems, or situations, and then ask them to identify effective (and/or ineffective) actions or responses. In this paper the result of scenarios designed to measure global competencies will be presented. **keywords: global competence, competence assessment, scenario approach, international experience, engineering**.

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15th International Technology, Education and Development Conference

8-9 March, 2021

# CONFERENCE PROCEEDINGS



### Sharing the Passion for Learning



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ICT & Digital Skills Teacher Training and Support in COVID-19 Times Professional Development of Teachers Educational Management

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Foreign Languages Teaching Foreign Languages during the Lockdown Technology for Language Learning Language Learning

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#### INTED2021 TABLE OF CONTENTS

LEARNING ANALYTICS ASSESSMENT FOR A NUMERICAL METHODS COURSE MOVED INTO A DIGITAL VERSION FOR THE COVID-19 PANDEMIC F.J. Delgado-Cepeda	1
AN EMERGENT NUMERICAL METHODS COURSE IN AN ONLINE AND FLEXIBLE FORMAT DURING THE COVID-19 PANDEMIC M. Enríquez-Flores, F.J. Delgado-Cepeda	7
<b>STUDENTS' DESIGNS SHAPED BY THE UNIVERSITY LEARNING ENVIRONMENT</b> O. Gorgulu, E.A. Karaman, D. Hasirci	13
<b>PEDAGOGICAL PROCESS MODELS IN THE EDUCATIONAL ENVIRONMENT</b> L. Dunaeva, H. Bourina	24
EXAMINATION OF THE CONTENT STRUCTURE OF DISASTER PREVENTION EDUCATION MATERIALS CREATED BY THE BOARD OF EDUCATION BASED ON STUDENT DEVELOPMENTAL STAGE C. Miyazaki, E. Ikuta	30
TO WHAT EXTENT ICT RESOURCES INFLUENCE THE LEARNING EXPERIENCE? AN INQUIRY USING U-MULTIRANK DATA A. Otoiu, E. Țițan	40
THE POTENTIAL OF SCRATCH AS AN EDUCATIONAL ENVIRONMENT FOR TEACHING STUDENTS WITH SPECIAL EDUCATIONAL NEEDS V. Voinohovska, J. Doncheva	46
ONLINE EDUCATION FOR STUDENTS WITH SPECIAL NEEDS J. Doncheva, V. Voinohovska	53
<b>BIOPHILIC INTERIOR DESIGN: A HEALING/THERAPY ENVIRONMENT EDUCATION</b> <b>PROJECT</b> <i>D. Hasirci, Z. Edes, H. Tatari, S. Rolla</i>	61
USING K-NEAREST NEIGHBORS TO CLASSIFY UNDERGRADUATE FEMALE SELF- EFFICACY IN COMPUTER SCIENCE N. Rizk, A. Farooque	71
THE COMPARATIVE ABILITY AS A FRAMEWORK TO MASTER HIGHER TAXONOMIES IN POSTGRADUATE STUDENTS M.E. Aravena Gaete, N. Campos Soto, D. Campos-Galdames	78
LINKING PARENTAL EMOTIONAL SUPPORT INVOLVEMENT AND NCEE IN ADOLESCENTS: THE MEDIATING ROLES OF DEEP STRATEGIES OF LEARNING Y. Xing	84
THE CONCEPT OF NON-COMPETITION IN EDUCATIONAL EVALUATION I. Szőköl	90
TRADITIONAL EVALUATION METHODS I. Szőköl, S. Benková	96
<b>DEVELOPMENT OF CREATIVITY AT THE FOREIGN LANGUAGE CLASSES</b> O. Anyushenkova, T. Karpova, A. Voskovskaya, V. Arevkina, S. Godova	104
MODERN STRATEGIES AND MEANS OF PROVIDING MINI-PRESENTATIONS O. Anyushenkova, T. Karpova, A. Voskovskaya, V. Arevkina, S. Godova	109
INTEGRATION OF TECHNOLOGY INTO NURSING EDUCATION: COLLABORATION BETWEEN COLLEGE OF NURSING AND UNIVERSITY RESEARCH CENTER L. Lioce, K. Budisalich, G. Maddux, N. Goddard, I. Fogle, B. Schroer	117
A CASE STUDY OF A PATIENT WITH COMPRESSION FRACTURES OF THE LUMBAR AND THORACIC SPINE SEGMENTS: UTILIZING 3D PRINTING, 3D SIMULATION, X- RAY AND MRI L. Lioce, G. Maddux, I. Fogle, M. Fogle, C. Gunter, B. Schroer	127
PLAYFUL EXPERIENCE FOR KIDS: PHYGITAL PRODUCT DESIGN FOR ENHANCED LEARNING B. Terenzi	137
EFFECTIVENESS OF APPLYING DIRECT METHOD TO ENHANCE SPEAKING SKILL IN EFL TEENS AT POALÓ GARCÍA MORENO RURAL SCHOOL F. Abata, S. Castro, M. Zuña, M. Yupangui, O. Vega	145

MEASURING AND IMPROVING INSTITUTIONAL EFFECTIVENESS AND ESTABLISHING QUALITY CULTURE AT UNIVERSITIES THROUGH RIGOROUS DATA COLLECTION AND WEIGHTED INDICATORS (CASE OF GEORGIA, TSU) I. Grdzelidze, T. Gabrichidze	154
FEELING OF LONELINESS OF HIGH SCHOOL STUDENTS AND PSYCHOLOGICAL CLIMATE IN THE CLASSROOM SETTING M. Permiakova, O. Chalikova	164
COGNITIVE AND PERSONAL PREDICATORS OF SUCCESSFUL EDUCATION OF STUDENTS O. Chalikova, M. Permiakova, L. Okonechnikova	171
WORKSHOP OF PERSONAL LEARNING ENVIRONMENTS (PLES) FOR TEACHERS. HOW PLES HELP ONLINE TRAINING M.D. La Rubia, C. Rus-Casas, D. Eliche-Quesada, J.D. Aguilar-Peña, G. Jiménez-Castillo	178
MANAGEMENT OF DIGITAL TOOLS AIMED AT PROMOTING ENTREPRENEURSHIP AT HIGHER EDUCATION LEVEL M.D. La Rubia, C. Rus-Casas, D. Eliche-Quesada, J.D. Aguilar-Peña, G. Jiménez-Castillo	185
INTEGRATION OF VIRTUAL REALITY INTO TEACHING PROCESS FOR DESIGN OF MANUFACTURING SYSTEMS M. Matys, M. Krajčovič, G. Gabajová, B. Furmannová, P. Bubeník	190
METHODOLOGY OF STUDYING THE INFLUENCE OF DIGITAL-GENERATION TEACHING AIDS ON THE THEORY AND PRACTICE OF LANGUAGE EDUCATION M. Evdokimova, M. Krasilshchikova	199
<b>TEACHING AND ASSESSING USING VIRTUAL TOOLS DUE TO LOCKDOWN FOR</b> <b>COVID-19 PANDEMIC</b> <i>A.M. Martin-Caraballo, E. Romero Palacios, A.F. Tenorio Villalón</i>	209
ARE 1ST-YEAR STUDENTS COMPETENT IN THE USE OF MATHEMATICAL SYMBOLOGY? A.M. Martin-Caraballo, C. Paralera Morales, A.F. Tenorio Villalón	217
QUANTUM-LEAP IN TEACHING THROUGH THE USE OF MOBILE DEVICES M. Cruz, P. Quadros-Flores	225
PATHS FOLLOWED IN THE RECONFIGURATION OF TEACHING PROFESSIONALITY IN AN EXPERIENCE OF (DE)CURRICULARIZATION OF ENGLISH IN THE 1ST AND 2ND YEARS OF PRIMARY EDUCATION <i>M. Cruz</i>	234
<b>CROATIAN PARENTS' PERCEPTIONS OF PRESCHOOL CHILDREN'S SOCIAL</b> <b>COMPETENCES DURING THE 2020 COVID-19 PANDEMIC</b> <i>T. Kokanović, I. Klasnić, M. Đuranović</i>	244
VIRTUAL REALITY WORLDS INTEGRATION IN FORENSIC MOLECULAR BIOLOGY COURSES W.M. Khalilia, M. Fragkaki, B.Z. Yahya, S.M. Khasib	255
A LEXICOGRAPHIC APPROACH TO TERMINOLOGY MANAGEMENT TRAINING IN THE FIELD OF WAREHOUSE LOGISTICS N. Troufanova, K. Inozemtseva	260
THE IMPACT OF COVID-19 IN THE SUCCESSFUL COMPLETION OF CAPSTONE PROJECTS B. Yáñez, N. McGowan	266
AUDIOVISUAL FEEDBACK FOR ONLINE DESIGN PROJECTS N. McGowan, B. Yáñez	273
<b>THE CONCEPTIONS OF EDUCATION ON AWARENESS OF BIODEGRADABLE PLASTIC</b> <b>FOR SUSTAINABLE DEVELOPMENT</b> <i>M.S. Rasul, S.A. Mohamad Sattar, H. Yamat, R. Abdul Rauf</i>	279
<b>PERCEPTION AND SELF-PERCEPTION STEREOTYPES IN BUSINESS</b> <b>COMMUNICATION. IDENTIFYING PRINCIPLES FOR INTERCULTURAL EDUCATION</b> <i>A.M. Capraru, S. Paduretu, S.C. Munteanu</i>	284
<b>CROSS DISCIPLINARY ASPECTS OF TEACHING HUMANITIES TO ENGINEERING</b> <b>STUDENTS</b> <i>A.M. Capraru, S. Munteanu, S. Paduretu</i>	294
TWO-TIER MULTIPLE-CHOICE QUESTIONS IN ELECTRICAL ENGINEERING: STUDENTS' ATTITUDES A. Gero, Y. Stav	298
MEASUREMENT OF BACHELOR'S DEGREE THESIS QUALITY ON A LINEAR SCALE A. Maslak	302

THE IMPORTANCE OF A CULTURAL-EMBEDDED LEARNING MODEL: RAISING AWARENESS OF CULTURAL HERITAGE F.Y. Loo, F.C. Loo	308
THE CHALLENGES OF DEVELOPING LISTENING COMPREHENSION: EVIDENCE FROM POPULAR EFL COURSE BOOKS O. Blinova	317
TEACHING IDIOMS IN ENGLISH AS A SECOND LANGUAGE: AN ANALYSIS OF ISSUES AND SOLUTIONS O. Blinova	324
INTERACTIVE LEARNING MATERIALS CONTRIBUTION FOR STUDENTS' ENGAGEMENT IN E-LEARNING OF MATHEMATICS CONTENTS: A CASE STUDY DURING THE COVID-19 PANDEMIC A.P. Lopes, F. Soares	329
<b>DEVELOPMENT OF E-LEARNING IN EXPERIENTIAL PEDAGOGY</b> A. Ganorkar, R. Henry, N. Kela, R. Somalwar, T. Junghare, S. Deote	336
THE EFFECTS OF THE CORONAVIRUS DISEASE (COVID-19) PANDEMIC ON THE ACADEMIC PERFORMANCE OF BUSINESS STUDENTS M. Fernández-Olmos, E. Bernal Cuenca, A. Salami-Adesenya	341
BELIEFS OF STUDENTS ABOUT THEIR TRANSLANGUAGING PRACTICES IN A SOUTH AFRICAN UNIVERSITY M.H. Kepe, M.A. Linake	347
AN INTEGRATED ARCHITECTURE FOR COMPLEX E/M-LEARNING ENVIRONMENTS C. De Castro	357
EXAMINING THE FACTORS AFFECTING THE USE OF ONLINE ASSESSMENT TOOLS IN DISTANCE EDUCATION N. Kara	364
LECLIC: A BLENDED METHODOLOGY FOR PUPILS EXCHANGE OF EXPERIENCES ON CLIMATE CHANGE R. Baena Martín-Arroyo, V. González Forés, J. A. Gómez Delgado, M. Pavón Iglesias, A. Serradó Bayés	365
ADAPTIVE LEARNING AND ASSESSMENT: FROM THE TEACHERS' PERSPECTIVE A. Pfeiffer, S. Bezzina, A. Dingli, T. Wernbacher, N. Denk, M. Fleischhacker	375
DEVELOPMENT AND OPERATION OF EMERGING TECHNOLOGIES LABS AND MAKERSPACES IN THE MIDST OF THE COVID-19 CRISIS: A CASE STUDY A. Pfeiffer, M. Fleischhacker, S. Bezzina, S. Stella-Pfeiffer	380
<b>CLOUD SERVICES IN TEACHING TRANSLATION IN TIMES OF COVID</b> M. Matveev, D. Yershov	388
EDUCATIONAL INSPIRATIONS DEVELOPING POLICE-RELIGIOUS COMMUNITIES COLLABORATION AGAINST HUMAN TRAFFICKING AND MODERN SLAVERY A. Šakočius	394
FORMULATION OF TEACHING OBJECTIVES FROM THE POINT OF VIEW OF TEACHERS OF VOCATIONAL SUBJECTS J. Bajtoš	398
ON-LINE TEACHING DURING THE COVID-19 PANDEMIC PERIOD AND ITS EFFECTS ON THE QUALITY OF TEACHING AND ON THE POSSIBILITIES OF VIOLATING ACADEMIC HONESTY FROM THE STUDENTS' POINT OF VIEW J. Bajtoš	404
COMPANY-UNIVERSITY COLLABORATIONS IN THE FIELD OF RENEWABLE ENERGIES	411
A.J. Martínez-Calahorro, L. Hontoria, A.J. Partal-Ureña, F.J. Muñoz-Rodríguez, C. Rus-Casas ACTIVITIES THAT PROMOTE MOTIVATION AND ENTREPRENEURSHIP IN THE MASTER OF RENEWABLE ENERGY	417
L. Hontoria, A.J. Martínez-Calahorro, G. Jiménez-Castillo, J.D. Aguilar-Peña, C. Rus-Casas UTILIZING EYE-TRACKING TECHNOLOGY AND DATA TO AUGMENT UX-UI WEB DEVELOPMENT CURRICULUM	424
C. Blue FROM THEORY TO PRACTICE. HOW TO UNCOVER NEW LIVING DYNAMICS THROUGH PARTICIPATIVE DESIGN: "VALLEY OF SUSTAINABLE FORESTS". A	431
<b>MEXICAN EXPERIENCE</b> R. Pantoja Calderón, J.C. Posada Cortés, J. Cortés Vásquez	
THE LATVIAN MODEL OF YOUTH CULTURAL PARTICIPATION: ENGAGEMENT IN TRADITIONAL DANCING A. Stasulane	438

RUBRIC AS A COMPETENCE-ASSESSMENT TOOL AND CUSTOMIZED FEEDBACK: PLATFORMS FACILITATING ELABORATION	447
R. Ramirez-Vazquez, M.I. Martins, C.E. Mendes, I. Escobar, C. Adelantado, M.D. Olaya, T. Franco, A. Beléndez, E. Arribas	
HOW DO PUPILS STUDY PHYSICS? DO THEY REALLY USE TEXTBOOKS? M.I. Martins, R. Ramirez-Vazquez, C.E. Mendes, I. Escobar, C. Adelantado, A. Beléndez, E. Arribas	458
THE USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES IN THE PROCESS OF FOREIGN LANGUAGE TEACHING FOR CHEMISTRY STUDENTS UNDER LOCKDOWN	468
O. Evgrafova, F. Sakhapova, N. Ziganshina, S. Khasnutdinova	
<b>PRACTICAL IMPLEMENTATION OF THE CASE STUDY METHOD IN PRACTICE OF</b> <b>TEACHING BUSINESS ENGLISH TO STUDENTS OF NON-LINGUISTIC UNIVERSITIES</b> <i>O. Evgrafova, N. Ziganshina, S. Khasnutdinova, F. Sakhapova</i>	475
DIGITAL RESPONSE IN INTERNATIONAL JOINT ONLINE DELIVERY OF BUSINESS AND IT COURSES M. Žagar, N. Drašković, M. Šipek, B. Mihaljević	483
IMPLEMENTATION OF A DIGITAL EDUCATION ACTION PLAN TO REDUCE THE IMPACT OF THE COVID-19 PANDEMIC IN ACADEMIC YEAR 2019-2020 FOR A BELGIAN UNIVERSITY	488
J. Peuteman, S. Verslype, L. Espeel, D. Pissoort, J. Boydens	
METHODS FOR TEACHING FOREIGN LANGUAGES THROUGH VIDEO GAMES WITH VR, AR, MR & XR TECHNOLOGIES K. Mohsen	498
<b>CLOUD-BASED SOLUTIONS ADOPTED IN THE ROMANIAN EDUCATION SYSTEM</b> G. Carutasu, N.L. Carutasu, G.B. Cotet	507
<b>PANDEMIC IMPACT OVER DIGITAL SKILLS TRAINING NEEDS</b> G. Carutasu, G.B. Cotet, N.L. Carutasu	515
<b>DEVELOPMENT OF TEACHER'S CLIMATE CHANGE COMPETENCE THROUGH</b> <b>MOOCS AND OTHER ONLINE COURSES</b> <i>M.A. Fuertes, S. Andrés-Sánchez, D. Corrochano, L. Delgado, P. Herrero-Teijón, A.M. Ballegeer, E.</i>	525
Ferrari, C. Ruiz	
AN ADAPTIVE ARCHITECTURE BASED ON PETRI NETS FOR INTERACTIVE TARGET- ORIENTED E/M-LEARNING SYSTEMS C. De Castro	533
<b>TRAINING RECOMMENDATIONS OF THE KEY ENABLING TECHNOLOGIES IN THE</b> <b>DIGITAL ERA TO VET AUTHORITIES</b> <i>A. Di-Francesca, G. Cañavate-Cruzado, M.V. Bueno-Delgado, G. McMahon, F. Grassadonio, F.J.</i> <i>Moreno-Muro, M. Alonso-Bueno, E. Brankin, Z. McMullan</i>	539
UNIFIED ASSESSMENT METHOD FOR VARIOUS ACCREDITATION SCHEMES E.M. Budi, E. Ekawati	547
UNSATISFACTORY ACADEMIC RESULTS IN THE SUBJECT "ANALYTICAL CHEMISTRY I"	553
J. Albiol Chiva, J. Esteve-Romero, J. Peris Vicente, S. Carda Broch, M.J. Ruíz Angel, M. Esteve Amorós	
IMPLEMENTATION OF ENGLISH AS A TEACHING LANGUAGE IN BIOSTATISTICS AT MASTER DEGREE L. Albia Ching. L. Baria Vianuta, L. Fatarra Barrara, M. Fatarra Amaría, M.L. Buía, Ánad. S. Canda Brack	557
J. Albiol Chiva, J. Peris Vicente, J. Esteve-Romero, M. Esteve Amorós, M.J. Ruíz Ángel, S. Carda Broch	- (4
<b>INNOVATIVE VIRTUAL REALITY PLATFORM FOR INCREASING</b> <b>ENTREPRENEURSHIP COMPETITIVENESS</b> <i>V. Manescu (Paltanea), D. Popovici, I.V. Nemoianu, G. Paltanea, B. Dumitrana</i>	561
IS IT WORTH PURSUING GRADUATE STUDIES? IS A STEM ORIENTATION THE BEST OPTION?	570
A. Otoiu, E. Țițan, P. Dorel, D. Manea	<b>F</b> 01
COMPETENCE ORIENTED AND KNOWLEDGE GRAPH BASED APPROACH FOR INDUSTRIAL ENGINEERING AND MANAGEMENT EDUCATION IN THE NEXT FUTURE	581
J. Ordieres-Meré, G. Morales Alonso, M. Gutiérrez	
ACCEPTANCE OF IMMERSIVE VIRTUAL REALITY IN SECONDARY EDUCATION TEACHERS. AN EXPLORATIVE STUDY OF PERCEPTIONS FROM TEACHERS, IT-STAFF, PRINCIPALS AND TEACHERS' TRAINERS	589

C. Boel, D. Raeijmaekers, T. Rotsaert, M. Valcke, T. Schellens, D. Struyf

PROCEDURES AND WAYS OF WORKING OF A TEACHER WITH THE CURRICULUM LEADING TO THE DEVELOPMENT OF ASSESSMENT AND CRITICAL THINKING OF STUDENTS D. Gunišová	597
INTERCULTURE—BOUNDARY, BRIDGE, OR NETWORKED ACTIVITY SYSTEM? A SYSTEMATIC SCOPING REVIEW OF INTERCULTURAL WORK-TEAMS IN HIGHER EDUCATION S. Haga	604
TEACHING MATHEMATICS IN SYNCHRONIZED VIRTUAL CLASSES: A PROPOSED MODEL IN LIGHT OF THE MATHEMATICAL POWER I. Alhoussain Khalil	615
<b>USING SERIOUS GAMES IN E-LEARNING FOR KIDS</b> A. Nikolova, V. Georgiev	621
EDUCATION LEARNING TOOLS TO ADAPT TEACHING TO A POST-COVID19 CONTEXT	626
H. Mogorrón Guerrero, V. Simón Moya, M. Orero Blat, M. Guijarro García	
<b>INTERCULTURAL COURSE IN THE CURRICULUM FOR UNIVERSITY STUDENTS</b> <i>M. Likhushina, G. Radchenko, E. Masalova, N. Agafonova</i>	631
<b>FEATURES OF PEDAGOGICAL DESIGN OF A DIGITAL LANGUAGE COURSE FOR THE</b> <b>UNIVERSITY STUDENTS</b> <i>E. Egorova, N. Bulankina, O. Mishutina, V. Tsybaneva</i>	639
HOW TO TEACH SOFT SKILLS TO GENERATION Z STUDENTS D. Bender	645
SURVIVAL OF TEACHERS: AN INQUIRY INTO THE NATURE AND MOTIVES OF THEIR ADAPTATION TO THE NEW REALITY T. Suprun, I. Sokolyonova	646
REMOTE LEARNING AND TEACHING METHODOLOGIES IN NORWAY AND ROMANIA C.M. Povian	655
<b>TECHNOLOGY FOR DESIGNING A DIGITAL EDUCATIONAL COURSE FOR THE</b> <b>UNIVERSITY STUDENTS</b> <i>E. Egorova, N. Bulankina, O. Mishutina, V. Tsybaneva</i>	662
THE EXPRESSION OF CHILDREN'S EARLY LEADERSHIP IN GAMES D. Malinauskiene	671
CHALLENGES FACED BY TEACHERS IN EDUCATING MODERN PRESCHOOL CHILDREN D. Malinauskiene	677
THE E-PORTFOLIO AS A REFLECTION TOOL IN THE EDUCATION SCIENCE DEGREE COURSE	683
V. Pennazio, L. Fedeli	
DRIVERS OF STUDENT ENGAGEMENT IN A GLOBAL EMERGENCY PERIOD: SOME REFLECTIONS ON TRANSITION FROM FACE-TO-FACE TO ONLINE LEARNING L. Fedeli, V. Pennazio	691
LINGUISTICS OF THE UNCONSCIOUS, OR HOW WORDS BETRAY OUR THOUGHTS: FROM THE EXPERIENCE OF TEACHING THE STUDENTS WITH DEVIANT BEHAVIOR E. Palekha, S. Khusainova	698
SPEECH TACTICS FOR REDUCING AGGRESSIVENESS IN THE EDUCATIONAL PROCESS E. Palekha, S. Khusainova	706
THE COMMUNICATIVE FORCE OF A PROTOTYPE: TESTING TECHNOLOGICAL DESIGN RESEARCH IN ARCHITECTURE	713
A. Violano, M. Cannaviello COMPARISON OF COMPETENCY SELF-ASSESSMENT BY EARLY CHILDHOOD AND PRESCHOOL EDUCATION STUDENTS REGARDING COLLABORATION WITH PARENTS S. Opić, E. Rogulj, T. Kokanović	722
FOREIGN LANGUAGE TEACHING TO GEN Z STUDENTS (A CASE STUDY OF SPANISH LANGUAGE)	730
E. Dolzhich, S. Dmitrichenkova, Y. Sanchez Pozuelo DEVELOPMENT OF KEY COMPETENCES FOR LIFELONG LEARNING IN STUDENTS DURING MOBILITY A.M. Iveljić, R. Petani, D. Iličić	736

GIFTEDNESS IN THE CONTEXT OF THE CONTEMPORARY CURRICULUM - A THEORETICAL PERSPECTIVE M. Karamatić Brčić	746
GROWING UP CONDITIONS IN BILINGUAL FAMILIES: THE PERSPECTIVE OF PARENTS AND CHILDREN R. Petani, J. Vrkić Dimić, V. Bartolčić	753
<b>THE STRATEGIES OF INTERNATIONAL STUDENTS SPEECH BEHAVIOUR</b> L. Slavina, L. Mustafina, F. Derdizova	764
<b>E-TESTING AS A MEANS OF COMMUNICATIVE SKILLS ASSESSMENT</b> <i>F. Derdizova, L. Mustafina, L. Slavina</i>	769
OUR EDUCATIONAL INSTITUTIONS HOLD THE KEY TO THE SOCIAL CHANGE WE NEED! FIVE WAYS IN WHICH WE MUST AND CAN REIMAGINE THE UNIVERSITY SYLLABUS FOR THE CHALLENGES OF GLOBAL AND DIGITAL SOCIETIES L. Friedrichs, K. Dettmer	774
DIDACTIC MATERIALS FOR TEACHING ARTIFICIAL INTELLIGENCE IN BASIC EDUCATION A.G. Schaeffer, J. Angotti	782
<b>POSTHUMANISM – AN EMERGING PARADIGM SHIFT IN HIGHER EDUCATION?</b> <i>T. Konst</i>	790
EFFECTS OF UNIVERSITY GOVERNANCE AND ACADEMIC IDENTITY TOWARDS FACULTY JOB STRESS, SATISFACTION AND PERFORMANCE IN TAIWAN G.S. Ching, Y.L. Hu	795
EXPERIENCES ON USING DIFFERENT DIGITAL ENVIRONMENTS AND TOOLS FOR ENHANCING LEARNING EXPERIENCES T. Talmo, H.R. Karlsen	803
EARLY CHILDHOOD TEACHER PROFESSIONAL DEVELOPMENT: THE NEED FOR CONTINUING LIFELONG EDUCATION M. Miocic, B. Tokic	810
BLOGGING AS A FORM OF TEACHER MOTIVATING, SUPPORT AND COOPERATION WITH STUDENTS FROM ARMENIA AND GEORGIA (ON THE EXAMPLE OF RUDN UNIVERSITY) A. Bazanova, D. Kurmanova, V. Chebanenko	819
RESEARCHING ATTITUDES TOWARDS READING – A CASE STUDY OF STUDENTS OF THE FACULTY OF MINING, GEOLOGY AND PETROLEUM ENGINEERING, UNIVERSITY OF ZAGREB D. Pleše	825
LANGUAGE SITUATION IN EDUCATION: THE EXPERIENCE OF THE FORMER FRENCH COLONIES	832
E. Maklakova, S. Magfurova, A. Khanova, O. Burenkova, E. Akhmetova, G. Ganieva OPEN BADGES AND ONLINE COMMUNITIES FOR FACILITATING OPEN SCHOOLING AND COLLABORATION IN SCIENCE EDUCATION F. Huber, P. Leitner, B. Jäger, C. Gary, C. Dworsky, K. Iber	837
<b>DESIGNING INTERACTIVE MICRO-CONTENT FOR MOOCS. DESIGN APPROACH</b> <b>AND IMPLEMENTATION IN THE OBERRED PROJECT</b> <i>I. Buchem, R. de Rosa, E. Okatan, A. Clausen, A. Sarauer</i>	838
APPLYING AUGMENTED REALITY ON SMART GLASSES TO MINIMIZE HUMAN ERROR IN HANDS-FREE TECHNICAL TRAINING T. Weber, R. Buchkremer	848
EDUCATION FOR APPLICATION SOFTWARE IN FURNITURE DESIGN (NEEDS OF GRADUATES AT THE UNIVERSITY OF APPLIED SCIENCES IN FERIZAJ) R. Sejdiu, F. Salihu, L. Idrizi, B. Jashari	854
PREDICTING THE FUTURE OF HIGHER EDUCATION PRE-COVID-19: APPLYING BEST PRACTICES DURING COVID-19 L. Zizka, G. Probst	862
APPLICATION OF THE RESPONSE SURFACE METHODOLOGY IN A POSTGRADUATE OPTIMIZATION COURSE V. Yepes, D. Martínez-Muñoz, J.V. Martí	869
<b>REMOTE TEACHING IN CONSTRUCTION ENGINEERING MANAGEMENT DURING</b> <b>COVID-19</b> D. Martínez-Muñoz, J.V. Martí, V. Yepes	879

FACTORS INFLUENCING YOUNG PEOPLE'S CULTURAL PARTICIPATION: PUPILS' VS. STUDENTS' OPINIONS I. Kacane	888
MISSILE-TRAINING PROJECT ON TECHNOLOGICAL ASPECTS OF INFORMATION SECURITY- LEARNING ASPECTS OF THE TEST CASE IN AUSTRIA W. Schabereiter, K. Gebeshuber, T. Strametz, H. Schwab, A. Öffl, M. Fruhmann, S. Prossnegg	896
<b>E-PORTFOLIO AS A MEANS OF IMPROVING PROFESSIONAL COMPETENCE OF THE</b> <b>UNIVERSITY STUDENTS</b> <i>M. Likhushina, G. Radchenko, E. Masalova, N. Agafonova</i>	904
<b>THE CIRCLE OF LIFE. REPRODUCTION AND HUMAN EMBRYONIC DEVELOPMENT</b> <b>TOLD TO PRIMARY SCHOOL CHILDREN</b> <i>L. Furlanetto, M. Bellio, F. Corrà, M. Bonato, S. Shumann, P. Irato, G. Santovito</i>	909
"TEACHER, MAY WE TOUCH IT?" AN INNOVATIVE LABORATORY APPROACH TO ADDRESS MACROSCOPIC AND MICROSCOPIC ANATOMY OF THE DIGESTIVE SYSTEM OF HUMAN AND MAMMALS IN PRIMARY SCHOOL C. Barana, L. Dall'Acqua D'Industria, M. Bellio, F. Corrà, M. Bonato, S. Shumann, P. Irato, G. Santovito	918
<b>LEARNING AND DEVELOPMENT: ICT VERSUS TRADITIONAL GAMING IN</b> <b>KINDERGARTEN, CASE STUDY</b> <i>A. Debeljuh, M. Ruzić-Baf, N. Marfan</i>	928
<b>PRIMARY ENGLISH TEACHING AND LEARNING IN RURAL AREAS: AN ETHICAL</b> <b>ISSUE</b> <i>T.T.T. Do, T.M.L. Nguyen</i>	939
DIFFERENT DIGITAL TECHNOLOGICAL DESIGN LABORATORY A. Violano, S. Rinaldi, M. Merola	943
<b>COOPCAMP PROJECT. A BLENDED INTEGRATED TRAINING PATH FOR EDUCATION</b> <b>TO THE COOPERATIVE MODEL</b> <i>A. Ceccherelli, A. Spinelli, A. Volterrani</i>	953
ATTITUDES OF MALE AND FEMALE TEACHERS TOWARDS UTILIZING SCIENTIFIC RESEARCH IN THE EDUCATIONAL FIELD M. Zorbotan, I. Alhoussain Khalil, M. Khawaji	961
CENTER OF EMPLOYMENT AND PROFESSIONAL DEVELOPMENT OF YOUNG PEOPLE WITH SPECIAL NEEDS N. Koliada, N. Levchenko	966
PEER SUSCEPTIBILITY FROM THE PERSPECTIVE OF STUDENTS OF EDUCATIONAL STUDIES M. Radetić-Paić, J. Kudek Mirošević	971
<b>MULTIMEDIA COMPETENCIES FOR UNIVERSITY STAFF. AN INTERNATIONAL</b> <b>EDUCATION EXPERIENCE</b> <i>A. Draghici, N. Mirea, N. Trunk Širca, V. Dermol, S. Espinosa, A. Rutelione, V. Kreci, L. Ivascu, A.</i> <i>Trunk, M. Metzler, D. Fatol</i>	978
AUGMENTED SPACE LIBRARY: HYBRID P2P LIBRARY FOR REMOTE CROSS REALITY INVESTIGATIONS G. Smith, K. Sung	988
STUDY OF THE ONLINE PBL (PROJECT-BASED LEARNING) EDUCATION SYSTEM USING AI (ARTIFICIAL INTELLIGENCE) AFTER THE COVID-19 T. Ito, M.S. Tanaka, M. Shin, K. Miyazaki	998
A VIRTUAL-LEARNING TOXICOLOGY EXPERIENCE A. Romero, C. García-Cantón, E. Ramos	1006
HOW STUDENTS EVALUATE VIRTUAL-LEARNING IN TOXICOLOGY E. Ramos, C. García-Cantón, A. Romero	1007
LINGUISTIC AMBIGUITIES IN VERBAL JOKES IN BULGARIAN AND ENGLISH T. Borisova	1012
A MULTIDIMENSIONAL AND VIRTUAL SUMMER RESEARCH TRAINING PROGRAM IN THE NEUROSCIENCES FOR UNDERGRADUATE STUDENTS FROM UNDERREPRESENTED BACKGROUNDS AT A HISPANIC SERVING INSTITUTION C.S. Maldonado-Vlaar, J.E. Garcia Arraras, E. Calderón-Cruz, J. Ramirez-Leiton	1021
<b>CITIZEN OBSERVATORIES APPLIED TO GEOLOGICAL RISK MANAGEMENT</b> N. Cruz-Pérez, J. Rodríguez-Martín, I. Galindo, I. Montoya, N. Sánchez, L.E. Hernández-Gutiérrez, A. Ortega Rodríguez, S. Leyva, J.C. Santamarta	1022
THE POTENTIAL OF VIDEO GAMES AS A TOOL FOR STUDENTS' LEARNING A. Iufereva, P. Oleneva	1026

EFFECTIVE USE OF RUBRICS EMBEDDED IN LEARNING MANAGEMENT SYSTEM FOR GRADING GARMENT CONSTRUCTION PROJECTS IN FASHION DESIGN <i>M. Kumar</i>	1032
<b>QRQC KNOWLEDGE ACQUIRING TROUGH AN EXPERIENTIAL LEARNING ACTIVITY</b> O. Trull-Dominguez, A. Peiró-Signes, J.C. García-Díaz, J.A. Cabrero	1038
IMPROVING THE PREPARATION OF THE PRACTICAL IN ANALYTICAL CHEMISTRY LABORATORIES BY THE STUDENTS THROUGH THE INTRODUCTION OF ORAL EXPOSITIONS J. Esteve-Romero, J. Peris Vicente, S. Carda Broch, J. Albiol Chiva, M.J. Ruíz Ángel, M. Esteve Amorós	1047
THE ROLE OF INSTITUTIONAL EDUCATION IN TEACHING PERSONAL SECURITY ON THE INTERNET - WHOSE DUTY IS IT TO EXPLAIN THE DANGERS OF PRIVATE CONTENT ABUSE? P. Lenghart, A. Lesková	1053
WORKING LIFE INSIGHTS FOR HIGHER EDUCATION IN SERVICE DESIGN APPROACH P. Tossavainen	1057
<b>DIGITAL HUMANISM: ALLY FOR ACADEMIC PRODUCTION IN TIMES OF COVID-19</b> L. de Miguel, S. Nuere	1065
CARD GAMES: A COMPLEMENTARY TOOL FOR LEARNING MATHEMATICS S. Lantarón Sánchez, M. López González, J. Rodrigo Hitos	1076
<b>IMPLEMENTING HYBRID EDUCATION USING THE MATHEDU DIGITAL-TEACHING</b> <b>CONCEPT – AN EXAMPLE FROM MATHS TEACHER EDUCATION</b> <i>A. Beckmann</i>	1083
LEARNING WITHOUT A LAB: TOOLS FOR TEACHING STUDIO PHOTOGRAPHY VIRTUALLY E. Walker	1089
RECYCLING TRASH IN THE SOFTWARE ENGINNERING SCHOOL AT THE AUTONOMOUS UNIVERSITY OF ZACATECAS, AS A WAY TO REDUCE AND BECOME USEFUL SOLID WASTES: A STUDY CASE A.L.A. Borrego Elías, E. García Sánchez, P.C. Godina González, J.M. Cervantes Viramontes, M.A. García Sánchez	1097
THE ROLE OF AUDIOVISUAL TECHNIQUES IN TEACHING ENGLISH TO PRESCHOOLERS A. Pushkina, L. Krivoshlykova, M. Afanasyeva	1101
INFOGRAPHICS AND THE PROBLEM-SOLUTION PATTERN FOR ORAL PRACTICE IN A VIRTUAL CONTEXT D. Campos-Galdames, B. Gilliiand, C. Palma	1107
<b>DESIGN OF MATERIALS FOR LEARNING STATISTICS</b> A.V. Garcia Luengo, L. Piedra Muñoz	1115
MASS CASUALTY INCIDENT (MCI) TRAINING: SCHOOLS, COMMUNITY AND UNIVERSITY COLLABORATION	1123
K. Budisalich, L. Lioce, G. Maddux, N. Goddard, I. Fogle, B. Schroer MAKING SCHOOL SAFETY AFFORDABLE: APPLYING TECHNOLOGY AND COMMONSENSE TO PROTECT STUDENTS IN ECONOMICALLY CHALLENGED SCHOOL SYSTEMS	1133
K. Budisalich, L. Lioce, G. Maddux, N. Goddard, I. Fogle, D. Moeller, B. Schroer <b>GLOBAL LEARNING STRATEGIES FOR TOXICOLOGY STUDENTS, USING ICT TOOLS</b> P. Moyano, J.M. Garcia, J. Garcia, M.V. Naval, A. Flores, J. Sanjuan, L. Guerra, E. Sola, A. Pelayo, M. Lobo, M.T. Frejo, M.J. Anadon, J. Del Pino	1143
<b>FLIPPED LEARNING METHODOLOGY AND A GLOBAL LEARNING STRATEGY TO</b> <b>MAXIMIZE LEARNING OF TOXICOLOGY STUDENTS</b> <i>P. Moyano, M.V. Naval, L. Guerra, J. Garcia, J.M. García, A. Flores, J. Sanjuan, E. Sola, A. Pelayo, M.J.</i> <i>Anadon, M. Lobo, M.T. Frejo, J. Del Pino</i>	1144
THE USE M-LEARNING IN AGRICULTURAL ENGINEERING STUDIES: GENDER ANALYSIS	1145
E. Salmerón-Manzano, A. Alcayde García, A. Zapata, F. Manzano-Agugliaro GENERIC SKILLS ASSESSMENT IN THE MASTER OF LAWS AT UNIVERSITY OF	1154
<b>ALMERIA</b> E. Salmerón-Manzano, A. Alcayde García, A. Zapata, F. Manzano-Agugliaro	
SHOULD BEHAVIORAL INSIGHTS BE TAKEN INTO ACCOUNT IN SERVICE DESIGN? K. Hytönen, P. Tossavainen	1164

PRICE LITERACY AS A PART OF THE KNOWLEDGE OF UNIVERSITY STUDENTS IN	1172
THE CZECH REPUBLIC M. Beranová, J. Abrhám, M. Navrátilová	1172
PREDICTING ENGLISH PROFICIENCY WITH READ-ALOUD PERFORMANCE AND LINGUISTIC DIFFICULTY OF SENTENCES K. Kotani, T. Yoshimi	1180
SCIENTIFIC RESEARCH VERSUS ACADEMIC INTEGRITY – A FUNDAMENTAL BINOMIAL IN UNIVERSITY EDUCATION C.O. Stanciu, P.R. Enache, N.T. Lehaci, D.E. Țuțuianu	1186
<b>EDUCATION AND TRAINING IN CIVIL-MILITARY COOPERATION FOR FUTURE</b> <b>SUBJECT MATTER EXPERTS</b> <i>C.O. Stanciu, P.R. Enache, N.T. Lehaci, D.E. Țuțuianu</i>	1196
<b>INCREASE THE USAGE OF INFORMATION SYSTEMS BY GAMIFICATION</b> C. Ploder, T. Dilger, R. Bernsteiner, J. Haller	1204
VIRTUAL REALITY IN FORENSIC SCENARIO USED IN HIGHER EDUCATION INSTITUTIONS IN PALESTINE	1214
V. Manescu (Paltanea), D. Popovici, I.V. Nemoianu, G. Paltanea, B. Dumitrana UNIVERSITY – INDUSTRY PARTNERSHIP: COMPARISON OF SELECTED UNIVERSITIES BY THE S2B CRITERIA T. Corejova, M. Rostasova, L. Mozuchova, A. Valicova	1220
JOINT CURRICULUM DESIGN ON CIRCULAR ECONOMY PRACTICES WITHIN THE FURNITURE INDUSTRY FOR A VOCATIONAL EDUCATION TRAINING J.J. Ortega Gras, J. Garrido Lova, A. Muñoz Puche, E. Mouazan, M.V. Gómez Gómez, J. Rodriguez Fuentes, A. Rajala	1227
TRANSFERRING INDUSTRY KNOWLEDGE GAPS ON PUBLIC PROCUREMENT OF INNOVATION INTO LEARNING OUTCOMES FOR A FUTURE VOCATIONAL EDUCATION TRAINING J.J. Ortega Gras, J. Garrido Lova, F.J. Melero Muñoz, J. Bredmose, M.C. de Guerrero Manso, S. Guardati,	1238
D. Vertelkiené, A. Gorczynska	1040
<b>EVALUATING THE FACTOR STRUCTURE AND MEASUREMENT INVARIANCE OF</b> <b>INSTRUCTIONAL QUALITY IN MATHEMATICS EDUCATION ACROSS COUNTRIES</b> <i>X. Liu, K. Yang Hansen, M. Valcke, J. De Neve</i>	1249
THE REMOTE FORMAT OF CURRENT, INTERMEDIATE, AND FINAL STUDENTS' FOREIGN LANGUAGE KNOWLEDGE ASSESSMENT AT UNIVERSITIES: TECHNOLOGY CHALLENGES FOREIGN LANGUAGE TEACHERS FACE L. Prokofyeva, S. Khizhnyak, A. Belyaeva, E. Vyushkina	1257
A SURVEY OF STUDENTS' READINESS TO DISTANCE LEARNING DURING THE PANDEMIC LOCKDOWN L. Prokofyeva, E. Vyushkina, S. Khizhnyak, N. Isaeva	1261
GENERIC, SPECIFIC AND ENTREPRENEURIAL COMPETENCIES: A PLS APPROACH R. Ferreras-Garcia, J. Sales-Zaguirre, E. Serradell-López	1266
PLANNING AND BEGINNING A UNIVERSITY COURSE IN A GLOBAL PANDEMIC: THE CASE OF AGRICULTURAL ENGINEERING AT THE UNIVERSITY OF LA LAGUNA (CANARY ISLANDS, SPAIN) J.C. Santamarta, J. Rodríguez-Martín, A. Hernández Alemán, N. Cruz-Pérez	1271
<b>IMPACT OF COVID-19 ON ACADEMIC COMMUNITY SUSTAINABILITY</b> E. Kamil Hussein, I. Alhoussain Khalil, I. Ahmed Mari	1275
THE DIGITAL CHASM FOR DISADVANTAGED STUDENTS IN POSTSECONDARY EDUCATION—BANDWIDTH IS ONLY PART OF THE PROBLEM S. Ruth, T. Sosorburam	1286
E-LEARNING TRENDS AND BENEFITS: RUSSIAN REALITIES S. Revinova, I. Lazanyuk	1295
<b>BOOSTING INNOVATION IN EDUCATION AND RESEARCH OF PRECISION</b> <b>AGRICULTURE IN PALESTINE</b> Z. Palkova, M. Harničárová, J. Valíček, V. Stehel, M. Fragkaki	1305
<b>NEW APPROACH IN EDUCATIONAL TECHNOLOGY</b> Z. Palkova, M. Harničárová, J. Valíček, V. Stehel	1311
SELECTING A PROFESSIONAL TRAINING COURSE APPLYING MULTI-CRITERIA DECISION TECHNIQUES M. Romero, L. Romero, M.L. Cuadrado, M. Álvarez	1319

A MODEL OF THE DISTANCE LEARNING COURSE «PHYSICAL TRAINING AND SPORTS»	1325
V.N. Kremneva, E.M. Solodovnik, L.A. Nepovinnih, A.S. Kariauli	
<b>THE PERCEPTION OF BUSINESS STUDENTS' ETHICS</b> R. Caldeira, M. Varela, A. Dias, R. Silva	1331
THE TEACHING OF ARCHITECTURAL RESTORATION THROUGH INSTITUTIONAL COOPERATION BETWEEN THE UNIVERSITY AND THE TERRITORY FOR THE RECOVERY OF MINOR HERITAGE G. Martines	1339
TRAINING ACADEMIC COMMUNICATION SKILLS WITH APPLICATIONS FOR SMARTPHONES N. Sigacheva, A. Korotkova, M. Mefodeva, N. Samarkina	1344
MOBILE APP TO SUPPORT PHYSIOTHERAPY STUDENTS IN THE CONTEXT OF COVID-19 A. Alves Lopes	1349
ESCAPING GLOBAL WARMING: A CASE STUDY FOR DIGITAL AND EDUCATIONAL ESCAPE ROOMS T. Ouariachi, M. Van Dam	1350
<b>REMOTE TEACHING IN RUSSIA UNDER COVID-19 LOCKDOWN: PROS AND CONS</b> <i>I. Yarmakeev, T. Pimenova, A. Abdrafikova</i>	1356
EDUCATIONAL STRATEGIES TO INCREASE STUDENT KNOWLEDGE AND REFLEXION ABOUT PHYSIOTHERAPY INTERVENTION IN THE CONTEXT OF COVID- 19	1369
A. Alves Lopes, H. Santos, A. Vieira, G. Barreto, A. Fernandes Lopes, I. Baleia, M. Rosado, M.E. Martins, J. Esteves, P. Araújo	
HOW TO MANAGE PEDAGOGICAL CONFLICTS: TIPS EVERY PRE-SERVICE TEACHER SHOULD KNOW I. Yarmakeev, A. Abdrafikova, T. Pimenova	1370
<b>THE ROAD TO A BONA-FIDE DISTANCE EDUCATION COURSE</b> C.S. Yang	1380
MEDIATION OF ONLINE SENSORY MARKETING THROUGH ONLINE COLLABORATION SOFTWARE K. Hamacher, R. Buchkremer	1387
STUDENT LIFE EXPECTATIONS REGARDING THE CAREER DECISION OF DISADVANTAGED STUDENT GROUPS DURING THE COVID-19 PANDEMIC C. Cîrtiță-Buzoianu, V.M. Cojocariu, G. Mares	1397
IMPROVEMENT OF STUDENTS` PROFESSIONAL MUSICAL SKILLS THROUGH THE IMPLEMENTATION OF THE MODEL OF MUSICAL PEDAGOGICAL CONTENT KNOWLEDGE S. Karkina. R. Valeeva	1406
SIGNATURE PEDAGOGY IN MUSIC EDUCATION THROUGH THE IMPLEMENTATION OF SMALL PRIVATE ONLINE COURSE S. Karkina, L. Kuznetsova	1415
A LATENT TRAIT ANALYSIS OF HIGHER EDUCATION INFRASTRUCTURE IN RUSSIA A. Maslak	1422
GAME TECHNOLOGIES IN HIGHER EDUCATION U. Ovezova, M.N. Wagner	1430
PANDEMIC: THE PHANTOM MENACE: LEARNING GENETIC ENGINEERING BY A GAME-BASED METHODOLOGY J.M. Navarro Llorens, M. Lorente Pérez, C. Blázquez Ortiz, B. García-Fojeda García-Valdecasas, O. Cañadas, S. Castillo-Lluva, G. Velasco, F.G. Guevara Acosta, M. Ruiz-Ortega, S. Baldanta Callejo, L. Nogués, A. Sánchez Torralba	1435
<b>REMOTE AIR TRAFFIC CONTROL (ATC) TUTORING ASSISTANT TOOL</b> <i>M. Liang, N. Evans</i>	1444
ANALYZING THE IMPACT OF NONFORMAL EDUCATION IN WINE MARKETING A.A. Ducman, S.V. Oprea, A. Bâra, C. Ceaparu, G. Ene	1449
<b>UNIVERSITY BRANDING: USING SOCIAL MEDIA TOOLS IN HIGHER EDUCATION</b> <b>MARKETING</b> <i>B. Amalancei, C. Cîrtiță-Buzoianu, G. Mares</i>	1458
ANALYZING THE RESULTS OF SWITCHING FROM TRADITIONAL TO ONLINE CLASSES A.A. Ducman, S.V. Oprea, A. Bâra, G. Ene, C. Ceaparu, V. Diaconita	1465

A NOVEL APPROACH TO ONLINE PHYSICS REFRESHER COURSES AT POLITECNICO DI MILANO P. Gondoni, M. Bozzi, B. Balossi, G. Calisesi, E. Ferocino, I. Genco, L.M. Molteni, A. Pini, F. Rezoagli,	1471
M. Zanoletti, M. Zani	
<b>EXPERIENCE OF USING MOOCS IN RUDN UNIVERSITY</b> I. Amiantova, E. Ivanova, V. Glebov	1476
HOW HIGHER EDUCATION IS REACTING ON CLIMATE CHANGE – EXPERIENCES FROM FINLAND T. Konst, M. Friman	1481
MICROLEARNING FORMATS: "SPICING UP" THE DISTANCE TEACHING MODES DURING THE LOCKDOWN PERIOD P. Brebera	1487
<b>USING CHATBOT FOR COURSE EVALUATION IN HIGHER EDUCATION</b> A. Čižmešija, G. Hajdin, D. Oreški	1494
<b>TRANSFORMATION OF TEACHERS' TRAINING IN OPEN EDUCATIONAL</b> <b>ENVIRONMENT</b> <i>O. Kitikar, T. Ilievitch, I. Dercacenco, R. Kovaleva</i>	1502
WEBSITES FOR MORE EFFECTIVE DIGITAL TEACHING AND LEARNING IN HIGHER EDUCATION R. Radics	1508
THE ROLE AND USE OF LEARNINGAPPS IN THE TEACHING OF CONTEMPORARY HUNGARIAN LITERATURE R. Radics	1513
<b>GENERAL PHARMACOLOGY: FROM FACE-TO-FACE TO REMOTE LEARNING</b> E. González-Burgos, A. Garcimartín Álvarez	1519
MEANING-MAKING IN TECHNOLOGY-ENHANCED LEARNING ACTIVITIES: A COMPOSITE PERSPECTIVE OF TECHNOLOGIES AND THEIR PROPERTIES AND USERS' REPRESENTATIONS K. Schnaider, L. Gu	1526
PROFESSIONALLY ORIENTED FOREIGN LANGUAGE TEACHING J. Ageeva	1536
AGRI-FOOD TRANSBORDER COMPETENCES ON THE DEGREE PROGRAMS IN THE FRAMEWORK OF TRANSVERSALIS M. Alcalà Vilavella, M. Palma, F. Julián Pérez, J. Tresserras, M. Pérez-Cabaní, F.X. Espinach	1542
TOPICAL ISSUES OF EDUCATIONAL POLICY IN THE CONTEXT OF THE BOLOGNA PROCESS: THE CASE OF THE RUSSIAN FEDERATION I. Amiantova, N. Mikhaylova	1550
TRAINING MANAGERS IN SYSTEMS THINKING IN THE XXI CENTURY: ORIGINS AND MODERN REQUIREMENTS N. Levkin	1554
RETRIEVAL PRACTICE: AN EXPERIMENT ON LEARNING ENHANCEMENT IN HIGHER EDUCATION	1561
J.F. Gallego-Nicholls, E. Pagán-Castaño, M. Rodriguez-Garcia, K. Ulrich-Berenguer	
COLLABORATION FOR LEARNING – HOW CAN IT BE DONE? – A CASE STUDY IN A TESTBED ENVIRONMENT BETWEEN A COMPANY, HEALTHCARE PROFESSIONALS AND THE PUBLIC IN PRIMARY CARE S. Samuelson, A. Svensson, S. Pennbrant, I. Svenningsson	1566
GAMIFICATION OF LEARNING BPMN: BUSINESS PROCESS MODELING WITH A BOARD GAME FOR KNOWLEDGE TRANSFER AND RAISING THE LEARNER'S MOTIVATION B. Kutun, W. Schmidt	1567
DESIGN OF AN INSTRUMENT TO MEASURE SELF-REGULATED LEARNING IN UPPER SECONDARY LEVEL IN MEXICO J. Fernández-de-Castro, M.F. Flores Munguía, L.M. Rojas Muñoz	1574
<b>ENHANCING WOMEN'S ENTREPRENEURSHIP THROUGH A COMIC BOOK</b> E. Rivo-López, J.F. Lampón, M. Villanueva-Villar, C.M. Míguez-Álvarez	1583
<b>TEACHING BUSINESS MANAGEMENT WITH MOVIES</b> E. Rivo-López, F. Reyes-Santías, M. Villanueva-Villar, C.M. Míguez-Álvarez	1589
APS-INFRAVERDE: A PROPOSAL FOR A SERVICE LEARNING PROJECT FOR THE URBAN WELL-BEING IN LOW INCOME NEIGHBOURHOODS IN THE CITY OF	1596
MADRID C. Calderón-Guerrero, J. Margeli, I. Ochoa, P. Rubio	

USING DIGITAL TECHNOLOGY TO CAPTURE AND ASSESS UNDERGRADUATE CLINICAL COMPETENCY DEVELOPMENT. A CASE STUDY OF PHYSIOTHERAPY	1604
UNDERGRADUATES FROM THE UNITED KINGDOM S. McKinnell, D. Prescott	
FROM SCHOOL TO UNIVERSITY: INSTITUTIONAL "BRIDGES" TO EDUCATIONAL SUCCESS P. Ambarova	1605
«SILVER» EDUCATION IN RUSSIA: WHAT OLDER RUSSIANS CAN LEARN AND WHAT THEY CAN TEACH OTHERS P. Ambarova	1612
GUEST LECTURES AS FORMS OF INTERACTION BETWEEN A HIGHER EDUCATION INSTITUTION AND EMPLOYERS IN FORMATION OF FUTURE SPECIALIST'S PROFESSIONAL COMPETENCES N. Bilan, M. Netreba	1619
THE BEHAVIORAL STRATEGIES OF RUSSIAN STUDENTS: MOVING TOWARDS CHANGE G. Zborovsky	1626
EDUCATIONAL STRATEGIES OF RUSSIAN STUDENTS IN THE CONTEXT OF THE CORONAVIRUS PANDEMIC: IMPACT ON EDUCATIONAL SUCCESS G. Zborovsky, S. Pankova	1633
WIND ENERGY: A CLEAN MOTIVATIONAL PROBLEM FOR EDUCATION ON CONTROL ENGINEERING J.E. Sierra-Garcia, M. Santos Peñas	1640
<b>EXAMINING THE SUCCESS OF ONLINE MARKETING ACTIVITIES IMPLEMENTED</b> <b>USING THE WEBSITE OF UNIVERSITY DEPARTMENT</b> <i>M. Majerčáková, M. Kincl, J. Kurotová, R. Chinoracký</i>	1646
MEASURING THE SUCCESS OF THE ACTIVITIES OF THE UNIVERSITY DEPARTMENT FOR ATTRACTING NEW STUDENTS ON SOCIAL NETWORKS M. Majerčáková, P. Janošková, J. Kurotová, R. Chinoracký	1654
USING AUGMENTED REALITY TO INTRODUCE THE BOHR ATOMIC MODEL IN 3D IN THE CLASSROOM – A STUDY ABOUT LEARNING EFFECTS AND PERCEPTION OF STUDENTS C. Probst, S. Lukas, J. Huwer	1661
A COMPETITION TO STRENGTHEN THE LEARNING OF THE SQL PROGRAMMING LANGUAGE A.J. Díaz-Honrubia, A. Rodríguez-González, E. Menasalvas-Ruiz, L. Megual-Galán, C. Fernández- Baizán	1669
OPPORTUNITIES AND CHALLENGES OF APPLICATION OF VIRTUAL LEARNING ENVIRONMENT IN PRIMARY EDUCATION S. Kovienė, A. Plaušinaitienė	1678
THE EXPERIENCES OF PRIMARY TEACHERS IN EDUCATION OF SOCIAL AND EMOTIONAL LITERACY OF STUDENTS S. Koviene, A. Plaušinaitiene	1688
MORAL REFLECTION WITH VIDEO GAMES: AN APPROACH THROUGH SPONTANEOUS PLAY WITH PAPERS, PLEASE B. Cabellos, D. López Sánchez, K. Marín, J.I. Pozo	1697
<b>INTRODUCTION TO PHYSICAL OCEANOGRAPHY FOR HIGH-ABILITY STUDENTS</b> M. Bolado-Penagos, A. Aldarias, T.A. Plomaritis, I. Laiz	1706
NEW DYNAMIC FUNCTIONS IN EXCEL IN RESPONSE TO SELECTED CHALLENGES OF THE AGE OF BIG DATA P. Lasak, M. Kralova	1716
<b>SOFTWARE TOOLS FOR TEACHING AND LEARNING SOUND SYNTHESIS</b> J. Oliver, B. García Zapirain	1724
FORMATION OF PROJECT SKILLS IN PROSPECTIVE MATHEMATICS TEACHERS IN THE PROCESS OF PEDAGOGICAL PRACTICE E. Sukhovienko, S. Sevostyanova, R. Nigmatulin, E. Martynova	1730
E-SPORTS: HOW IT DEVELOPS PERSONAL SKILLS. CASE STUDY APPROACH OF THE SPANISH LEAGUE OF LEGENDS C. Ruiz-Viñals, A. Alonso-Muñoz	1740
MEET-UP 4TH EDITION: A COMPANION PROGRAM FOR STUDENTS WITH AUTISTIC DISORDER. WORKING PROGRESS J. López, S. Mampel, L. Montero, M. Vilalta	1748

BEST PRACTICES IN STUDENTS' PREPARATION IN PROGRAMMING COMPETITIONS         1755           c. Alumatory         1760           STRATEGIES TO INVOLVE THE STUDENTS IN THEIR LEARNING IN A         1760           BIOCHEMISTRY LABORATORY         1760           STRATEGIES TO INVOLVE THE STUDENTS IN THEIR LEARNING IN A         1760           A Sobraid, M. J. & Marone Direns         1760           VIRTUAL MENTORING PROGRAM DURING COVID-19         1769           A.C.C. Norotha, B.F. Paulo, L.J. Pinouti, L.M. Gones, C.A. Martins, M.M. Silon, L. Ribeiro Santes, L.K. Tdes, F.A. Percin, S.S.D. Custadio, L. de Oliveira Zdi, L.B. Henriques, R.D. Took, M.M.S. Matsumoto, N. Joáa         1769           ApplicATION OF THE GAME ON INTERNATIONAL MARKETS IN THE DEVELOPMENT OF THE SOLAL WAS MATHON MECHANISME FOR INCLUDING GENDER PERSPECTIVES" IN THE DEVELOPMENT OF THE SOLAL WAS MALANCE AND CHANGE MANAGEMENT'         1782           V. Guerola-Maurro, R. Oltra-Badenes, H. Gil-Gomez         1782           THE ROLE OF HIGHER EDUCATION INSTITUTES IN PUBLIC SECTOR INNOVATION 1788         1788           VEGOSYSTEMS         1782         1795           S. Lungia, S. Kamphinen         1795           ApplicATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS         1795           M.FOROSMENTIE, F. MARCHANG PHYSICS COURSE DUE TO COVID-19         1784           REGONSTEMS         1795           M. BOADAMARITIE, J. MARDING PHYSICS COURSE DUE TO COVID-19		
BIOCHEMISTRY LABORATORY       A. Sadorido, M. Li de Mada Risseo, B. Olmode Lazano, M. Lorente Pérez, M. Arroyo Sánchez, M.J. Feito         Casbellano, A. Sánchez Torralba, J.M. Navarro Llorents       1769         A.C.C. Naronda, B.F. Paulo, L.J. Punont, I.M. Gones, C.A. Martins, M.M. Silva, L. Ribeiro Santos, L.K. Teles, F.A. Pereira, S.S.D. Custidio, I. de Olfveira Zeli, L.B. Henriques, K.D. Fook, M.M.S. Matsumoto, N. Jodas       1776         APPLICATION OF THE GAME ON INTERNATIONAL MARKETS IN THE       1776         DEVELOPMENT OF THE SUSTAINABLE DEVELOPMENT GOAL (SGO) of "REDUCE INEQUALITY BETWEEN COUNTRIES" IN THE UNIVERSITY COURSE OF "ENTERPRISE"       1776         V. Guerola-Nauror, R. Ottra-Badenes, H. Gi-Gonez       1782       1782         APPLICATION OF THE ATOMIC BUNKER GAME IN THE DEVELOPMENT OF THE SDB (COORDINATION MECHANISMS FOR INCLUDING GENDER PERSPECTIVES'IN THE SUBJECT OF "ORGANIZATIONAL BEHAVIOR AND CHANGE MANAGEMENT"       1782         V. Guerala-Navaro, R. Ottra-Badenes, H. Gil-Gonez       1784       1782         THE ROLE OF HIGHER EDUCATION INSTITUTES IN PUBLIC SECTOR INNOVATION       1788       52. Laajus, S. Kauppinen       1782         APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS       1795       355555MENT IN AN ENGINEERING PHYSICS COUNSED DUE TO COVID-19       1784         FROM IN-PERSON TO ONLINE LESSONS: A STUDY       1804       1804       1804         USING MOCE FOR FEI/ESP TEACHING IN A DISTANCE MODE: A CASE OF A       1810       1810         US		1755
Castellamo, A. Sinchez Torralba, J.M. Navarro Llorens VIRTUAL MENTORING PROGRAM DURING COVID-19 I769 A.C. Naronha, B.F. Panlo, L.J. Pimont, I.M. Gones, C.A. Martins, M.M. Siloa, L. Ribeiro Santos, L.K. Teles, F.A. Pereira, S.S.D. Cusiddio, J. de Olfevira Zeli, J.B. Henriques, K.D. Fook, M.M.S. Matsumoto, N. Jodas APPLICATION OF THE GAME ON INTERNATIONAL MARKETS IN THE DEVELOPMENT OF THE SUSTAINABLE DEVELOPMENT GOAL (SGG) OF "REDUCE INEQUALITY BETWEEN COUNTRIES" IN THE UNIVERSITY COURSE OF "ENTERPRISE" V. Cuerola-Nararo, R. Oltra-Badens, H. Gil-Gomez APPLICATION OF THE ATOMIC BUNKER GAME IN THE DEVELOPMENT OF THE SDG ("COORDINATION MECHANISMS FOR INCLUDING GENDER PERSPECTIVES" IN THE SUBJECT OF "ORGANIZATIONAL BEHAVIOR AND CHANGE MANAGEMENT" V. Guerola-Nararo, R. Oltra-Badenes, H. Gil-Gomez THE ROLE OF HIGHER EDUCATION INSTITUTES IN PUBLIC SECTOR INNOVATION ECOSYSTEMS S. Luojus, S. Kamppinen APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS ASSESSMENT IN AN ENCINEERING PHYSICS COURSE DUE TO COVID-19 J.M. Brotons-Martinez, F. Martinez-Perez, J. Solanu-Jinnenz, J.M. Caimara-Zapata FROM IN-PERSON TO ONLINE LESSONS: A STUDY E Martinez-Martin, A. Costa USING MOCS FOR EFLESP TEACHING IN A DISTANCE MODE: A CASE OF A RUSSIAN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING A. Garabichenko USING THE FRACTICES OF FRUMARY SCHOOL TEACHERKS G. DE KOSI, M. Gardin, D. Ramano, A. Gersahchenko USING THE PRACTICES OF FRUMARY SCHOOL TEACHERS G. DE KOSI, M. Gardi, D. Pannano, A. Gersahchenko USING THE PRACTICES OF PRIMARY SCHOOL TEACHERS G. DE KOSI, M. Gardi, D. Pantano BARRIERS TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH ADD FORMATIVE NEEDS OF FRUMARY SCHOOL TEACHERS G. DE KOSI, M. Gardi, D. Pantano BARRIERS TO EDUCATION AND ACHEEVENT A. Moore, H. J. Oranizo EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE TOWARD TECHNOLOGY SELF-ASSESSMENT T. Sofius, C. Pierrakos EFESTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A. Kaluninastapa EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATI	<b>BIOCHEMISTRY LABORATORY</b>	1760
A.C.C. Noronha, B.F. Paulo, L.J. Pimont, I.M. Gomes, C.A. Martins, M.M. Silva, L. Ribeiro Santos, L.K. Teles, F.A. Pereira, S.S.D. Cusiódio, I. de Oliceira Zeli, L.B. Henriques, K.D. Fook, M.M.S. Matsumoto, N. Jodas APPLICATION OF THE GAME ON INTERNATIONAL MARKETS IN THE IDEVELOPMENT OF THE SUSTAINABLE DEVELOPMENT GOAL (SOG) OF "RIDUCE INEQUALITY BETWEEN COUNTRIES" IN THE UNIVERSITY COURSE OF "ENTERPRISE" V. Guerola-Nararra, R. Oltra-Badens, H. Gil-Gonez APPLICATION OF THE ATOMIC BUNKER GAME IN THE DEVELOPMENT OF THE SDG ("COORDINATION MECHANISMS FOR INCLUDING GENDER PERSPECTIVES") IN THE SUBJECT OF "ORGANIZATIONAL BEHAVIOR AND CHANGE MANAGEMENT" V. Guerola-Nararra, R. Oltra-Badens, H. Gil-Gonez THE ROLE OF HIGHER EDUCATION INSTITUTES IN PUBLIC SECTOR INNOVATION ECOSYSTEMS S. Laojus, S. Kauppinen APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS ASSESSMENT IN AN ENCINEERING PHYSICS COURSE DUE TO COVID-19 J.M. Brotons-Martinez, F. Martinez-Perez, J. Solano-Jimenez, J.M. Cámarra-Zaputa EROM IN-PERSON TO ONLINE LESSONS: A STUDY [M. Brotons-Martinez, F. Martinez-Perez, J. Solano-Jimenez, J.M. Cámarra-Zaputa EROM IN-PERSON TO ONLINE LESSONS: A STUDY [M. Brotons-Martinez, CASE USING MOOCS FOR EFL/ESP TEACHING IN A DISTANCE MODE: A CASE OF A RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC A. Gerashchenko PROJECT WORK IN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING 1. Staposhniko, A. Egoroza, D. Romanoz, A. Gerashchenko USING THE RACITCES OF INQURY IN THE CLASSROOM: BELIEFS, DIFFICULTIES AND FORMARD, O. Gordienko, A. Egoroza, D. Romanoz, A. Gerashchenko USING THE RACITCES OF INQURY IN THE CLASSROOM: BELIEFS, DIFFICULTIES A. Kulninskaga EFFECTIVENESS OF A NEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE [BARERER TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH A. Sofus, C. Pierrakas USING THEOROLOGY SELF-ASSESSMENT T. Sofus, C. Pierrakas USING THENDLOGY SELF-ASSESSMENT T. Sofus, C. Pierrakas USING THENDLOGY SELF-ASSESSMENT T. Sofus, C. Pierrakas HEADY STUDIES		
DEVELOPMENT OF THE SUSTAINABLE DEVELOPMENT GOAL (SDG) OF "REDUCE INEQUALITY BETWEEN COUNTRIES" IN THE UNIVERSITY COURSE OF "ENTERPRISE" V. Guerola-Navarro, R. Oltra-Badenes, H. Gil-Gomez APPLICATION OF THE ATOMIC BUNKER GAME IN THE DEVELOPMENT OF THE SDG ("COORDINATION MECHANISMS FOR INCLUDING GENDER PERSPECTIVES" IN THE SUBJECT OF "ORGANIZATIONAL BEHAVIOR AND CHANGE MANAGEMENT" V. Guerola-Navarro, R. Oltra-Badenes, H. Gil-Gomez THE ROLE OF HIGHER EDUCATION INSTITUTES IN PUBLIC SECTOR INNOVATION ECOSYSTEMS 5. Luojus, S. Aupptinen APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS ASSESSMENT IN AN ENGINEERING PHYSICS COURSE DUE TO COVID-19 J.M. Brotons-Martinez, F. R. Martinez-Perez, J. Solano-Jimenez, J.M. Gimara-Zapata FROM IN-PERSON TO ONLINE LESSONS: A STUDY & Agertachenko USING MOOCS FOR EFL/ESP TEACHING IN A DISTANCE MODE: A CASE OF A RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC A. Gerashchenko PROJECT WORK IN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING T. Shaposhnikova, O. Gordienko, A. Egorona, D. Romanov, A. Gerashchenko USING THE PRACTICES OF INQURY IN THE CLASSROOM: BELIEPS, DIFFICULTIES AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS G. DE Rossi, M. Cardi, O. Fantano BARRIERS TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH CARABILITIES A. Kalminskaga EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE 1835 TOWARDS TECHNOLOGY SELF-ASSESSMENT T. Sofias, C. Pierrakeas USE OF ARTS-INTEGRATED MULTIMODAL TECHNOLOGY IN THE ENGLISH AS A INVESTICATION AND ACHIEVEMENT A. Mover, H. OVIÁROM TO ENGAGES STUDENT S' SPATIAL HABITS OF MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A. Svensson, K. Grunden, J. G. LASSON INVESTICATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUIDINGS M. Manouchehri, M. Valiente Lope	A.C.C. Noronha, B.F. Paulo, L.J. Pimont, I.M. Gomes, C.A. Martins, M.M. Silva, L. Ribeiro Santos, L.K. Teles, F.A. Pereira, S.S.D. Custódio, I. de Oliveira Zeli, I.B. Henriques, K.D. Fook, M.M.S. Matsumoto,	1769
<ul> <li>"COORDINATION MECHANISMS FOR INCLUDING GENDER PERSPECTIVES" IN THE SUBJECT OF 'ORGANIZATIONAL BEHAVIOR AND CHANGE MANAGEMENT'</li> <li>V. Guerola-Navarro, R. Oltra-Badenes, H. Gil-Gomez</li> <li>THE ROLE OF HIGHER EDUCATION INSTITUTES IN PUBLIC SECTOR INNOVATION 1788</li> <li>ECOSYSTEMS</li> <li>S. Luojus, S. Kauppinen</li> <li>APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS 1795</li> <li>ASSESSMENT IN AN ENGINEERING PHYSICS COURSE DUE TO COVID-19</li> <li>J.M. Brotons-Martínez, F. Martínez-Perez, J. Solano-Jimenez, J.M. Cámara-Zapata</li> <li>FROM IN-PERSON TO ONLINE LESSONS: A STUDY 1804</li> <li>W. Bortons-Martínez, Osola</li> <li>USING MOOCS FOR EFL/ESP TEACHING IN A DISTANCE MODE: A CASE OF A 1810</li> <li>RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC</li> <li>A. Gerashchenko</li> <li>PROJECT WORK IN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING 1815</li> <li>T. Shaposhnikova, O. Gordienko, A. Egorova, D. Romanov, A. Gerashchenko</li> <li>USING THE PRACTICES OF INQUIRY IN THE CLASSROOM: BELIEFS, DIFFICULTIES 1819</li> <li>AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS</li> <li>G. DE ROSSI, M. Carli, O. Pantano</li> <li>BARRIERS TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH 1829</li> <li>CAPABILITIES</li> <li>A. Kulminskaya</li> <li>EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE 1835</li> <li>TOWARDS TECHNOLOGY SUEL-ASSESSMENT</li> <li>T. Sofina, C. Pierrakas</li> <li>USE OF ARTS-INTEGRATED MULTIMODAL TECHNOLOGY IN THE ENGLISH AS A 1841</li> <li>FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND ENHANCE MOTIVATION AND ACHIEVEMENT</li> <li>Abore, H. VOÑKOM</li> <li>EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF 1848</li> <li>MIND SELF-ASSESSMENT</li> <li>T. Sofina, C. Pierrakas</li> <li>RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A SCUENCE HAVENTA</li> <li>Aborne, H. VOÑKOM</li></ul>	DEVELOPMENT OF THE SUSTAINABLE DEVELOPMENT GOAL (SDG) OF "REDUCE INEQUALITY BETWEEN COUNTRIES" IN THE UNIVERSITY COURSE OF "ENTERPRISE"	1776
ECOSYSTEMS       S. Luojus, S. Kauppinen         APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS       1795         ASSESSMENT IN AN ENGINEERING PHYSICS COURSE DUE TO COVID-19       1795         J.M. Brotons-Martínez, F. Martínez-Perez, J. Solano-Jimenez, J.M. Cámara-Zapata       1804         FROM IN-PERSON TO ONLINE LESSONS: A STUDY       1804         E. Martínez-Martín, A. Costa       1810         VISING MOOCS FOR EFL/ESP TEACHING IN A DISTANCE MODE: A CASE OF A RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC A. Gerashchenko       1810         PROJECT WORK IN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING T. Shaposhnikoza, O. Gordienko, A. Egoroza, D. Romanou, A. Gerashchenko       1815         USING THE PRACTICES OF INQUIRY IN THE CLASSROOM: BELIEFS, DIFFICULTIES AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS G. De Rossi, M. Carli, O. Pantano       1819         AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS G. De Rossi, M. Carli, O. Pantano       1829         A. Kalminskaya       2         EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE TOWARDS TECHNOLOGY SELF-ASSESSMENT T. Sofias, C. Pierrakaus       1835         USE OF ARTS-INTEGRATED MULTIMODAL TECHNOLOGY IN THE ENGLISH AS A FORTIGH LANGUAGE CLASSROOM TO ENGLEGE STUDENT CREATIVITY AND ENHANCE HOTIVATION AND ACHIEVEMENT A. Moore, H. VOÑKOM       1841         EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT T. Sofias, C. Pierrakaus       184	"COORDINATION MECHANISMS FOR INCLUDING GENDER PERSPECTIVES" IN THE SUBJECT OF "ORGANIZATIONAL BEHAVIOR AND CHANGE MANAGEMENT"	1782
APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS ASSESSMENT IN AN ENGINEERING PHYSICS COURSE DUE TO COVID-19 J.M. Brotons-Martínez, F. Martínez-Perez, J. Solano-Jimenez, J.M. Cámara-Zapata1795 ASSESSMENT IN AN ENGINEERING PHYSICS COURSE DUE TO COVID-19 J.M. Cámara-Zapata1804FROM IN-PERSON TO ONLINE LESSONS: A STUDY1804E. Martínez-Martín, A. Costa1804USING MOOCS FOR EFL/ESP TEACHING IN A DISTANCE MODE: A CASE OF A RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC A. Gerashchenko1810PROJECT WORK IN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING T. Shaposhnikova, O. Gordienko, A. Egorova, D. Romanov, A. Gerashchenko1815USING THE PRACTICES OF INQUIRY IN THE CLASSROOM: BELIEFS, DIFFICULTIES AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS G. De Rossi, M. Carli, O. Pantano1819BARRIERS TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH CAPABILITIES A. Kulminskaya1829EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE TOWARDS TECHNOLOGY SELF-ASSESSMENT T. Sofias, C. Pierrakeas1841EVENCULATION AND ACHIEVEMENT A. Moore, H. Vorikovoł1841FEFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas1842RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A. Sconsson, K. Grundén, L.G. Larsson1854NOVESTIGATING THE ENVRINGNMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS M. Manoucheri, M. Valiente Lopez, J. Sontiago López1861NUESTIGATING THE ENVRINGNMENTAL AND SOCIA-CULTURAL EFFECTS OF NUESTIGATING THE ENVRONMENTAL AND SOCIA-CUL	ECOSYSTEMS	1788
E. Martinez-Martin, A. Costa       USING MOOCS FOR EFL/ESP TEACHING IN A DISTANCE MODE: A CASE OF A       1810         RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC       A. Gerashchenko       1815         PROJECT WORK IN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING       1815         T. Shaposhnikova, O. Gordienko, A. Egorova, D. Romanov, A. Gerashchenko       1819         USING THE PRACTICES OF INQUIRY IN THE CLASSROOM: BELIEFS, DIFFICULTIES       1819         AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS       1829         C. De Rossi, M. Carli, O. Pantano       1829         BARRIERS TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH       1829         CAPABILITIES       A kulminskaya         EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE       1835         TOWARDS TECHNOLOGY SELF-ASSESSMENT       1841         FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND ENHANCE MOTIVATION AND ACHIEVEMENT       1841         POREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT       1848         T. Sofias, C. Pierrakeas       1841         POREIGN LANGUAGE CLASSROM TO ENGAGE STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT       1848         A. Soensson, K. Grundén, L.G. Larsson       1854         A. Soensson, K. Grundén, L.G. Larsson       1854         M. Manouchehri, M. Valiente Lopez, J. Santiago López	APPLICATION OF ORDERED WEIGHTED AVERAGE TO ADAPT CONTINUOUS ASSESSMENT IN AN ENGINEERING PHYSICS COURSE DUE TO COVID-19	1795
RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC       A. Gerashchenko         PROJECT WORK IN TECHNOLOGY PARK AS FORM OF COFIGURATIVE LEARNING       1815         T. Shaposhnikoza, O. Gordienko, A. Egoroza, D. Romanoz, A. Gerashchenko       1815         USING THE PRACTICES OF INQUIRY IN THE CLASSROOM: BELIEFS, DIFFICULTIES       1819         AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS       6. De Rossi, M. Carli, O. Pantano         BARRIERS TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH       1829         CAPABILITIES       A. Kulminskaya         EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE       1835         TOWARDS TECHNOLOGY SELF-ASSESSMENT       1843         FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND       1841         FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND       1841         FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND       1844         FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT S' SPATIAL HABITS OF       1848         MIND SELF-ASSESSMENT       1848         A. Svensson, K. Grundén, L.G. Larsson       1854         INVESTIGATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF       1861         VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS       1861         M. Manouchehri, M. Valiente Lopez, J. Santiago López       1861		1804
T. Shaposhnikova, O. Gordienko, A. Egorova, D. Romanov, A. Gerashchenko USING THE PRACTICES OF INQUIRY IN THE CLASSROOM: BELIEFS, DIFFICULTIES AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS G. De Rossi, M. Carli, O. Pantano BARRIERS TO EDUCATION SUCCESS IN STUDENTS WITH SPECIAL HEALTH CAPABILITIES A. Kulminskaya EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE TOWARDS TECHNOLOGY SELF-ASSESSMENT T. Sofias, C. Pierrakeas USE OF ARTS-INTEGRATED MULTIMODAL TECHNOLOGY IN THE ENGLISH AS A FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND ENHANCE MOTIVATION AND ACHIEVEMENT A. Moore, H. Voňková EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A. Soensson, K. Grundén, L.G. Larsson INVESTIGATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS M. Manouchehri, M. Valiente Lopez, J. Santiago López LOCKDOWN AND GLOBALIZATION, THE PARADOX OF THE XXI CENTURY (SOCIAL MEDIA: NEW EXPRESSION SOF EDUCATION) N. León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL MICROPROJECT DO MATHEMATICS AND SCIENCE EDUCATION M.J. Espigares-Gámez, A. Fernándaez-Oliveras, M.L. Oliveras INSTRUMENT FOR THE EDUCATIONAL ANALYSIS OF SCIENCE TEXTBOOKS OF 1882	RUSSIAN TECHNOLOGICAL UNIVERSITY DURING COVID-19 PANDEMIC	1810
AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERSImage: Carlow and the second and the sec		1815
CAPABILITIES A. Kulminskaya1835EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' ATTITUDE TOWARDS TECHNOLOGY SELF-ASSESSMENT T. Sofias, C. Pierrakeas1835USE OF ARTS-INTEGRATED MULTIMODAL TECHNOLOGY IN THE ENGLISH AS A FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND ENHANCE MOTIVATION AND ACHIEVEMENT A. Moore, H. Voňková1841EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas1848RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A. Svensson, K. Grundén, L.G. Larsson1854INVESTIGATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NO-ACADEMIC BUILDINGS M. Manouchehri, M. Valiente Lopez, J. Santiago López1861LOCKDOWN AND GLOBALIZATION, THE PARADOX OF THE XXI CENTURY (SOCIAL N León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras1876ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL MICROPROJECT DTO MATHEMATICS AND SCIENCE EDUCATION M.J. Espigares-Gámez, A. Fernández-Oliveras, M.L. Oliveras1876	AND FORMATIVE NEEDS OF PRIMARY SCHOOL TEACHERS	1819
TOWARDS TECHNOLOGY SELF-ASSESSMENTIsolastic contractionT. Sofias, C. PierrakeasUSE OF ARTS-INTEGRATED MULTIMODAL TECHNOLOGY IN THE ENGLISH AS AFOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND ENHANCE MOTIVATION AND ACHIEVEMENT1841A. Moore, H. VoñkováEFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF1848MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas1843RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS1854A. Svensson, K. Grundén, L.G. Larsson1854INVESTIGATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS M. Manouchehri, M. Valiente Lopez, J. Santiago López1861LOCKDOWN AND GLOBALIZATION, THE PARADOX OF THE XXI CENTURY (SOCIAL MEDIA: NEW EXPRESSIONS OF EDUCATION) N. León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras1876ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL MIJ. Espigares-Gámez, A. Fernández-Oliveras, M.L. Oliveras1870INSTRUMENT FOR THE EDUCATIONAL ANALYSIS OF SCIENCE TEXTBOOKS OF1882	CAPABILITIES	1829
FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND ENHANCE MOTIVATION AND ACHIEVEMENT A. Moore, H. Voňková1848EFFECTIVENESS OF A WEBGIS-BASED PROJECT ON STUDENTS' SPATIAL HABITS OF MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas1848RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A. Svensson, K. Grundén, L.G. Larsson1854INVESTIGATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS M. Manouchehri, M. Valiente Lopez, J. Santiago López1861LOCKDOWN AND GLOBALIZATION, THE PARADOX OF THE XXI CENTURY (SOCIAL MEDIA: NEW EXPRESSIONS OF EDUCATION) N. León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras1876ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL MICROPROJECT DEVOTED TO MATHEMATICS AND SCIENCE EDUCATION M.J. Espigares-Gámez, A. Fernández-Oliveras, M.L. Oliveras1822	TOWARDS TECHNOLOGY SELF-ASSESSMENT	1835
MIND SELF-ASSESSMENT T. Sofias, C. Pierrakeas1854RESISTANCE TO CHANGES AND LEARNING IN SOCIAL CARE ORGANIZATIONS A. Svensson, K. Grundén, L.G. Larsson1854INVESTIGATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS M. Manouchehri, M. Valiente Lopez, J. Santiago López1861LOCKDOWN AND GLOBALIZATION, THE PARADOX OF THE XXI CENTURY (SOCIAL MEDIA: NEW EXPRESSIONS OF EDUCATION) N. León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras1869ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL MIJ. Espigares-Gámez, A. Fernández-Oliveras, M.L. Oliveras1876INSTRUMENT FOR THE EDUCATIONAL ANALYSIS OF SCIENCE TEXTBOOKS OF 18821882	FOREIGN LANGUAGE CLASSROOM TO ENGAGE STUDENT CREATIVITY AND ENHANCE MOTIVATION AND ACHIEVEMENT	1841
<ul> <li>A. Svensson, K. Grundén, L.G. Larsson</li> <li>INVESTIGATING THE ENVIRONMENTAL AND SOCIO-CULTURAL EFFECTS OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS</li> <li>M. Manouchehri, M. Valiente Lopez, J. Santiago López</li> <li>LOCKDOWN AND GLOBALIZATION, THE PARADOX OF THE XXI CENTURY (SOCIAL MEDIA: NEW EXPRESSIONS OF EDUCATION)</li> <li>N. León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras</li> <li>ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL MICROPROJECT DEVOTED TO MATHEMATICS AND SCIENCE EDUCATION</li> <li>M.J. Espigares-Gámez, A. Fernández-Oliveras, M.L. Oliveras</li> <li>INSTRUMENT FOR THE EDUCATIONAL ANALYSIS OF SCIENCE TEXTBOOKS OF</li> <li>1882</li> </ul>	MIND SELF-ASSESSMENT	1848
VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS M. Manouchehri, M. Valiente Lopez, J. Santiago López1869LOCKDOWN AND GLOBALIZATION, THE PARADOX OF THE XXI CENTURY (SOCIAL MEDIA: NEW EXPRESSIONS OF EDUCATION) N. León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras1869ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL MICROPROJECT DEVOTED TO MATHEMATICS AND SCIENCE EDUCATION M.J. Espigares-Gámez, A. Fernández-Oliveras, M.L. Oliveras1876INSTRUMENT FOR THE EDUCATIONAL ANALYSIS OF SCIENCE TEXTBOOKS OF1882		1854
MEDIA: NEW EXPRESSIONS OF EDUCATION)N. León-Martínez, M. Valiente Lopez, M.C. Sanz Contreras1876ANTHROPOLOGICAL AND ANALYTICAL STUDIES FOR THE DESIGN OF A PLAYFUL1876MICROPROJECT DEVOTED TO MATHEMATICS AND SCIENCE EDUCATION1876M.J. Espigares-Gámez, A. Fernández-Oliveras, M.L. Oliveras1876INSTRUMENT FOR THE EDUCATIONAL ANALYSIS OF SCIENCE TEXTBOOKS OF1882	VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY IN ACADEMIC AND NON-ACADEMIC BUILDINGS	1861
MICROPROJECT DEVOTED TO MATHEMATICS AND SCIENCE EDUCATIONM.J. Espigares-Gámez, A. Fernández-Oliveras, M.L. OliverasINSTRUMENT FOR THE EDUCATIONAL ANALYSIS OF SCIENCE TEXTBOOKS OF1882	MEDIA: NEW EXPRESSIONS OF EDUCATION)	1869
	MICROPROJECT DEVOTED TO MATHEMATICS AND SCIENCE EDUCATION	1876
A. Fernández-Oliveras, C. Martín-Gámez, F. García-Pardo	SECONDARY EDUCATION FROM A GENDER PERSPECTIVE	1882

xviii

EXPERIMENTAL METHODOLOGY FOR RESEARCH OF MUSEUM EDUCATIONAL PROGRAMS S. Spasova, A. Stanimirov, A. Kolev, R. Krasteva	1888
SOCIAL NETWORKS AND EDUCATIONAL PROGRAMS OF CULTURAL INSTITUTIONS IN BULGARIA – GOOD EXAMPLES IN THE CONDITIONS OF LOCKDOWN S. Dimitrova, S. Spasova, S. Dusheva, P. Gindev	1896
USING DIGITAL LEARNING PLATFORMS FOR UNIVERSITY STUDENTS STUDYING ENGLISH IN LOCKDOWN D. Zhdanov, P. Baklanov	1903
<b>FACILITATION IN ENGLISH LEARNING GROUP AFFILIATION</b> P. Baklanov, D. Zhdanov	1911
INTERDISCIPLINARITY IN HIGHER EDUCATION: IMPROVING THE TEACHING- LEARNING PROCESS THROUGH COLLABORATION BETWEEN SUBJECTS A. Puig-Denia, M. Boronat-Navarro, B. Forés, J.M. Fernández-Yáñez	1919
A METHODOLOGICAL AND EVALUATION PROPOSAL FOR TEACHING INFORMATION SYSTEMS IN COVID-19 PANDEMIC B. Forés, M. Boronat-Navarro, A. Puig-Denia, J.M. Fernández-Yáñez	1925
<b>RESILIENCE OF PARENTS BRINGING UP CHIDREN WITH DISABILITIES</b> E. Zezulková, K. Janků	1934
ONLINE MATH COURSES: ADVANTAGES AND OBSTACLES IN AN INFORMATICS BACCALAUREATE L. Babo, J.M. Mendonça, C. Pinto	1945
THE QUALITY OF REMOTE LEARNING DURING COVID-19 PANDEMIC FROM THE PERSPECTIVE OF STUDENTS AT THE UNIVERSITIES IN SLOVAKIA M. Strenitzerova, K. Stalmachova	1954
POSSIBILITIES OF USING MACHINE LEARNING IN THE MOTIVATION PROCESS OF UNIVERSITY TEACHERS M. Strenitzerová, K. Stalmachová	1964
TRADITIONAL, SIMULATED OR TAKE-HOME? A COMPARATIVE ASSESSMENT OF THE STUDENT EXPERIENCE OF VARIOUS MODES OF LABORATORY DELIVERY BEFORE AND DURING THE COVID-19 PANDEMIC M. Hill, T. O'Mahony, J. Horan, J. Harrington	1974
DESIGN OF THE CONCEPT OF DISTANCE LEARNING OF ELECTRICAL ENGINEERING SUBJECTS USING MATLAB AND SIMULINK SIMULATION TOOLS M. Trojanová, A. Hošovský, S. Hrehová, L. Knapčíková, J. Husár	1984
<b>EXPERIENCE WITH ONLINE TEACHING OF SELECTED APPLICATION SOFTWARE</b> S. Hrehová, M. Trojanová, L. Knapčíková, J. Husár	1994
THE RELATIONSHIP BETWEEN RESEARCH AND TEACHING: PERSPECTIVES AND WAYS OF REALIZATION	1999
M. Trencheva, M. Traykov, I. Ivanov, A. Kirkov EXPERIENTIAL FUNCTIONS IN CHINESE EDUCATORS' MEALTIME TALK WITH INFANTS IN CHILDCARE CENTRES J. Hu, J. Yuan, L. Sheng, X. Zeng	2007
CAN A DIGITAL QUESTIONNAIRE FOR ADOLESCENTS DEVELOP SCHOOL DEMOCRACY AND WELL-BEING? A. Azbel, L. Ilyushin, E. Samoilova	2014
MOBILITY IN THE TIME OF CORONA M. Laamanen, L. Kallio	2024
<b>ROLE-PLAYING GAME AS AN INTERACTIVE METHOD OF "EVENT</b> <b>COMMUNICATION" LEARNING IN HIGHER EDUCATION INSTITUTIONS</b> N. Bilan, M. Netreba	2025
REMOTE COLLABORATIVE LEARNING IN THE DEGREES OF AGRICULTURAL ENGINEERING THROUGH THE IMPLEMENTATION OF SCRIPTS FOR IRRIGATION DESIGN P. Martí, A. Román, J. Cifre, J. Rosselló, F. Sanfelix	2033
<b>STUDENTS' CONTRIBUTION TO THE SCIENCE LEARNING PROCESS</b> <i>F. Sanfelix, P. Martí, M. Puigcerver</i>	2042
<b>MOTIVATING LEARNING BIOCHEMISTRY IN BIOMEDICAL DEGREES</b> M.J. Alvarez Cubero, M.A. Garcia Chaves, M.I. Rodríguez, P. Sánchez, V. Sánchez-Martín, M. Cuadros, L.J. Martinez Gonzalez	2048

TEACHING IN THE MULTI-LEVEL BIOCHEMISTRY STUDENTS2053M.I. Rodríguez, P. Sánchez, V. Sánchez-Martín, L.J. Martínez González, M.A. García-Chaves, M.J. Alvarez Cubero, M. Cuadros2057PROJECT BASED LEARNING IN PRIMARY EDUCATION DEGREE: AN ANALYSIS OF THE AFFECTIVE DIMENSION2057M. Hernández Del Barco, I. Corbacho-Cuello, J. Sánchez-Martín, F. Cañada-Cañada2058SCIENCE POPULARIZATION AND PUBLIC OUTREACH ACTIVITIES2058K. Sarcevic lvić Hofman, A. Vukasinovic2066APPLICATION OF THE FLIPPED CLASSROOM AND USE OF ICT AS AN INNOVATIVE M. Jimenez Rodriguez, J.M. Alvarado Izquierdo, P.J. Calaforra Faubel, A. Castillo Charfolet2075ACADEMIC PERFORMANCE IN RELATION TO EMOTIONAL INTELLIGENCE: EMOTIONAL PERCEPTION AND MUSICAL SENSITIVITY2075M. García-Rodríguez, V. Jiménez Rodríguez, A. Ivanova Iotova, J.F. Fernández-Company, J.M. Alvarado Izquierdo2083PERCEPTIONS OF PORTUGUESE SOCIAL WORK STUDENTS ABOUT THE EFFECTS OF TEACHING/LEARNING PROCESS2083P. Ferreira, N. Ramalho2090PROJECT MANAGEMENT EDUCATION FOR NOVICE TEACHERS TO PRODUCE RESULTS IN PROJECT-BASED LEARNING CLASSES2090T. Yokemura2010DIGITAL PLATFORMS-INFUSING COGNITIVE SKILLS AND LANGUAGE COMPETENCES IN FOREIGN LANGUAGE CLASSROOM2100J. Laffita Rivera2100
THE AFFECTIVE DIMENSIONM. Hernández Del Barco, I. Corbacho-Cuello, J. Sánchez-Martín, F. Cañada-CañadaSCIENCE POPULARIZATION AND PUBLIC OUTREACH ACTIVITIES2058K. Sarcevic Ivić Hofman, A. Vukasinovic2068APPLICATION OF THE FLIPPED CLASSROOM AND USE OF ICT AS AN INNOVATIVE2066METHODOLOGY IN HIGHER EDUCATION2066V. Jimenez Rodriguez, J.M. Alvarado Izquierdo, P.J. Calaforra Faubel, A. Castillo Charfolet2075ACADEMIC PERFORMANCE IN RELATION TO EMOTIONAL INTELLIGENCE:2075EMOTIONAL PERCEPTION AND MUSICAL SENSITIVITY2066M. García-Rodríguez, V. Jiménez Rodríguez, A. Ivanova Iotova, J.F. Fernández-Company, J.M. Alvarado2075Izquierdo2083PERCEPTIONS OF PORTUGUESE SOCIAL WORK STUDENTS ABOUT THE EFFECTS OF TEACHING/LEARNING PROCESS2083P. Ferreira, N. Ramalho2090PROJECT MANAGEMENT EDUCATION FOR NOVICE TEACHERS TO PRODUCE RESULTS IN PROJECT-BASED LEARNING CLASSES2090T. Yokemura2010DIGITAL PLATFORMS-INFUSING COGNITIVE SKILLS AND LANGUAGE COMPETENCES IN FOREIGN LANGUAGE CLASSROOM2100
SCIENCE POPULARIZATION AND PUBLIC OUTREACH ACTIVITIES2058K. Sarcevic Ivić Hofman, A. Vukasinovic2066APPLICATION OF THE FLIPPED CLASSROOM AND USE OF ICT AS AN INNOVATIVE2066METHODOLOGY IN HIGHER EDUCATION2075V. Jimenez Rodriguez, J.M. Alvarado Izquierdo, P.J. Calaforra Faubel, A. Castillo Charfolet2075ACADEMIC PERFORMANCE IN RELATION TO EMOTIONAL INTELLIGENCE:2075EMOTIONAL PERCEPTION AND MUSICAL SENSITIVITY2083M. García-Rodríguez, V. Jiménez Rodríguez, A. Ivanova Iotova, J.F. Fernández-Company, J.M. Alvarado2083IzquierdoPERCEPTIONS OF PORTUGUESE SOCIAL WORK STUDENTS ABOUT THE EFFECTS OF THE CONFINEMENT PERIOD FROM COVID-19 PANDEMIC ON THE TEACHING/LEARNING PROCESS2083P. Ferreira, N. RamalhoPROJECT MANAGEMENT EDUCATION FOR NOVICE TEACHERS TO PRODUCE RESULTS IN PROJECT-BASED LEARNING CLASSES T. Yokemura2090DIGITAL PLATFORMS-INFUSING COGNITIVE SKILLS AND LANGUAGE COMPETENCES IN FOREIGN LANGUAGE CLASSROOM2100
METHODOLOGY IN HIGHER EDUCATIONV. Jimenez Rodriguez, J.M. Alvarado Izquierdo, P.J. Calaforra Faubel, A. Castillo CharfoletACADEMIC PERFORMANCE IN RELATION TO EMOTIONAL INTELLIGENCE:2075EMOTIONAL PERCEPTION AND MUSICAL SENSITIVITY2075M. García-Rodríguez, V. Jiménez Rodríguez, A. Ivanova Iotova, J.F. Fernández-Company, J.M. Alvarado2083Izquierdo2083PERCEPTIONS OF PORTUGUESE SOCIAL WORK STUDENTS ABOUT THE EFFECTS OF THE CONFINEMENT PERIOD FROM COVID-19 PANDEMIC ON THE TEACHING/LEARNING PROCESS P. Ferreira, N. Ramalho2080PROJECT MANAGEMENT EDUCATION FOR NOVICE TEACHERS TO PRODUCE RESULTS IN PROJECT-BASED LEARNING CLASSES T. Yokemura2090DIGITAL PLATFORMS-INFUSING COGNITIVE SKILLS AND LANGUAGE COMPETENCES IN FOREIGN LANGUAGE CLASSROOM2100
EMOTIONAL PERCEPTION AND MUSICAL SENSITIVITYM. García-Rodríguez, V. Jiménez Rodríguez, A. Ivanova Iotova, J.F. Fernández-Company, J.M. Alvarado Izquierdo2083PERCEPTIONS OF PORTUGUESE SOCIAL WORK STUDENTS ABOUT THE EFFECTS OF THE CONFINEMENT PERIOD FROM COVID-19 PANDEMIC ON THE TEACHING/LEARNING PROCESS P. Ferreira, N. Ramalho2083PROJECT MANAGEMENT EDUCATION FOR NOVICE TEACHERS TO PRODUCE RESULTS IN PROJECT-BASED LEARNING CLASSES T. Yokemura2090DIGITAL PLATFORMS-INFUSING COGNITIVE SKILLS AND LANGUAGE COMPETENCES IN FOREIGN LANGUAGE CLASSROOM2100
THE CONFINEMENT PERIOD FROM COVID-19 PANDEMIC ON THE         TEACHING/LEARNING PROCESS         P. Ferreira, N. Ramalho         PROJECT MANAGEMENT EDUCATION FOR NOVICE TEACHERS TO PRODUCE         2090         RESULTS IN PROJECT-BASED LEARNING CLASSES         T. Yokemura         DIGITAL PLATFORMS-INFUSING COGNITIVE SKILLS AND LANGUAGE       2100         COMPETENCES IN FOREIGN LANGUAGE CLASSROOM
RESULTS IN PROJECT-BASED LEARNING CLASSES T. Yokemura DIGITAL PLATFORMS-INFUSING COGNITIVE SKILLS AND LANGUAGE 2100 COMPETENCES IN FOREIGN LANGUAGE CLASSROOM
COMPETENCES IN FOREIGN LANGUAGE CLASSROOM
WHAT CAN COVID-19 REMOTE LEARNING TEACH US FOR FUTURE REGULAR FACE-2108TO-FACE TEACHING OF GEOLOGICAL MAPPING2108M.B. Muñoz-García, J.I. Santisteban2108
HOW TO IMPLEMENT EDUCATIONAL ACTIVITIES AT THE UNIVERSITY OF THE2118THIRD AGE DURING A PANDEMIC COVID-19 WITH THE HELP OF INFORMATION2118TECHNOLOGYP. Adamec, L. Kamanová
THE ROLE OF E-LEARNING SYSTEMS IN MEDICAL EDUCATION DURING THE2124COVID-19 PANDEMIC- PILOT STUDYS. Al-Dahery, S. Alashmali
<b>E-LEARNING SKILLS DEVELOPMENT IN THE ENGLISH LANGUAGE CLASSES</b> 2132 A. Zhuchenko
FUNDAMENTALS OF TRANSLATION AS AN IMPORTANT PART OF A RUSSIAN       2138         LANGUAGE COURSE IN THE CONTEXT OF IN-CLASS AND DISTANT LEARNING       2138         O.A. Sveshnikova, V.V. Antonova, L.P. Yarkina, M.A. Karelova       2138
<b>SELF-DETERMINED LEARNER MOTIVATION EVALUATION IN DISTANCE LEARNING</b> 2143 <b>CONTEXT USING WEB 2.0 TOOLS, DURING THE COVID-19 PANDEMIC PERIOD</b> <i>H. Akhasbi, N. Belghini, B. Riyami</i>
DISTANCE LEARNING REVEALS THE NECESSITY OF ARTIFICIAL INTELLIGENCE 2152 SOLUTIONS FOR ACCELERATED LEARNING OF MATHEMATICS A. Cunska
<b>TEACHING AUTOMATIC CONTROL IN ENGINEERING DEGREES IN THE COVID-19</b> 2161 <b>ERA: SIMULATORS BASED ON PHYSICAL MODELING TOOLS AS ALTERNATIVE</b> 2161         J.E. Traver, C. Nuevo-Gallardo, P. Rodríguez, I. Tejado, E. Pérez, B.M. Vinagre       2161
<b>DESIGN OF AN ESCAPE ROOM TO SUPPORT LEARNING OF INDUSTRIAL PROCESS</b> 2171 <b>CONTROL IN ENGINEERING DEGREES</b> 1. Tejado, E. Pérez, J.E. Traver, C. Nuevo-Gallardo, P. Rodríguez, B.M. Vinagre
BETTERGEOEDU: THE USE OF MINECRAFT AS AN INTERACTIVE TOOL TO 2181 FACILITATE THE KNOWLEDGE ON ROCKS AND MINERALS IN PRIMARY SCHOOL STUDENTS
J.L. Costafreda Mustelier, C. Peña Narciso, J. Herrera Herbert, P. Westrin, F.P. Luque, L. Piovano         ATTENDANCE MANAGEMENT SYSTEM USING FACE RECOGNITION AND DEEP         LEARNING

F. Marenčić, Z. Stapić, P. Grd

PROFESSIONAL DEVELOPMENT SELF-ASSESSMENT OF PARTICIPANTS OF EDUCATIONAL PROJECT "TEACHING FORCE" IN THE CONTEXT OF ENTREPRENEURIAL SKILLS A. Slišāne, O. Kaulēns	2202
SOCIAL PORTRAIT OF AN UNSUCCESSFUL STUDENT N. Shabrova	2211
POPULARIZATION OF EDUCATION AMONG THE OLDER GENERATION OF RUSSIANS N. Shabrova	2217
<b>TEACHING ROBOT PLANNERS USING A PRACTICAL APPROACH</b> A. Mora Velasco, R. Sánchez, R. Barber	2222
<b>USE OF MODERN SIMULATION TECHNOLOGIES IN PREPARATION FOR CRISIS</b> <b>MANAGEMENT</b> <i>K. Tomanová, M. Smetana, Š. Kavan</i>	2231
FACTORS (BARRIERS) INFLUENCING BUILDING COMMUNITY RESILIENCE E. Polcarová, M. Smetana	2241
A SET OF THEORETICAL ASSUMPTIONS FOR EVALUATION AND REDESIGN OF TEACHER TRAINING COURSES ON PROGRAMMING P. Mozelius	2249
ON THE INFLUENCE OF HIGHER LANGUAGE EDUCATION ON THE DEVELOPMENT OF PSYCHOLOGICAL MATURITY AMONG STUDENTS OF TEACHER-TRAINING UNIVERSITIES	2258
A. Dzyubenko, I. Katsitadze, N. Khristianova DEVELOPMENT OF ATTENTION AND EXECUTIVE FUNCTIONS IN PUPILS WITH ADHD P. Jedličková, A. Klimentová	2265
EDUCATIONAL MOTIVATION AMONG UNIVERSITY 1ST YEAR STUDENTS DURING FORCED DISTANCE LEARNING O.S. Vindeker	2271
AN OBSERVATIONAL AND REFLECTIVE ANALYSIS ON THE IMPACT OF LEARNING PROGRESS, COMMUNICATION AND ASSESSMENT FEEDBACK FOR UNDERGRADUATE STUDENTS IN THE 'TIME OF CRISIS' M. Ahmad	2277
INFORMATION TECHNOLOGIES FOR FORMING THE COGNITIVE INDEPENDENCE OF FUTURE BACHELORS OF COMPUTER SCIENCE AND MANAGEMENT IN TEACHING LINEAR PROGRAMMING E. Sukhovienko, N. Muravyova	2287
TECHNOLOGY ASSISTED CREATIVE PROJECTS: MAXIMIZING UNIVERSITY STUDENTS' PARTICIPATION IN FOREIGN LANGUAGE LEARNING E. Baguzina	2293
FACTORS OF GLOBAL DIGITAL TRANSFORMATION OF EDUCATION: INFLUENCE ON VALUE ORIENTATIONS FORMATION AMONG YOUNG PEOPLE T. Rezer	2301
IMPROVING TEXT PRODUCTION SKILLS WITH THE HELP OF CLASSROOM NEWSPAPER G. Petres Csizmadia	2306
<b>THE CONTEMPORARY ISSUES OF TEACHING CHILDREN'S POETRY</b> G. Petres Csizmadia	2314
THE EFFECT OF SCIENTIFIC INQUIRY-BASED LEARNING ON THE SCIENTIFIC REASONING ABILITY AND ATTITUDES TOWARD SCIENCE J. Lieskovský, V. Čavojová	2320
MODELLING OF THE HUMANITARIAN LEARNING ENVIRONMENT WITHIN RUSSIAN UNIVERSITIES ON THE BASIS OF NON-FORMAL EDUCATION A. Gazizova, M. Siraeva, V. Panfilova, S. Skopkareva	2327
TECHNOLOGIES FOR SENIOR CITIZENS LEARNING T. Rezer	2335
LEARNER-CENTERED ONLINE COURSE DESIGN TO ENHANCE PRE-SERVICE TEACHERS ACHIEVEMENTS A. Epitropova	2339
TRIVIAL GAME IMPLEMENTATION AS AN ANATOMY LEARNING TOOL IN PHYSICAL THERAPY DEGREE OF UNIVERSITAT DE LLEIDA (UDL) R. Aiguade, B. Roman, C. Teruel, D. Jimenez Hernandez, E. Sempere, J. Casaña, L. Llurda, L. Moure	2344

CHANGE IN TEACHING METHODOLOGY DURING THE PANDEMIC OF A MARINE 23 RENEWABLE ENERGY SUBJECT 23	346
J.S. Lopez-Gutierrez, M.D. Esteban, V. Negro	0 10
IMPLEMENTATION OF LABORATORY ACTIVITIES IN MARITIME ENGINEERING23SUBJECTS23	352
M.D. Esteban, J.S. Lopez-Gutierrez, V. Negro, J.L. Orts <b>PEDAGOGICAL TECHNOLOGY FOR THE FORMATION OF COMMUNICATION SKILLS</b> <b>AMONG STUDENTS WITH DISABILITIES IN UNIVERSITIES BASED ON ACADEMIC</b> <b>INTERACTION</b> S. Meiramova, A. Serikova	360
	365
<b>CREATING A SPACE FOR EARLY CAREER RESEARCHERS: EXPERIENCES FROM A</b> 23 <b>CONGRESS OF YOUNG MARINE SCIENTISTS</b> J. Moreno-Andrés, I. Jerez-Cepa, F. Sánchez-García, M. Pérez-Miguel, M. Simón, C. Garrido-Pérez, J.J.23Vergara, J.I. González-Gordillo, M. Bolado-Penagos23	370
0	375
AN EVALUATION OF ATTITUDES TOWARDS STATISTICS IN SECONDARY 23 EDUCATION STUDENTS A. Peiró-Signes, O. Trull-Dominguez, J.C. García-Díaz, M. Segarra-Oña	382
	387
TAKING ADVANTAGE OF INFORMATION AND COMMUNICATION TECHNOLOGIES23FOR TEACHING AND RAISING AWARENESS IN THE FIGHT AGAINST CRIMINALITY23DURING THE COVID-19 PANDEMIC10L. Kurilovská, T. Hajdukova10	394
THE ROLE OF INFORMATION TECHNOLOGY IN EDUCATION IN THE REALITIES OF24EDUCATIONE. Ivanova, S. Orlova24	403
NOTES ABOUT DIGITAL EDUCATION IN DEMOCRACY AND EDUCATION ABOUT       24         THE EUROPEAN UNION       24         M.M. Magalhães Silva, D. Resende Alves, M.J. Ferreira       24	408
STRUCTURAL AND RESEARCH ASPECTS IN THE DESIGN OF A POSTGRADUATE       24         STUDY PROGRAM IN THE FIELD OF MEDIA AND COMMUNICATION       24         I. Rosanda Žigo, J. Lasić-Lazić, V. Kirinić       24	413
AN ANALYSIS OF WRITING APPREHENSION LEVEL OF ESL UNDERGRADUATE 24 STUDENTS AND THEIR PERCEPTION ON THE USE OF ANALYTICAL WRITING TECHNIQUE FOR ESSAY WRITING N. Ismail, H. Ahmad, S. Elias@Alias, N.S. Khairani, H. Wati, S. Sulaiman	421
	428
	437
	446
	457
	467
	477

CHALLENGES FOR THE DESIGN OF AUGMENTED REALITY APPLICATIONS FOR SCIENCE TEACHER EDUCATION M. Krug, V. Czok, J. Huwer, H. Weitzel, W. Müller	2484
PSYCHOMOTOR THERAPY AS A PART OF COMPREHENSIVE REHABILITATION OF PEOPLE SUFFERING FROM MENTAL ILLNESS H. Kynštová	2492
EDUCATIONAL PROJECT ACTIVITIES BASED ON WEB 2.0 SERVICES (ON THE EXAMPLE OF THE PROJECT "WIKI DICTIONARY") L. Bazarova, E. Gilyazeva, L. Dyachenko, E. Maratkanova, S. Titova	2496
HOW TO LIVE THE DATA WE POSSESS: VISUALIZING AND TEACHING DESIGN FOR THE CIRCULAR ECONOMY L. Morrissey, R. Barban Franceschi, A.M. Ferreira	2504
ANALYSIS OF THE MOTIVES IN CHOOSING MUSIC SCHOOL: ASPECTS OF CHILDREN'S AND PARENTS' EXPERIENCES A. Volbikienė, R. Bubnys	2514
ADAPTATION OF THE COURSE THEORY OF STRUCTURES TO ONLINE TEACHING DUE TO THE COVID-19 PANDEMIC. ANALYSIS AND RESULTS M.H. Fernandes, J.M. Hernandez Vazquez	2520
MANIFESTATION OF TEACHERS' EXPERIENTIAL LEARNING IN DEVELOPING COLLABORATIVE CULTURE IN A PRE-SCHOOL EDUCATIONAL INSTITUTION J. Lenkauskaite, R. Bubnys, E. Fridrikaite	2530
MADRID SCIENCE AND INNOVATION WEEK: VIRTUAL ADAPTATIONS IN GEOLOGICAL OUTREACH ACTIVITIES A. García-Frank, D. Sanz-Pérez, I. Cambronero García-Miguel, O. Fesharaki, A. Acedo Peñato, V. G. Peco	2538
DEVELOPMENT OF COMMUNICATION SKILLS IN A FOREIGN LANGUAGE: THE ROLE OF TEXT J. Ageeva, N. Makrishina	2548
<b>ENGINEERING AND ARCHITECTURE POSTGRADUATE STUDENT'S PERCEPTIONS</b> <b>ON SUSTAINABLE DESIGN</b> <i>I.J. Navarro, A.J. Sánchez-Garrido, V. Yepes</i>	2554
MULTI-CRITERIA DECISION TECHNIQUES IN CIVIL ENGINEERING EDUCATION. COMPARATIVE STUDY APPLIED TO THE SUSTAINABILITY OF STRUCTURES V. Yepes, A.J. Sánchez-Garrido, I.J. Navarro	2564
CONTRIBUTION OF ENTREPRENEURIAL EDUCATION AS A RESPONSE TO THE CHALLENGES OF THE ENVIRONMENT K. Corbett Lagos, A. García Aracil, R. Isusi-Fagoaga	2574
CHALLENGE-BASED LEARNING AND CONCURRENT ENGINEERING IN AEROSPACE ENGINEERING EDUCATION P. Salgado Sánchez, D. López-Fernández, J.J. Fernández, J.M. Ezquerro, J. Rodríguez, J.M. Del Cura, V. Lapuerta	2581
EDUCATIONAL NANOSATELLITES FOR HANDS-ON LEARNING IN AEROSPACE ENGINEERING EDUCATION P. Salgado Sánchez, I. Tinao, J. M. Ezquerro, J.J. Fernández, J. Rodríguez, A. Bello, K. Olfe	2587
ACTIVE LEARNING, THE CHALLENGES OF ENTREPRENEURIAL EDUCATION K. Corbett Lagos, R. Isusi-Fagoaga, A. García Aracil	2597
<b>IDENTIFYING ROTE LEARNING AND THE SUPPORTING EFFECTS OF HINTS IN</b> <b>DRILLS</b> <i>G. Stefansson, A.H. Jonsdottir, T. Jonmundsson, G.S. Sigurdsson, I.L. Bergsdottir</i>	2605
"BOLDNESS AND BEAUTY" FOR THE DESIGN AND DEVELOPMENT OF EFFECTIVE LIGHTWEIGHT DEPARTMENTAL WEBSITES G. Moisiadis, E. Papaioannou	2612
REQUIRED SKILLS AND COMPETENCIES ON THE ADMINISTRATIVE LABOR MARKET P. Schulcz	2622
LABOR MARKET EXPECTATIONS WITHIN THE UNIVERSITY WALLS: OPPORTUNITIES OF PRACTICE-ORIENTED EDUCATION P. Schulcz	2630
EDUCATIONAL PROCESS TRANSFORMATION FOR THE MULTICULTURAL GROUPS OF THE MASTER STUDENTS S. Bekareva, P. Kovalenko, E. Limanova	2637

S. Bekareva, P. Kovalenko, E. Limanova

<b>LEARNING AND EVALUATION WITHOUT ACCESS TO SCHOOLS DURING COVID-19</b> <i>G. Stefansson, A.H. Jonsdottir</i>	2643
<b>THE INFLUENCE OF USING SOCRATIVE FOR LEARNING – A LITERATURE REVIEW</b> <i>I. Bel-Oms, J.R. Segarra-Moliner</i>	2650
STUDENTS' ATTITUDES ABOUT COVID-19 PERIOD: THE SELF-PERCEPTION OF ADAPTATION TO CHANGE	2659
J.M. Guaita Martínez, A. Carrilero Castillo, J.C. Ballester Miquel, A. Rey-Martí, F.J. Portilla Salas INTRODUCING FLIPPED LEARNING IN THEORETICAL CLASSES OF COMPUTER AIDED DESIGN	2664
V. Gracia-Ibáñez, M. Vergara, V. Pérez-Belis, C. González-Lluch, M.J. Bellés-Ibáñez	
<b>DIGITAL EDUCATION AND CLIL: TEACHING ENGLISH TO HOSPITALITY STUDENTS</b> S. Eremeeva, E. Taipova, A. Ilyasova, P. Ganzhelyuk	2673
FIE AS A FORM OF PRE-SENIOR EDUCATION P. Jedličková	2681
<b>INSTAGRAM AS A VIRTUAL TEACHING RESOURCE IN UNIVERSITY EDUCATION</b> P. García-Herrera, P. Morales-Gómez, M.C. Matallana-González, R.M. Cámara-Hurtado, E. Cebadera- Miranda, M. Ciudad-Mulero, L. Domínguez-Díaz, E. Niño-Vega, M.C. Sánchez-Mata	2686
<b>USE OF A CONVERSATIONAL ENTITY TO REINFORCE LEARNING</b> J. del Sagrado, I.M. del Aguila, A. Bosch	2692
MONITORING THE EFFECTIVENESS OF SECONDARY EDUCATION: COMPARING THE RESULTS OF MATURA EXAMINATIONS AND 10TH GRADE NATIONAL ASSESSMENT EXAMINATIONS IN LITHUANIA R. Zelvys, A. Jakaitiene, R. Dukynaite, J. Vaitekaitis, L. Lipkeviciene, V. Brazdeikis	2700
<b>DEVELOPING THE PROFESSIONAL VISION IN INCOMING TEACHER TRAINING</b> <i>M. Pentucci</i>	2705
ENVIRONMENTAL LITERACY OF PUPILS AT ISCED LEVEL 2 IN GERMANY - RESEARCH PROBE S. Svobodová	2712
FROM POSSIBILITY TO THE EVERYDAY. DISTANCE LEARNING IN DESIGN EDUCATION L. Bollini, N. Ceccarelli	2723
MENTORING AS A TEACHING TOOL IN REPEATABLE PROJECT-BASED ANIMATION COURSES G. Marlow	2732
EDUCATION STRATEGIES TO IMPROVE THE CULTIVATION OF CITRUS IN AREAS ESPECIALLY AFFECTED BY CLIMATE CHANGE (AQUIFER 070.052 CAMPO DE CARTAGENA) J.M. Brotons-Martínez, A. Conesa-Martínez	2737
GUIDELINES FOR USE SERIOUS GAMES IN SOFTWARE ENGINEERING TEACHING I.M. Del Águila, J. Del Sagrado, A. Bosch	2742
IMPLEMENTATION OF AN AUGMENTED REALITY INFORMATION SYSTEM IN THE CONTEXT OF TEACHERS' PROFESSIONAL DEVELOPMENT M.C. Costa, A. Manso, P. Santos, B. Alegria, G. Rocha	2750
SHARED BOOK READING AND MATERNAL CONVERSATIONAL SENSITIVITY IN DYADS MOTHER-CHILDREN WITH COCHLEAR IMPLANT R. Concha	2760
E-HRM: CHANGES AND CHALLENGES FOR HUMAN RESOURCE MANAGEMENT P. Novo Melo, C. Machado	2761
INTRODUCTION OF A GAMIFICATION ACTIVITY TO A UNIVERSITY SUBJECT FOCUSED ON NOISE MANAGEMENT L. del Val, A.I. Tarrero, I. Calvo	2762
DIVERSITY MAPS: REPRESENTING INDIVIDUAL DIFFERENCES M. Steed	2772
THE PECULIARITIES OF PSYCHOLOGICAL WELL-BEING OF CIVIL AND MILITARY STUDENTS DEPENDING ON THEIR MOTIONAL ACTIVITIES I. Baranauskienė, A. Kovalenko, E. Hryshchuk, N. Rohal	2778
<b>ONOMASTICS AND SCHOOL</b> L. Angyal	2785
THE PECULIARITIES OF ACADEMIC PROCRASTINATION OF STUDENTS-FUTURE POLICE OFFICERS I. Baranauskienė, O. Bohucharova, A. Kovalenko	2792

ANALYZING THE POTENTIAL OF SMALL SCALE PUBLIC SPACES ADJACENT TO PRIMARY SCHOOLS OF ATHENS TO PROMOTE KIDS' ACTIVITIES AND THE SENSE OF COMMUNITY E. Grigoriadou, M. Bitsaki, K. Oungrinis-Alketas	2799
FREE TIME OF PRESCHOOL CHILDREN AND MEDIA IN THE AGE OF THE COVID-19 PANDEMIC M. Karacic, S. Kadum, M. Ruzic-Baf	2807
CONTENT OF DIGITAL EDUCATIONAL RESOURCES AND STUDENT INVOLVEMENT IN THE PROCESS OF DISTANCE LEARNING T. Bukina, L. Malakhova, E. Novgorodova, E. Nelyubina	2815
SOFT SKILLS DEVELOPMENT IN POSTGRADUATE STUDENTS DURING FOREIGN LANGUAGE TRAINING COURSE L. Gazizulina, A. Astafeva	2822
ELEMENTS OF GAMIFICATION IN THE PROCESS OF TRAINING STUDENTS TO TRANSLATE TEXTS T. Bukina, L. Malakhova, E. Novgorodova, L. Nurova	2827
CHANGING STRATEGIES IN TEACHING FOR A TRANSFORMATIVE LEARNING I. Ballester-Panelli, A. Brugueras-Fabre	2834
<b>AUTOMATION OF IT FACULTY WORK FROM THE TEACHING STAFF PERSPECTIVE</b> E. Muuli, E. Tõnisson, M. Lepp, R. Palm, P. Luik	2839
<b>SEARCHING THE WAYS TO CREATIVITY IN ENGINEERING EDUCATION THROUGH</b> <b>ENGINEERING GRAPHICS</b> <i>A. Martin-Erro, S. Nuere</i>	2849
<b>CROATIAN EXPERIENCES OF DISTANCE LEARNING AT THE BEGINNING OF THE</b> <b>PUBLIC HEALTH CRISIS CAUSED BY COVID-19</b> <i>Z. Bagaric, D. Plantak, B. Skof</i>	2859
FROM FACE-TO-FACE TO REMOTE LEARNING. EVALUATING ONLINE CLINICAL COMMUNICATION WORKSHOPS FOR VETERINARY SCIENCE STUDENTS I. van Gelderen, P. Sheehy, R. Taylor	2867
<b>TERTIARY STUDENTS' VIEW ON THE BENEFITS OF THEIR INVOLVEMENT IN THE</b> <b>UNIVERSITY BASED COMMUNITY SERVICE ON THEIR ESL SPEAKING SKILL</b> <i>N. Ismail, D.S. Ratan Singh, S. Alias@Elias, F. Md Kassim, R. Abu, I.S. Mohd Ariff Albakri, K.Y. Soo</i>	2878
UNDERSTANDING THE TRANSITION TO ONLINE DELIVERY IN HIGHER EDUCATION DURING THE PANDEMIC: A COMPARATIVE CASE STUDY U.G. Singh, V. Holmes	2884
IMPROVING MANDARIN LEARNING FOR DUNGAN BY AUTOMATIC SPEECH RECOGNITION AND MACHINE TRANSLATION H. Yang, R. Jiang	2893
<b>PRELIMINARY SURVEY ON JAPANESE ENGINEERS IN MANAGERIAL POSITIONS</b> <b>USING A GENERIC SKILL MEASUREMENT TEST</b> <i>A. Ryu Innes-Taylor, K. Waki, N. Matsumura, F. Hirata, A. Yamazaki, M. Inoue</i>	2901
<b>DEEP LEARNING-BASED SPEECH-TO-IMAGE CONVERSION FOR SCIENCE COURSE</b> H. Yang, S. Chen, R. Jiang	2910
WATER RESOURCES FORMULA DIGITAL REPOSITORY IN CIVIL ENGINEERING EDUCATION	2918
K. Khalid, M.E.S. Aziz, J. Ismail, Z. Othman, M.R. Zainudin, N.F. Rahman TRANSFER LEARNING-BASED DONGGAN SPEECH RECOGNITION FOR COMMUNICATION BETWEEN TEACHER AND STUDENT H. Yang, J. Zhang	2925
<b>DEEP LEARNING–BASED FORMULA RECOGNITION FOR SMART EDUCATION</b> <i>H. Yang, S. Wang</i>	2932
ETHNIC AND SOCIAL CONTEXTS IN CULTURAL EDUCATION: QUALITATIVE RESEARCH RESULTS IN FORMAL EDUCATIONAL SETTINGS A. Romanovska	2940
STRUCTURAL COMPARISON OF CURRICULUM DESIGN - MODELLING INTERNATIONAL STUDY PROGRAMS USING A LOGICAL LANGUAGE AND ITS GRAPHICAL REPRESENTATION M. von der Heyde, M. Goebel	2947
<b>TWO-DIMENSIONAL SIGNAL IMITATION AS AN ELEMENT OF THEORETICAL AND</b> <b>PRACTICAL TRAINING FOR ENGINEERS IN INFORMATION TECHNOLOGY</b> <i>E. Smirnova, V. Syuzev, V. Gurenko, I. Deykin, B. Bychkov</i>	2959

STUDENTS PERCEPTIONS AND ATTITUDES TOWARDS TECHNOLOGICAL INNOVATIONS P. Jucha, T. Corejova	2968
UNDERSTANDING DIFFERENT TEXT TYPES IN THE SEVENTH GRADE OF PRIMAR SCHOOL V. Gergelyová, I. Vančo	<b>RY</b> 2977
DESIGNING A MANDARIN LEARNING IN DONGXIANG NATIONALITY BY ARTIFICIAL INTELLIGENT SPEECH TECHNOLOGY H. Yang, X. Shan	2982
ASSESSING READING COMPREHENSION SKILLS OF YOUNG LEARNERS I. Vančo, V. Gergelyová	2990
LEARNING MODELS AND PROBLEMS: BEING STUDENTS IN PANDEMIC TIMES A' SAPIENZA UNIVERSITY OF ROME D. Capaldi, A. Ceccherelli	T 2996
PRE-SERVICE TEACHERS' MOTIVATION AND ATTITUDE TOWARDS BILINGUAL EDUCATION AT KAZAN FEDERAL UNIVERSITY, RUSSIA L. Salekhova, A. Danilov, R. Zaripova, K. Grigorieva, O. Malancheva	3005
<b>VIRTUAL LABORATORY PRACTICE BASED ON A SMALL TURBOJET ENGINE</b> F. Cruz-Peragón, E. Torres-Jiménez, F.J. Gómez de la Cruz, J.M. Palomar-Carnicero	3015
EDUCATION IN MULTICULTURAL CLASSROOM: CHALLENGES AND RESPONSES E. Sachkova, N. Ovchinnikova, O. Mokhova	3022
CONTENT AND LANGUAGE TEACHERS' COLLABORATION WITHIN A CLIL CLASSROOM	3029
O. Malancheva, L. Salekhova, K. Grigorieva, R. Zaripova, A. Danilov	
BUILDING PRACTICAL SESSIONS USING TECHNICAL-SCIENTIFIC SOFTWARE FO ENGINEERS' STUDENTS: EXPERIENCES IN MANUFACTURING COURSES R. Dorado-Vicente, E. Torres-Jiménez, A. García-Collado, F. Guerrero-Villar	<b>DR</b> 3036
USING CLIL APPROACH IN A NON-LINGUISTIC UNIVERSITY IN RUSSIA N. Ovchinnikova, E. Sachkova, O. Mokhova	3044
INNOSOCIAL ASPECTS IN THE ENTREPRENEURIAL EDUCATION OF COMPUTER SCIENCE STUDENTS B. Hegyi	3054
THE PRESENT SITUATION AND PATH OF THE INTEGRATION OF ROBOTICS AND STEM EDUCATION IN CHINA H. Yang, D. Zhang, C. Shang	3059
BUSINESS MATHEMATICS EXAMS BEFORE AND DURING LOCKDOWN M. Bakó, L. Aszalós	3067
INTRODUCING SUSTAINABILITY TO ENGINEERING STUDIES. EXPERIENCES BAS ON GREEN PACKAGING	<b>SED</b> 3072
F. Serra-Parareda, M. Alcalà Vilavella, J.A. Tarrés Farrés, F. Julián Pérez, M. Delgado-Aguilar, M.A Pelach Serra	ι.
"ALBERT VS. CORONAVIRUS": AN ONLINE PHYSICS GAME FOR REMOTE TEACH IN HIGH SCHOOL P. Gondoni	ING 3079
TASTING OF MINERAL SALTS: AN INCLUSIVE PROPOSAL FOR THE TEACHING O GEOLOGY	<b>F</b> 3080
A. García-Frank, O. Fesharaki, N. Iglesias-Álvarez	
ASSESSING MANDARIN PRONUNCIATION FOR TIBETAN LEARNER BY ARTIFICIA INTELLIGENT SPEECH TECHNOLOGY H. Yang, D. Li	AL 3088
UNDERSTANDING THE MEANING OF DIGITALLY COMPETENT LEADERSHIP IN SCHOOLS: A REVIEW OF RESEARCH S. Willermark	3095
EDUCATIONAL POLICY TOWARDS REGIONAL LANGUAGES IN A GLOBALIZED WORLD	3104
J. Mustafina, C. Gataullina, I. Sheglova, A. Hayrullin, G. Ganieva	
HOW DO TEACHERS TEACH NATURE IN SCHOOL? TEACHERS' ATTITUDES TOWARDS FORMS OF TEACHING AND THE USE OF ICT TECHNOLOGY IN NATUR SCIENCE SCHOOL SUBJECT IN THE REPUBLIC OF CROATIA D. Anđić, K. Žic, L. Marot	3111 RAL

IMPACT OF REMOTE LEARNING ON THE PROFESSIONAL COMPETENCES OF MEDICAL SPECIALISTS AND HEALTH PROFESSIONALS IN THE THEMATIC FIELD "GRASP AND GAIT REHABILITATION" (A COMPARATIVE STUDY) I. Koleva, B. Yoshinov, R. Yoshinov	3122
ANALYSIS OF TWO ICT TOOLS, MOODLE AND SOCRATIVE, IN HIGHER EDUCATION ON STUDENTS' ACADEMIC RESULTS L. García, E. Romero, J. Ceamanos, L. Lázaro	3131
<b>MASS MEDIA IN REGIONAL LANGUAGES IN GLOBALIZED WORLD</b> J. Mustafina, N. Nurutdinova, A. Ibragimova, A. Hayrullin, G. Ganieva	3138
<b>EDUCATION AND DEVELOPMENT. THE ROLE OF HUMAN CAPITAL IN SUSTAINABLE GROWTH</b> L. Călinescu, P. Dobrescu, F. Durach	3142
<b>DEEP AND SHALLOW GAMIFICATION IN HIGHER EDUCATION, WHAT IS THE DIFFERENCE?</b> <i>P. Mozelius</i>	3150
<b>INTERNSHIPS EXPERIENCE, EMPLOYABILITY AND HIGHER EDUCATION</b> J. Turmo-Garuz, M.T. Bartual-Figueras, F.J. Sierra-Martínez, A. Coco-Prieto, P. Purroy-Sánchez, M. Simó-Solsona	3157
<b>LEARNING ANALYTICS: CHALLENGES AND PERSPECTIVES</b> J. Mustafina, L. Galiullin, M. Alloghani, A. Khanova	3163
GENDER SENSITIVITY IN HIGHER EDUCATION. SOME EVIDENCES IN SOCIAL SCIENCE STUDENTS	3167
M.T. Bartual-Figueras, G.E. Bonilla-Vélez, M. Carbonell-Esteller, A. Coco-Prieto, M. Rodríguez-López, F.J. Sierra-Martínez, J. Turmo-Garuz	
STUDENTS' PERCEPTIONS ABOUT TEACHERS' FEEDBACK IN ACQUIRING ENGLISH AS A FOREIGN LANGUAGE (ALBANIAN CONTEXT) A. Muho	3172
THE EDUCATIONAL PROCESS THROUGH THE ACTIVE USE OF LEARNING MANAGEMENT SYSTEM TOOLS L. Knapčíková, J. Husár, M. Trojanová, S. Hrehová	3177
9TH GRADE STUDENTS' EXPERIENCES REGARDING LEARNING OF MATHEMATICS DURING COVID-19 LOCKDOWN IN SPAIN L. Moliner, F. Alegre, V. Gil Lorenzo	3185
METHODICAL TRAINING OF A FUTURE PHYSICS TEACHER TO USE EXPERIMENTAL TASKS IN TEACHING SCHOOLCHILDREN M. Dammer, I. Bespal, O. Bochkareva, N. Bochkareva, V. Kudinov	3189
HIGH-SCHOOL MATHEMATICS TEACHERS' EXPERIENCES REGARDING TEACHING DURING COVID-19 LOCKDOWN IN SPAIN L. Moliner, F. Alegre, V. Gil Lorenzo	3199
DIALECTAL TALKING BOOKS IN EDUCATION K. Presinszky	3204
SOCIAL COMPETENCES OF FUTURE TEACHERS IN CROATIA - VALIDATION AND ADJUSTMENT OF THE SCALE OF SOCIAL COMPETENCES A. Curić, D. Anđić	3210
A SYSTEMATIC LITERATURE REVIEW ON COLLABORATIVE LEARNING IN NURSE AND MIDWIFERY ONLINE TRAINING F. Pozzi, F. Manganello, M. Passarelli, D. Persico, M. Romagnoli	3211
<b>THE ROLE OF AUDIAL PERCEPTION IN STUDENTS' ACADEMIC ACHIEVEMENTS</b> <i>E. Luchinina, E. Stolyarova, E. Temyanikova, E. Valyaeva</i>	3220
THE ROLE OF STUDENTS 'KINESIOLOGICAL ACTIVITIES AND INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) IN FORMING LEISURE TIME FOR 8TH GRADE PRIMARY SCHOOL STUDENTS I. Dubovečak, I. Prskalo	3228
A SHIFT IN AUTOMATIC ITEM GENERATION TOWARDS MORE COMPLEX TASKS H. Baum, G. Damnik, M. Gierl, I. Braun	3235
EVALUATION OF SPECIAL EDUCATION NEEDS DIAGNOSTICS IN SCHOOL COUNSELING FACILITIES IN THE CZECH REPUBLIC P. Baslerová, J. Michalík, I. Hrubešová	3242
<b>PERCEPTIONS OF THE HOLOCAUST: SCHOOL CURRICULA IN LATVIA</b> E. Vasiljeva	3248

EXTRACURRICULAR PROJECTS IN THE ROMANIAN EDUCATIONAL CONTEXT: BETWEEN STUDENTS' MERE PARTICIPATION AND GENUINE ENGAGEMENT M. Tilea, O.A. Duță, A. Reșceanu	3255
THE USE OF SOFTWARE IN THE IMPLEMENTATION OF ONLINE LEARNING DURING THE CORONAVIRUS DISEASE PANDEMIC IN CROATIA M. Berberović, V. Slavuj, B. Kovačić	3265
<b>ROBOTICS EDUCATION FOR ENHANCING STUDENTS' TRANSVERSAL SKILLS</b> C.M. Pavel, O.F. Caltun	3275
USE OF ENGLISH BORROWINGS IN THE FRENCH NEWSPAPER DISCOURSE: DANGER TO LANGUAGE LEARNING OR NECESSARY ENRICHMENT? A. Ilyasova, P. Ganzhelyuk, E. Taipova, S. Eremeeva	3281
LINGUISTIC AND PUNCTUATIONAL FEATURES OF RESEARCH ARTICLE ABSTRACTS IN ENGLISH-JAPANESE PARALLEL CORPORA—ENVISAGING PEDAGOGICAL APPLICATIONS M. Asano, M. Fujieda, J. Noguchi	3287
GAME-BASED LEARNING IN VET SCHOOLS: A LEARNING ARCHITECTURE FOR EDUCATORS IN VOCATIONAL EDUCATION M. Arnold, B. North, H. Fischer, J. Mueller, M. Diab	3297
VR-BASED LEARNING AND TEACHING. A FRAMEWORK FOR IMPLEMENTATION OF VIRTUAL REALITY IN FORMAL EDUCATION H. Fischer, M. Arnold, S. Philippe, J. Dyrna, S. Jung	3304
<b>PROMOTING NATIONAL COMMON LANGUAGE TEACHING BY INTELLIGENT</b> <b>SPEECH TECHNOLOGY SUPPORTED WITH PRODUCTION-ORIENTED APPROACH</b> <i>H. Yang, C. Shang, D. Zhang</i>	3315
GAMIFICATION AS A TECHNOLOGY ENABLER OF AR-ENHANCED WAREHOUSE LOGISTICS PROCESSES A. Bright, S. Ponis	3322
CHILDREN IN ROLES OF BOTH IN AGGRESSORS AND VICTIMS IN CYBERSPACE T. Hajdukova, S. Šišulák	3327
IMPROVEMENT OF COMPETENCIES NECESSARY FOR LIFE BY USING THE FLIPPED LEARNING APPROACH K. Bārdule	3336
<b>CURRENT FORMS OF TEACHER-SHAMING IN DISTANCE LEARNING DURING THE</b> <b>COVID-19 PANDEMIC</b> <i>M. Kaliba, P. Ambrožová</i>	3347
LINGUA SLAM AS DEVELOPMENT DRIVER IN SCIENCE POPULARIZATION AND PUBLIC OUTREACH ACTIVITIES M. Petrova	3353
WHAT DO UNIVERSITY STUDENTS DO IN ONLINE TEACHING? REFLECTIONS ON CURRENT FORMS OF ACADEMIC PROCRASTINATION, EXPERIENCE FROM THE CZECH REPUBLIC M. Kaliba, P. Ambrožová	3357
SIGNIFICANCE OF AN ELECTRONIC BOOK IN "PHYSICAL PREVENTION (INCL. WELLNESS, SPA AND MEDICAL SPA)" IN THE DISTANCE EDUCATION OF MEDICAL DOCTORS (PHYSIATRISTS) AND HEALTH PROFESSIONALS I. Koleva, R. Yoshinov, B. Yoshinov	3362
<b>UPDATING THE BUSINESS CURRICULUM: REACHING SUSTAINABILITY THROUGH</b> <b>SOCIAL ENTREPRENEURSHIP</b> <i>M. Jacques, D. Fortier</i>	3369
SOME CONSIDERATIONS ON FOSTERING STUDENTS' INTEREST AND PARTICIPATION IN ONLINE LEARNING ENVIRONMENTS E. Nechita, V.M. Cojocariu, L.R. Manea, V. Zichil	3378
<b>STUDENT APPROACH TO LEARNING IN A DEGREE LEVEL SUBJECT: EVOLUTION</b> <b>OVER THE TERM</b> <i>M. Leiva-Brondo, J. Cebolla-Cornejo, R. Peiró, A. Pérez-de-Castro</i>	3386
PRELIMINARY ASSESSMENT OF SUSTAINABLE DEVELOPMENT GOALS BY FRESHMEN STUDENTS OF A LIFE SCIENCE DEGREE M. Leiva-Brondo, A. Atarés, A. Pérez-de-Castro, C. Lull	3394
DEVELOPMENT AND EXPANSION OF EUROPEAN JOINT MASTER'S PROGRAMME IN LINE WITH GROWING DEMAND FOR HIGH QUALITY PROFESSIONALS R. Bardauskiene, J. Pivoriene, I. Zemaitaityte	3401

UNIVERSITY-INDUSTRY COLLABORATION'S NEXT LEVEL: A COMPARATIVE STUDY AS BASIS FOR A USER-CENTRED DESIGN OF A MASTER'S PROGRAMME IN DIGITAL TRANSFORMATION D. Monett, C. Lemke	3409
LINGUISTIC AND INFORMATION COMPETENCE OF FOREIGN MA STUDENTS STUDYING RUSSIAN AS A FOREIGN LANGUAGE: STRUCTURE AND CONTENT M. Lukoyanova, N. Batrova, K. Grigorieva, E. Chugunova	3417
UNIVERSITY AND INDUSTRY COLLABORATION: ENTREPRENEURSHIP OBSERVATORY AND INCUBATOR BETWEEN THE CURRICULUM AND EMPLOYABILITY CONNECTION S. Oliveira E Sá, M. Magalhães, R. Matos, E. Vázquez-Justo, J. Pascoinho, L. Guimarães, D. Pinto, C. Costa-Lobo	3424
ANALOG VS. DIGITAL SPACES - HOW UNIVERSITY LECTURERS EVALUATE POSSIBILITIES FOR PRE-SERVICE TEACHERS EDUCATION WITHIN THE CORONA- PANDEMIC M. Delere, H. Höfer-Lück, G. Marci-Boehncke, T. Vogel	3425
INNOVATIVE DESIGN OF A PEDAGOGICAL DECISION-SUPPORT TOOL A. Villeneuve, Y. Bouchamma	3433
FACTORS AFFECTING THIRD LANGUAGE ACQUISITION: A CASE OF CHINESE STUDENTS	3441
D. Dudkova, K. Grigorieva, M. Lukoyanova, N. Batrova, E. Chugunova GAME-BASED LEARNING AS A SUITABLE APPROACH FOR TEACHING DIGITAL ETHICAL THINKING IN THE FIELD OF ARTIFICIAL INTELLIGENCE M. Bloomfield, C. Lemke, D. Monett	3447
TOWARDS AN IMPROVED LABORATORY PRACTICAL SESSION ASSISTED BY GAMIFICATION TECHNIQUES E. Aznar	3457
CODING AS LITERACY: CASE STUDIES AT PRE-PRIMARY AND ELEMENTARY SCHOOL A.F. Monteiro, M. Miranda-Pinto, A.J. Osório, C. Araújo	3458
THE CONTRIBUTION OF UNIVERSITY RESEARCH IN THE DEVELOPMENT OF HORTICULTURE PRODUCTION C.M. Povian, A.I. Ienciu	3465
SCHOOL BETWEEN THE "WORLD OF WORK" AND "WORLD OF PLAY": ON THE ISSUE OF INTRODUCING THE GAME APPROACH TO EDUCATION O. Gilyazova, I. Zamoshchanskii	3472
PEER TO PEER TRAINING AND TUTOR FOR NEWLY HIRED TEACHERS IN THE ITALIAN SCHOOL CONTEXT: A PROFESSIONAL DEVELOPMENT PATH AT ROMA TRE UNIVERSITY <i>G. Moretti, A. Morini, A. Giuliani, B. Briceag, A. Gargano</i>	3480
ASSESSING THE EFFECTIVENESS OF CYBERSECURITY TRAINING AND RAISING AWARENESS WITHIN THE MARITIME DOMAIN M. Canepa, F. Ballini, D. Dalaklis, S. Vakili	3489
MARITIME AND OCEAN POSTGRADUATE EDUCATION DURING THE COVID-19 PANDEMIC: OPPORTUNITIES AND CHALLENGES ASSOCIATED WITH ONLINE DELIVERY OF LECTURES M. Kitada, D. Dalaklis, F. Ballini, M. Canepa	3500
APPLICATION OF WORK INTEGRATED LEARNING IN DESCRIPTIONS OF PRACTICAL IMPLICATIONS - A STUDY OF DISSERTATION WORK WITHIN INFORMATICS WITH SPECIALIZATION IN WORK INTEGRATED LEARNING C. Gjellebæk, V. Johansson, S. Samuelson	3507
<b>CORRELATION BETWEEN THE WORK ENVIRONMENT AND THE PSYCHOSOCIAL</b> <b>RISKS OF A HIGHER TECHNICAL INSTITUTION IN THE CITY OF GUAYAQUIL</b> <i>K. Escobar-Segovia, A. San Lucas-Guadalupe, M. Caicedo-Quiroz, R. Valenzuela-Mendieta, D. Guzmán-</i> <i>Cadena</i>	3508
<b>TEACHING IN SECONDARY SCHOOLS WITH A SAFETY FOCUS AT THE TIME OF</b> <b>COVID-19</b> <i>D. Kopencová</i>	3517
<i>FUTURE OF VOCATIONAL EDUCATION - LIGHT AT THE END OF THE TUNNEL: THE</i> CASE OF CROATIA S. Tišma, K. Horvatinčić, A.M. Boromisa, J. Puljiz	3527
<b>DIRECTING A LESSON IN RUSSIAN AS A FOREIGN LANGUAGE: PROS AND CONS</b> <i>T. Cherkashina, N. Novikova, S. Khromov, N. Romanova, I. Leshutina</i>	3535

A RHETORIC COURSE AT A TECHNICAL UNIVERSITY: WHAT CAN IT GIVE TO A STUDENT? N. Novikova, T. Cherkashina, I. Pugachev, M. Budiltseva, I. Varlamova	3541
<b>DISTANCE LEARNING IN THE CONTEXT OF COVID-19 PANDEMIC</b> E. Dolzhich, S. Dmitrichenkova, Y. Sanchez Pozuelo, A. Shabanova	3549
THE CHALLENGES OF TEACHING AND LEARNING TRANSLATION AND LANGUAGES DURING A PANDEMIC: A CASE STUDY WITH TWO COURSES IN A BUSINESS SCHOOL C. Tavares, M. Silva	3553
STUDENT SEXUAL SUPPORT IN EDUCATION E. Panarina	3560
SCHOOL-FAMILY PARTNERSHIP ACTIVITIES D. Mara	3565
A NEW APPROACH TO TEACHING MATHEMATICS AT THE UNIVERSITY TODAY - THE TIME OF COVID 19 V. Kohout	3569
<b>TEACHING STATISTICS WITH THE HELP OF R LANGUAGE</b> V. Kohout	3575
<b>DIGITAL COMPETENCES OF HIGH SCHOOL STUDENTS</b> M. Malčík, M. Miklošíková, J. Pospisilik	3582
SPECIALTIES OF REMOTE EDUCATIONAL PROCESS AT ACADEMY OF THE POLICE FORCE IN THE TIME OF CRISIS SITUATION I. Košč, M. Koščová, M. Odlerová, R. Odler	3591
FORUM USERS' ACTIVITY AND THE ROLE OF ANSWER PERSONS IN A PROGRAMMING MOOC R. Suviste, H.L. Nõmme, E. Tõnisson	3600
THE PLACE AND ROLE OF INFORMATION TECHNOLOGIES IN THE ORGANIZATION IN THE OPINION OF FUTURE USERS W. Chmielarz, T. Parys	3609
PROBLEM SOLVING: COMPETENCE FOR THE ENHANCEMENT OF TALENTS. A RESEARCH WITH FUTURE PRIMARY SCHOOL AND KINDERGARTEN SUPPORT TEACHERS G. Ferrara, F. Pedone	3618
TOOLS TO MONITOR AND EVALUATE INCLUSION: AN HISTORICAL REVIEW G. Ferrara	3627
IMPROVING ENGINEERING EDUCATION IN THE INDUSTRY 4.0 ENVIRONMENT. THE USE OF AN EDUCATIONAL INNOVATIVE LAB U. Sanjuán Sanchez, J. Herrera Herbert, A. López Mederos, M. Muñiz Fernandez, A. Calvo Paz, C. Carrión Isaacs, L. Vela Bárez, G. Pérez de Gracia Díaz	3639
MICROSOFT 365: A TEACHING AND LEARNING RESOURCE DURING THE PANDEMIC A.P. Aires, J. Escola, N. Lopes	3647
UNDERSTANDING STUDENTS' COMMENTS THROUGH SENTIMENT ANALYSIS: A CASE OF FU JEN CATHOLIC UNIVERSITY LOVE SCHOOL FORUM IN TAIWAN H.L. Tu, G.S. Ching	3653
AN INTELLIGENT MANDARIN-TIBETAN BILINGUAL LEARNING PLATFORM FOR MANDARIN LEARNING H. Yang, D. Zhang, R. Jiang, C. Shang	3660
MEANINGFUL TEACHING BARRAGE SCREEN RECOGNITION FROM INTERACTIVE PERSPECTIVE L. Wang, H. Yang, C. Shang	3666
REALIZING A DYNAMIC SIGN LANGUAGE RECOGNITION FOR DEAF-MUTE'S EDUCATION H. Yang, X. Li, W. Guo	3675
TRANSITION TO ASSESSMENT ONLINE: EXPERIENCES OF KAZAKHSTANI ENGLISH INSTRUCTORS S. Tastanbek, A. Urazbekova, Z. Tleshova	3682
THEORY AND PRACTICE OF USING INFOGRAPHICS IN MODERN EDUCATIONAL STRATEGIES V. Pisarenko, M. Bondarev	3690
LEARNER AUTONOMY AND VISIONS OF SELF IN CRITICAL ACADEMIC WRITING H. Kashi	3700

THE VISUAL GONE VIRTUAL: ART EDUCATION DURING A PANDEMIC T. Tihanyi	3708
A LITERATURE REVIEW: THE ADOPTION OF CLOUD COMPUTING TECHNOLOGY BY HIGHER EDUCATION INSTITUTIONS H. Denizalp, D. Karagozlu	3715
<b>LEGAL REGULATION OF INCLUSIVE EDUCATION: REGIONAL ASPECT</b> N. Smolina, A. Smykalin, Y. Tsiplakova	3720
ANALYSIS OF THE APPLICATION OF SOCRATIVE AS A TOOL FOR THE LEARNING IMPROVEMENT IN A SUBJECT OF EXPERIMENTATION IN CHEMICAL ENGINEERING B. García-Fayos, M. Sancho, J.M. Arnal, E. Zuriaga-Agustí, I. López-Hernández	3727
SYNCHRONOUS LECTURES: IS IT APPEALING FOR MEDICAL STUDENTS TO LEARN BIOCHEMISTRY? E. Alias, N.A.S. Ismail	3734
APPLICATION OF PROBLEM-BASED LEARNING (PBL) IN THE COURSE "INDUSTRIAL CHEMICAL TECHNOLOGY" OF THE MASTER'S DEGREE IN INDUSTRIAL ENGINEERING M. Sancho, B. García-Fayos, E.M. García-Castelló, M.C. Martí-Calatayud, A.D. Rodríguez-López, M.A.	3740
Bes-Pia, J.A. Mendoza-Roca, M.A. Santafé-Moros	
COMPUTATIONAL THINKING AS A NEW CROSS-CURRICULAR COMPETENCE J. Bilbao, E. Bravo, O. García, C. Rebollar, C. Varela	3748
ERASMUS+ PROJECTS' RESILIENCE DURING COVID-19 PANDEMIC: THE CASE OF BENEFIT PROJECT "BOOSTING INNOVATION IN EDUCATION AND RESEARCH OF PRECISION AGRICULTURE IN PALESTINE" M. Najjar, M. Shtaya, M. Hawawreh	3755
IMPLEMENTATION OF SMART GLASSES INTO THE EDUCATIONAL PROCESS AT UNIVERSITIES: A CASE STUDY J. Husár, L. Knapčíková, S. Hrehová, M. Trojanová	3764
DESIGNING NATURAL IMAGE MARKERS FOR AUGMENTED REALITY TEXTBOOKS: A QUASI-EXPERIMENTAL STUDY J. Casteleiro-Pitrez	3774
SCHOOL ONLINE E-LEARNING PLATFORMS IN THE TRAINING OF FUTURE TEACHERS OF MATHEMATICS AND COMPUTER SCIENCE E. Filimonova	3784
LONGITUDINAL SUPPORT FOR THE PSYCHOLOGICAL DEVELOPMENT OF AN ELITE JAPANESE ATHLETE WITH SEVERE INJURIES - A CASE STUDY FROM THE PSYCHODYNAMIC PERSPECTIVE O.C. Ogawa	3794
PARENTS' VIEW OF MEDIA USE BY CHILDREN DURING THE COVID - 19 PANDEMIC P. Ambrožová, P. Eisenkolbová, I. Junová, L. Stašová	3802
CHANGES IN MEDIA USE BY CHILDREN DURING LOCKDOWN IN THE CZECH REPUBLIC P. Ambrožová, T. Chladová, I. Junová, L. Stašová	3810
EDUCATION AND VOCATIONAL TRAINING OF MOTOGP RACING TEAMS MECHANICS M. Bodart, M. Bruyninckx, M. Delaunoy	3818
COMPARISON OF LANGUAGE SYLLABI DESIGN IN MILITARY EDUCATION S. Jonáková, M. Šikolová, P. Račková	3825
<b>ETHICAL EDUCATION AND THE DUTY TO REMEMBER: EMOTIONAL EXPERIENCES</b> <b>OF VISITORS TO BREENDONK FORT</b> <i>M. Bruyninckx, D. Cauchie, M. Demoustiez</i>	3834
<b>TEACHING ENGINEERING ONLINE IN TIMES OF PANDEMIC: SOME PARADIGMS</b> <b>FROM ROMANIAN UNIVERSITIES</b> <i>A. Craifaleanu, I.G. Craifaleanu</i>	3842
TEACHING GAME THEORY AND RATIONALITY TO ARTIFICIAL INTELLIGENCE MASTER'S STUDENTS J. Jordán, V. Julián	3852
CHILDREN'S ETHICAL THINKING: PROJECT MELARETE, AN EDUCATIONAL CHALLENGE M. Ballarini, R. Bombieri	3859
<b>USING LEARNING BY DOING METHODOLOGY FOR TEACHING MULTI-AGENT SYSTEMS</b> J. Palanca, J. Jordán, V. Julián	3866

A MIXED METHODS STUDY ON AGRICULTURAL SCIENCE TEACHERS USAGE OF LAPTOPS IN THE CLASSROOM FROM SELECTED GOVERNMENT SECONDARY SCHOOLS IN TRINIDAD AND TOBAGO D. Budhooram, V. Kamalodeen	3872
SCIENCE PICTURE MATERIAL THROUGH THE EYES OF PRIMARY TEACHER TRAINEES J. Janovec, I. Brtnová Čepičková	3879
NEW TECHNOLOGIES IN HIGHER EDUCATION IN THE AGE OF THE PANDEMIC: A COMPARATIVE STUDY BETWEEN ECUADOR AND SPAIN J. Navarro Espinosa, G. Pedrós-Perez, M.P. Martinez-Jimenez, P. Aparicio-Martinez	3883
PROMOTING A COMPREHENSIVE EMOTIONAL AND SEXUAL EDUCATION PROGRAM IN HIGHER EDUCATION. A SURVEY CONDUCTED AMONG STUDENTS OF A UNIVERSITY IN THE FRENCH SPEAKING COMMUNITY OF BELGIUM A. Kerenneur, D. Cauchie, M. Bruyninckx	3890
THE EFFECTS OF STUDENT-LED ORGANIZATIONS ON THE QUALITY CONDITIONS OF REGIONAL ECOSYSTEMS A. Daniel, J. Almeida	3896
EDUCATIONAL VISIT TO SITES OF REMEMBRANCE USING NEW TECHNOLOGIES: EXPERIENCE OF FRENCH-SPEAKING BELGIAN STUDENTS AT THE BASTOGNE WAR MUSEUM M. Bruyninckx, D. Cauchie, M. Nyiratuza	3905
TATAR CULTURE-SPECIFIC CONCEPTS AS A SOURCE OF GLOBAL ENGLISH VOCABULARY ENRICHMENT G. Nurtdnova, M. Vinnikova, G. Fassahova, A. Yarhamova	3913
3D MODELLING OF SILK ROAD ARTEFACTS AS A TOPIC FOR REMOTE PROFESSIONAL STUDENT VOCATIONAL INTERNSHIPS DURING THE COVID-19 PANDEMIC	3918
M. Barszcz, J. Montusiewicz, T. Nowicki, R. Kayumow DISTANCE TEACHING OF 3D MODEL POST-PROCESSING ON THE EXAMPLE OF ARTEFACTS FROM THE SILK ROAD AREA K. Dziedzic, S. Korga, S. Skulimowski	3927
<b>UAS STUDENTS' APPROACHES TO LEARNING MATHEMATICS</b> E. Vaara, A. Rantakaulio, A. Eskola	3935
THE IMPORTANCE OF DEVELOPING STUDENTS' TECHNOLOGICAL SKILLS IN HIGHER EDUCATION FOR THEIR FUTURE QUALITY OF LIFE A. L. Rodrigues, L. Cerdeira, M.L. Machado-Taylor, H. Alves	3945
<b>TEACHING TRANSLATION TECHNIQUES UNDER LOCKDOWN</b> G. Nurtdnova, M. Vinnikova, G. Fassahova, A. Yarhamova	3950
FEATURES OF MODELING PEDAGOGICAL SYSTEMS IN THE INFORMATION SOCIETY S. Arsaliev, V. Pisarenko	3954
CIRCULAR ECONOMY IN A NETWORK OF EDUCATIONAL EXPERIMENTAL FARMS G. Cervantes	3964
<b>DEVELOPMENT OF WEB INTERFACE FOR A REMOTE ACCESS TO</b> <b>TELECOMMUNICATIONS LABORATORY</b> V. Mengov, S. Sotirov, N. Kafadarova	3971
CYBER SECURITY AND SERIOUS GAMES IN THE EDUCATIONAL PROCESS – AN EXPLORATORY STUDY OF THE LEARNING AND TECHNICAL PARAMETERS A. Jerman Blazic	3976
THE THERAPEUTIC POTENTIAL OF READING IN ATYPICAL SITUATIONS FOR THE INDIVIDUAL AS PROJECT CONCEPTION S. Eftimova, T. Todorova	3983
PERSONALITY-ORIENTED MOTIVES CHARACTERISTICS' SPECIALTIES OF TODAY'S MEDICAL STUDENTS PROFESSIONAL ACTIVITY V. Artyomenko, O. Tsilmak, Y. Formaniuk, K. Lazor	3987
<b>TRANSFORMATION OF LANGUAGE TEACHING IN THE CHALLENGING</b> <b>ENVIRONMENT OF DISTANCE EDUCATION</b> <i>E. Shmidt, E. Chelpanova, M. Bolina, V. Novikova, L. Naumenko</i>	3995
PARALLELISM BETWEEN THE REQUIRED DEEP-ROOTED TRANSFORMATIONS TO A CIRCULAR ECONOMY MODEL AND EDUCATION FOR SUSTAINABLE DEVELOPMENT	4000
E. Saez de Camara Oleaga, R. Minguez, M.C. Gomez	

E. Saez de Camara Oleaga, R. Minguez, M.C. Gomez

DEVELOPMENT OF HARDWARE MODULES FOR LABORATORY EXERCISES IN REMOTE TELECOMMUNICATIONS LABORATORY V. Mengov, S. Sotirov, N. Kafadarova	4001
LANGUAGE CO-LEARNING TECHNOLOGY THROUGH EXTRACURRICULAR ACTIVITY N. Tatarinova, A. Zhukova, J. Tatarinova	4007
ELECTRONIC EDUCATIONAL MODULE FOR THE BASICS OF METROLOGY D. Lukáčová, G. Bánesz	4015
<b>INSTRUCTIONAL DESIGN USING GAMIFICATION AND ARCS MODEL OF</b> <b>MOTIVATION</b> <i>A. Konstantinidou, E. Nisiforou</i>	4020
<b>RETHINKING ASSESSMENT – DO EDUCATION AND SCIENCE HAVE TO PAY OFF THE</b> <b>GENERAL BILL OF SOCIETY?</b> <i>S. Denchev, D. Stoyanova, R. Yotova</i>	4029
<b>LEARNING DATABASES USING PROJECT-BASED LEARNING</b> V. Tomás, S. Iserte, M. Pérez	4035
<b>TRAINING HEALTHCARE WORKS USING AN EDUCATIONAL TECHNOLOGICAL</b> <b>APPROACH: A PRELIMINARY STUDY</b> <i>E. Vaquero-Álvarez, G. Pedrós-Perez, M. Vaquero Abellán, M. Martinez-Jimenez, P. Aparicio-Martínez</i>	4040
MOODLE'S TECHNOLOGY ACCEPTANCE MODEL IN HIGHER EDUCATION: ANALYSIS OF PREDICTIVE VALIDITY AND HETEROGENEITY I. Bel-Oms, J.R. Segarra-Moliner	4049
INFORMATION LITERACY AND CULTURAL VALUES - LEARNING EXPERIENCE IN UNIVERSITY ENVIRONMENT S. Denchev, D. Stoyanova, S. Yordanova	4058
<b>DEVELOPING OF COLLABORATION BETWEEN UNIVERSITY - INDUSTRY- STUDENT</b> <i>P. Grznar, M. Gregor, M. Krajcovic, N. Burganova, S. Mozol</i>	4063
FLIPPED CLASSROOM AND COVID19. AN EXAMPLE OF DISTANCE LEARNING IN COMPUTER SCIENCE: DATABASES V. Tomás, M. Pérez, J.I. Aliaga	4071
RESEARCH OF ACTIVATING METHODS APPLICATION IN PEDAGOGICAL DISCIPLINES FROM THE PERSPECTIVE OF TEACHERS AND STUDENTS E. Tóblová	4077
<b>MOBILE TECHNOLOGY IN HIGHER EDUCATION: A THEMATIC LITERATURE REVIEW</b> D. Buzova, S. Sanz-Blas	4087
PROCEDURAL PROGRAMMING EXPERIENCE AS A PREDICTOR OF SUCCESS IN OBJECT-ORIENTED PROGRAMMING Y. Ayalew	4092
SPANISH STUDENTS' REFLECTIONS ON MOBILE TECHNOLOGIES AND THE USE OF MOBILE EDUCATIONAL APPLICATIONS S. Sanz-Blas, D. Buzova, C. Pérez-Cabañero, A. Cervera-Taulet	4099
WEB TOOL FOR THE COMPARISON OF MULTIPLE-CHOICE SCORING SCHEMES L. Bortz, U. Döring	4105
<b>STUDENTS' ATTITUDES, MOTIVATION AND HOW THEY USE TECHNOLOGY IN THE</b> <b>"NEW NORMAL" HIGHER EDUCATION CLASSROOM</b> <i>G. Sirovatka, V. Mićković, I. Mićković, J. Lazić, M. Domijan, Z. Lončar</i>	4114
THE VIRTUAL READER AND THE ACCESS TO INFORMATION IN TIMES OF CRISIS P. Mukanova, T. Petrova	4123
<b>3D, HAPTICS AND VIRTUAL REALITY TECHNOLOGIES IMPLEMENTATION RESULTS</b> <b>IN QUALITY ASSESSMENT AND ASSURANCE OF OBSTETRICIAN-GYNECOLOGISTS'</b> <b>HYSTEROSCOPY TRAINING</b> <i>V. Artyomenko, V. Nosenko, N. Shapoval, L. Mnih, A. Kozhukhar, N. Nastradina</i>	4128
STUDENTS' EXPERIENCE OF ASSESSMENT IN ONLINE HIGHER EDUCATION DURING COVID-19 M. Plavšić, M. Diković, R. Matković	4135
CORONAVIRUS REVITALIZING THE CONCEPT OF COMMUNITY: PLAYING 'AMONG US' AS A TOOL FOR OVERCOMING THE DANGERS OF CONTINUING LOCKDOWN - THE CASE OF 4TH YEAR BACHELOR DEGREE STUDENTS OF JAPANESE LANGUAGE T. Ivanova, S. Zhivkova	4144

ONLINE TEACHING DURING COVID-19 FROM THE UNIVERSITY STUDENTS' PERSPECTIVE M. Diković, M. Plavšić, R. Matković	4149
SIMULATION BASED EXPERIENCES IN NURSING EDUCATION: INTEGRATING 3D PRINTED MODELS OF VERTEBRAL COMPRESSION FRACTURES WITH MRI AND X- RAY	4159
D. Moeller, L. Lioce, S. Gunter, G. Maddux, N. Goddard, I. Fogle, M. Fogle, C. Gunter, B. Schroer	
CO-CREATING A GAMIFIED APP FOR ENHANCING STUDENTS' EMOTIONAL RESILIENCE IN TIMES OF CRISIS (COVID-19) I. Nicolaidou, L. Aristeidis, C. Christodoulou, L. Lambrinos	4169
NATIONAL ENGAGEMENT OF WOMEN IN STEM INITIATIVES: I BRAZILIAN WOMEN	4176
<b>IN STEM SYMPOSIUM</b> N.M. Franco Oliveira, A. Zíngara, A.C. Lorena, C.A. Martins, F. de Andrade Pereira, I. de Oliveira Zeli, I. Batista Henriques, K. Donato Fook, L. Ribeiro Santos, L.B. Farias, M.M. Silva, M. Gonçalves Moreira, M.C. Neyra Belderrain, M.M. Soares Matsumoto, N. Jodas, R.C. Piani, S. Sampaio Damin Custódio, L.K. Teles	4170
AN ANALYSIS OF COMPRESSION FRACTURES AND KYPHOPLASTY REPAIRS TO THE LUMBAR AND THORACIC SPINE SEGMENTS: USING COMPUTER SIMULATION AND 3D PRINTED MODELS	4182
D. Moeller, L. Lioce, C. Gunter, G. Maddux, I. Fogle, N. Goddard, B. Schroer	
STEM METHODS - EFFECTIVE STRATEGIES FOR TEACHING IT CLASSES IN HIGH SCHOOL EDUCATION K. Dyulgerova, D. Atanasova	4192
ADDRESSING MISMATCH BETWEEN TVET PROGRAMS AND THE SKILL NEEDS IN HYDROCARBON & ENERGY SECTOR – A CASE STUDY FROM QATAR Z. Said	4201
APPLICATION OF AUGMENTED REALITY (AR) IN BULGARIAN SCHOOL AND ITS POTENTIAL IMPACT ON THE FUTURE OF BULGARIAN EDUCATION N. Tihomirova, D. Atanasova	4210
<b>TEACHING CRITICAL THINKING THROUGH MEDIA DISCOURSE ANALYSIS</b> V. Novikova, E. Chelpanova, E. Shmidt, M. Bolina, L. Naumenko	4219
<b>TEACHING OF ARTISTIC RECITATION FOR LANGUAGE AND LITERATURE TRAINEE</b> <b>TEACHERS</b> <i>A. N. Tóth</i>	4223
BENEFITS AND EFFECTS OF HIGHER EDUCATION ACCREDITATION AND QUALITY ASSESSMENT IN PORTUGAL T. Silva, I. Soares	4229
COMPLEX INSTRUCTION PROGRAMME IN TEACHING OF MATHEMATICS AT PRIMARY LEVEL OF ELEMENTARY SCHOOLS T. Berta	4236
DESIGN OF A RUBRIC FOR GRADING PROBLEM-BASED LEARNING AT THE FACULTY OF MEDICINE OF THE UNIVERSITY OF GIRONA	4243
J.J. Suñol, L. Feliu, C. Martí, M. Bonnin, C. Carrión, F. Cordón, J. Garré, A. Gispert, T. Puig, L. Ramió, A. López, E. Vila, X. Xifró, X. Castells	
<b>POINT-OF-VIEW VERSUS TRADITIONAL VIDEOS AS A TOOL TO PROMOTE</b> <b>STUDENT'S SELF-LEARNING IN ANALYTICAL CHEMISTRY LABORATORIES</b> E.J. Carrasco-Correa, M. Beneito-Cambra, M. Vergara-Barberán, E.F. Simó-Alfonso, J.M. Herrero- Martínez, M.J. Lerma-García	4250
CHALLENGE-BASED LEARNING APPLIED TO THE DESIGN AND EXPLANATION OF CERTAIN MASS TRANSFER UNIT OPERATIONS AGAINST A PANEL OF EXPERTS M.L. Castelló Gómez, C. Barrera Puigdollers, L. Seguí Gil, A. Heredia Gutiérrez, J. García Hernández	4259
RECORDING A SCANNING ELECTRON MICROSCOPY APPLICATION VIDEO TO FACILITATE LABORATORY ON-LINE TEACHING AND INSTRUCTION OF MASTER'S STUDENTS M. Beneito-Cambra, M.J. Lerma-García, M. Vergara-Barberán, E.F. Simó-Alfonso, J.M. Herrero-	4268
Martínez, E.J. Carrasco-Correa.	
<b>REDESIGNING MARKETING CURRICULUM: THE ART OF MAKING CHOICES</b> A. Estima, S. Marques	4276
MONITORING THE USE OF FORMATIVE ASSESSMENT TOOLS IN SCIENCE SUBJECTS AT PRIMARY SCHOOLS IN SLOVAKIA	4284

R. Orosová, I. Sotáková

<b>DEVELOPMENT OF AR-PHONETICS: AN AUGMENTED REALITY BASED</b> <b>APPLICATION FOR IMPROVING ENGLISH PRONUNCIATION LEARNING</b> <i>A. Carrera Rivera, J. Samaniego Villarroel, S. Vasconez Miranda, A. Mayorga Alban, D. Valencia Ruiz</i>	4294
<b>AR TECHNOLOGIES IN EDUCATION TO MOTIVATE FOR LEARNING</b> <i>Z. Filatova, B. Kiselev</i>	4298
THE ISSUE OF PENALTIES AND ITS EXECUTION MODE: AN EMPIRICAL STUDY ON HUMAN RIGHTS EDUCATION A. Guimarães, F. Rebelo	4305
<b>STUDENTS' PERCEIVED ORGANIZATION AND SATISFACTION IN ONLINE</b> <b>LABORATORY DURING COVID-19 PANDEMIC</b> <i>R. Tammaro, I.S. Iannotta, C. Ferrantino</i>	4312
<b>BENEFITS OF DISTANCE LEARNING: DOES IT REALLY YIELD A POSITIVE OUTCOME?</b> <i>M. Diasamidze, N. Samnidze</i>	4320
<b>DIFFERENT METHODS FOR EFFECTIVE EXPERTS' KNOWLEDGE ELICITATION:</b> <b>EXAMPLES FROM THE ERASMUS+ LEGO PROJECT EXPERIENCE</b> F. Pompei, V. Castello, S. Del Vecchio, A. Chiaverini, A. de Benito Armas, A. Heikinheimo, F. Pomilio, M. Recchioni, C. Serrano Brocas, M. Siwek, A. Slawinska, M. Verkola, S. D'Albenzio	4325
THE LABORATORY AS A PEDAGOGICAL SPACE: AN EXPERIENCE WITH THE STUDENTS OF THE UNIVERSITY OF SALERNO R. Tammaro, I. Iannotta, C. Ferrantino, A. Notti	4333
<b>YOUNG STEM ONLINE TRAINING IN CONTROL ENGINEERING</b> J.E. Sierra-Garcia, D. Sarabia, M. Santos Peñas	4339
FOREIGN LANGUAGE TEACHING STANDARDS: A COMPARATIVE ANALYSIS A. Muzafarova, J. Daminova, A. Okhotnikova	4345
THE IMPACT OF HIGHER EDUCATION REFORMS ON THE STUDENTS' READINESS FOR POST-GRADUATE STUDIES: THE ENGLISH LANGUAGE DIMENSION J. Daminova, A. Muzafarova, A. Okhotnikova	4349
<b>THE ASSET PROJECT AS A TRAINING TOOL FOR ENERGY TRANSITION</b> <i>P. Zúñiga Saiz, C. Sánchez Díaz</i>	4354
PEDAGOGICAL DESIGN IN STEM EDUCATION BRIDGING EDUCATIONAL ROBOTICS, GAME-BASED LEARNING AND INQUIRY-BASED LEARNING: INSIGHTS FROM A BUNDLE OF LESSON PLANS BUILDING ON THE INCLINED PLANE T. Hovardas, N. Xenofontos, Y. Pavlou, G. Kouti, K. Vakkou, Z. Zacharia	4364
SUSTAINABLE CITY: A SERIOUS GAME IN CARDBOARD AND 3D VIRTUAL VERSIONS TO ENGAGE STUDENTS IN SUSTAINABILITY TOPICS A. Beccaceci, M. Occhioni, L. Stacchiotti, D. Pennesi, E. Paris	4372
THE CONTENT AND LANGUAGE INTEGRATED LEARNING APPROACH IN TEACHING ENGLISH FOR SPECIAL PURPOSES O. Lomakina	4381
CHALLENGES IN KEEPING STUDENTS ENGAGED IN ETHICS AND ACADEMIC INTEGRITY COURSE DURING COVID -19 PANDEMIC C.M. Pavel, D.G. Cozma, O.F. Caltun	4382
<b>LEARNING IN A DIGITAL ENVIRONMENT: PRACTICES AND PERSPECTIVES</b> <i>P. Mukanova</i>	4387
SCENARIOS BASED APPROACH TO ASSESS GLOBAL COMPETENCE IN ENGINEERING MOBILITY PROGRAMS I. Ortiz-Marcos, L.I. Ballesteros-Sánchez, V. Breuker, A. Hernández Bayo, R. Rodriguez-Rivero	4391
FROM BIG-SCALE FACE-TO-FACE LECTURES TO DISTANCE LEARNING: AN ADAPTED APPROACH TO TRANSFER PRACTICAL KNOWLEDGE AND SKILLS ON ELECTRICAL MACHINES (ELECTRICAL ENGINEERING) K. Mahtani, L.F. Beites, C.A. Platero, F. Blázquez	4396
<b>COMPARATIVE ANALYSIS OF PREDICTVE MODELS ON ONLINE EDUCATION IN</b> <b>CONTEXT OF COVID-19 – A CASE STUDY</b> D. Marcu, M. Danubianu, C. Simionescu	4403
TRAINING DIGITAL AGE ENGINEERS: A COMPARATIVE ANALYSIS OF EDUCATIONAL PRACTICES L. Bannikova, A. Zhilin, C. Szabó Marianna, I. Sholina	4413
EDUSCRUM MOTIVATES YOUNGER SCHOOL-AGE CHILDREN TO LEARN ENVIRONMENTAL SCIENCE	4419

T. Semenovskikh, T. Volkodav

ADAPTED HANDS-ON SELF-LEARNING METHODS THROUGH SIMULATION TO ENHANCE THE DISTANCE LEARNING EXPERIENCE IN ELECTRICAL MACHINES (ELECTRICAL ENGINEERING) K. Mahtani, L.F. Beites, J. Rodríguez, C. Veganzones	4424
COGNITIVE AND EDUCATIONAL IMPLICATIONS FOR DECODING CULTURAL CONCEPTS, REPRESENTED IN MULTIMODAL TEXTS E. Pozdnyakova, N. Oprishch	4431
POLITICAL SCIENCE EDUCATION IN THE ARAB WORLD: PROBLEMS AND PROSPECTS A. Othman, O. Grishin, O. Nesterchuk	4437
INTERDISCIPLINARY EDUCATION AND POPULARIZATION OF ONOMASTICS AT THE INSTITUTE OF HUNGARIAN LANGUAGE AND LITERARY SCIENCE OF UNIVERSITY IN NITRA J. Bauko	4444
EFFECT OF AUGMENTING ELECTRIC CIRCUIT SIMULATOR WITH HANDS-ON PRACTICE ON ACTIVE LEARNING EXPERIENCE DESIGN A.Z. Salem	4452
<b>INGENIOUS WAYS OF TEACHING ENGLISH THROUGH MODERN FICTION</b> N. Oprishch	4460
IMPLEMENTATION OF THE PORTFOLIO OF COMPETENCIES AS FINAL DEGREE PROJECT IN HUMAN NUTRITION AND DIETETICS DEGREE M. Pérez-Bermejo, M.M. Aranda-Jurado, F. Arteaga	4465
TEACHING ENGLISH AS A SECOND FOREIGN LANGUAGE TO STUDENTS OF INTERNATIONAL RELATIONS: LEXICAL SKILLS DEVELOPMENT O. Maximova, G.O. Lukyanova	4472
<b>EXPERIENCE OF USING DIGITAL EDUCATION PLATFORMS AT RUSSIAN AND</b> <b>CHINESE UNIVERSITIES IN THE CONTEXT OF COVID-19</b> <i>E. Grunt, E. Belyaeva, A. Merenkov</i>	4480
AUTOPSYCHOLOGICAL COMPETENCE AS A PREDICTOR OF SUBJECTIVE WELL- BEING IN YOUTH T. Semenovskikh, T. Volkodav, S. Shlyapina, G. Kuchterina, L. Parunina	4487
<b>THE IMPACT OF POLITICAL REFORM ON RELIGIOUS EDUCATION IN SAUDI ARABIA</b> <i>A. Othman, O. Grishin, O. Nesterchuk</i>	4494
	4494 4501
A. Othman, O. Grishin, O. Nesterchuk MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION	
A. Othman, O. Grishin, O. Nesterchuk <b>MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION</b> E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina <b>STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST</b> <b>SEMESTER INTERNATIONAL BUSINESS STUDENTS</b>	4501
A. Othman, O. Grishin, O. Nesterchuk <b>MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION</b> E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina <b>STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST</b> <b>SEMESTER INTERNATIONAL BUSINESS STUDENTS</b> S. Mubaraz, J. Heikkilä, L. Bellotti <b>TRANSITION CHALLENGES AND MENTORSHIP PROGRAMS FOR VULNERABLE</b> <b>FINAL-YEAR COLLEGE STUDENTS IN PERU</b>	4501 4507
A. Othman, O. Grishin, O. Nesterchuk <b>MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION</b> E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina <b>STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST</b> <b>SEMESTER INTERNATIONAL BUSINESS STUDENTS</b> S. Mubaraz, J. Heikkilä, L. Bellotti <b>TRANSITION CHALLENGES AND MENTORSHIP PROGRAMS FOR VULNERABLE</b> <b>FINAL-YEAR COLLEGE STUDENTS IN PERU</b> S.F. Valdivia Acurio, M.M. Pasco Dalla Porta <b>TRANSFORMATION OF RUSSIAN HIGHER EDUCATION INTO TRANSITION TO</b> <b>DISTANT EDUCATION: DECONSTRUCTION OF EDUCATIONAL PRACTICES</b>	4501 4507 4513
A. Othman, O. Grishin, O. Nesterchuk MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST SEMESTER INTERNATIONAL BUSINESS STUDENTS S. Mubaraz, J. Heikkilä, L. Bellotti TRANSITION CHALLENGES AND MENTORSHIP PROGRAMS FOR VULNERABLE FINAL-YEAR COLLEGE STUDENTS IN PERU S.F. Valdivia Acurio, M.M. Pasco Dalla Porta TRANSFORMATION OF RUSSIAN HIGHER EDUCATION INTO TRANSITION TO DISTANT EDUCATION: DECONSTRUCTION OF EDUCATIONAL PRACTICES E. Grunt, E. Belyaeva, A. Merenkov EDUCATION OF MENTORS IN THE HEALTH SYSTEM: BETWEEN NECESSITY AND THE PATH OF EXCELLENCE	4501 4507 4513 4522
<ul> <li>A. Othman, O. Grishin, O. Nesterchuk</li> <li>MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION</li> <li>E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina</li> <li>STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST SEMESTER INTERNATIONAL BUSINESS STUDENTS</li> <li>S. Mubaraz, J. Heikkilä, L. Bellotti</li> <li>TRANSITION CHALLENGES AND MENTORSHIP PROGRAMS FOR VULNERABLE FINAL-YEAR COLLEGE STUDENTS IN PERU</li> <li>S.F. Valdivia Acurio, M.M. Pasco Dalla Porta</li> <li>TRANSFORMATION OF RUSSIAN HIGHER EDUCATION INTO TRANSITION TO DISTANT EDUCATION: DECONSTRUCTION OF EDUCATIONAL PRACTICES</li> <li>E. Grunt, E. Belyaeva, A. Merenkov</li> <li>EDUCATION OF MENTORS IN THE HEALTH SYSTEM: BETWEEN NECESSITY AND THE PATH OF EXCELLENCE</li> <li>S. Mališa, A. Haramina, A. Šeremet</li> <li>SUSTAINABLE DEVELOPMENT IN EDUCATION: A NON-PARAMETRIC ANALYSIS</li> </ul>	4501 4507 4513 4522 4529
<ul> <li>A. Othman, O. Grishin, O. Nesterchuk</li> <li>MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION <ul> <li>E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina</li> </ul> </li> <li>STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST <ul> <li>SEMESTER INTERNATIONAL BUSINESS STUDENTS</li> <li>S. Mubaraz, J. Heikkilä, L. Bellotti</li> </ul> </li> <li>TRANSITION CHALLENGES AND MENTORSHIP PROGRAMS FOR VULNERABLE <ul> <li>FINAL-YEAR COLLEGE STUDENTS IN PERU</li> <li>S.F. Valdivia Acurio, M.M. Pasco Dalla Porta</li> </ul> </li> <li>TRANSFORMATION OF RUSSIAN HIGHER EDUCATION INTO TRANSITION TO <ul> <li>DISTANT EDUCATION: DECONSTRUCTION OF EDUCATIONAL PRACTICES</li> <li>E. Grunt, E. Belyaeva, A. Merenkov</li> </ul> </li> <li>EDUCATION OF MENTORS IN THE HEALTH SYSTEM: BETWEEN NECESSITY AND <ul> <li>THE PATH OF EXCELLENCE</li> <li>S. Mališa, A. Haramina, A. Šeremet</li> </ul> </li> <li>SUSTAINABLE DEVELOPMENT IN EDUCATION: A NON-PARAMETRIC ANALYSIS <ul> <li>K. Murillo, E. Rocha</li> </ul> </li> <li> "ALL ZOOMED OUT": EXPLORING UNDERGRADUATE STUDENT PREFERENCES FOR <ul> <li>STUDENT ENGAGEMENT IN SYNCHRONOUS VIRTUAL CLASSROOMS THROUGH PRACTITIONRE ACTION RESEARCH</li> </ul> </li> </ul>	4501 4507 4513 4522 4529 4536
<ul> <li>A. Othman, O. Grishin, O. Nesterchuk</li> <li>MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION <ul> <li>E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina</li> </ul> </li> <li>STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST <ul> <li>SEMESTER INTERNATIONAL BUSINESS STUDENTS</li> <li>S. Mubaraz, J. Heikkilä, L. Bellotti</li> </ul> </li> <li>TRANSITION CHALLENGES AND MENTORSHIP PROGRAMS FOR VULNERABLE <ul> <li>FINAL-YEAR COLLEGE STUDENTS IN PERU</li> <li>S.F. Valdivia Acurio, M.M. Pasco Dalla Porta</li> </ul> </li> <li>TRANSFORMATION OF RUSSIAN HIGHER EDUCATION INTO TRANSITION TO <ul> <li>DISTANT EDUCATION: DECONSTRUCTION OF EDUCATIONAL PRACTICES</li> <li>E. Grunt, E. Belyaeva, A. Merenkov</li> </ul> </li> <li>EDUCATION OF MENTORS IN THE HEALTH SYSTEM: BETWEEN NECESSITY AND <ul> <li>THE PATH OF EXCELLENCE</li> <li>S. Mališa, A. Haramina, A. Šeremet</li> </ul> </li> <li>SUSTAINABLE DEVELOPMENT IN EDUCATION: A NON-PARAMETRIC ANALYSIS <ul> <li>K. Murillo, E. Rocha</li> </ul> </li> <li> "ALL ZOOMED OUT": EXPLORING UNDERGRADUATE STUDENT PREFERENCES FOR STUDENT ENGAGEMENT IN SYNCHRONOUS VIRTUAL CLASSROOMS THROUGH PRACTITIONER ACTION RESEARCH <ul> <li>B. Batch, J. Roberts, C. Tucker, M. Roth, N. Douglas, R. Gable, S. Dance, R. Allen, A. Nakonechnyi</li> </ul> </li> <li> UNDERSTANDING AND USING THE CONCEPT OF STATISTICAL POWER IN THE DETERMINATION OF THE MINIMUM SAMPLE SIZE IN AN EXPERIMENTAL INVESTIGATION: REVERSING THE METHOD </li> </ul>	4501 4507 4513 4522 4529 4536 4545
<ul> <li>A. Othman, O. Grishin, O. Nesterchuk</li> <li>MULTI-AGENT SYSTEM IN VIRTUAL EDUCATION <ul> <li>E. Zaytsev, R. Khalabiya, I. Stepanova, L. Bunina</li> </ul> </li> <li>STUDENT CHARACTERISTICS AND TEAM COMPOSITION: INSIGHTS FROM 1ST <ul> <li>SEMESTER INTERNATIONAL BUSINESS STUDENTS</li> <li>S. Mubaraz, J. Heikkilä, L. Bellotti</li> </ul> </li> <li>TRANSITION CHALLENGES AND MENTORSHIP PROGRAMS FOR VULNERABLE <ul> <li>FINAL-YEAR COLLEGE STUDENTS IN PERU</li> <li>S.F. Valdivia Acurio, M.M. Pasco Dalla Porta</li> </ul> </li> <li>TRANSFORMATION OF RUSSIAN HIGHER EDUCATION INTO TRANSITION TO <ul> <li>DISTANT EDUCATION: DECONSTRUCTION OF EDUCATIONAL PRACTICES</li> <li>E. Grunt, E. Belyaeva, A. Merenkov</li> </ul> </li> <li>EDUCATION OF MENTORS IN THE HEALTH SYSTEM: BETWEEN NECESSITY AND <ul> <li>THE PATH OF EXCELLENCE</li> <li>S. Mališa, A. Haramina, A. Šeremet</li> </ul> </li> <li>SUSTAINABLE DEVELOPMENT IN EDUCATION: A NON-PARAMETRIC ANALYSIS <ul> <li>K. Murillo, E. Rocha</li> </ul> </li> <li> "ALL ZOOMED OUT": EXPLORING UNDERGRADUATE STUDENT PREFERENCES FOR STUDENT ENGAGEMENT IN SYNCHRONOUS VIRTUAL CLASSROOMS THROUGH PRACTITIONER ACTION RESEARCH <ul> <li>B. Batch, J. Roberts, C. Tucker, M. Roth, N. Douglas, R. Gable, S. Dance, R. Allen, A. Nakonechnyi</li> </ul> </li> <li> UNDERSTANDING AND USING THE CONCEPT OF STATISTICAL POWER IN THE DETERMINATION OF THE MINIMUM SAMPLE SIZE IN AN EXPERIMENTAL INVESTIGATION: REVERSING THE METHOD <ul> <li>F. Arteaga, M. Pérez-Bermejo</li> </ul> </li> </ul>	4501 4507 4513 4522 4529 4536 4545 4546

MEDIATION IN ENGLISH FOR SPECIFIC ACADEMIC PURPOSES EDUCATION J. Bérešová	4575
THE IMPACT OF TRADITIONAL TEACHING ON MODERN LANGUAGE TEACHING J. Bérešová	4579
HOW ARE DIGITAL CAPABILITIES RELEVANT TO MY DISCIPLINE? SIGNATURE PEDAGOGIES TO THE RESCUE T. Varga Atkins	4583
ITALIAN LYRICAL TEXTS IN FOREIGN LANGUAGE: FACE-TO-FACE AND REMOTE CLASSES K. Stroblova	4591
<b>MULTICLOUD DEPLOYMENT TO SUPPORT REMOTE LEARNING</b> M. Lacatusu, F. Lacatusu, I. Damian, A.D. Ionita	4601
<b>PEDAGOGICAL VALUE OF ENVIRONMENTAL EDUCATION AND MORAL ACTION</b> M. Karačić, S. Kadum, A. Debeljuh	4607
ANALYSIS OF THE EMPLOYMENT OF GRADUATES FROM THE FACULTY OF ENGINEERING FROM SIBIU ON THE LABOUR MARKET L.G. Popescu, M. Inta	4613
STUDENTS' SELF AND PEER ASSESSMENT PRACTICES: A CASE OF HYBRID ENTREPRENEURIAL HACKATHON S. Mubaraz, J. Heikkilä, J. Luomakoski, R. Khan	4619
THE BENEFITS OF INTERNSHIP FOR STUDENTS' SKILLS AND COMPETENCE DEVELOPMENT L.G. Popescu, M. Inta	4624
SOFTWARE SERVICES TO SUPPORT FACULTY MANAGEMENT IN TIMES OF PANDEMIC I. Damian, M. Lacatusu, A.D. Ionita, F. Lacatusu	4634
ADAPTATION TO ONLINE TEACHING BY USING ICTS IN THE MASTER DEGREE IN SECONDARY EDUCATION, VOCATIONAL TRAINING AND LANGUAGE TEACHING L. Scalschi, E. Llorens, B. Vicedo	4640
<b>HIGHER EDUCATION PARTNER MANAGEMENT SYSTEM IMPLEMENTATION</b> <i>E. Tundrea, C.E. Popovici</i>	4644
IS KNOWLEDGE CONTAGIOUS? A WORK INTEGRATED LEARNING STUDY ON THE EFFECTS OF INTERNSHIP ON THE WORKPLACE M. Andersson, L. Bernhardsson	4652
THE EFFECTIVE TEACHING OF APPLIED MATHEMATICS AT TECHNICAL UNIVERSITIES – ICT-SUPPORTED EDUCATION A. Vagaská	4660
CROATIAN STUDENTS CULTURAL BACKGROUND DETERMINANTS INFLUENCING E-LEARNING CHOICES AND PREFERENCES IN THE TIME OF COVID-19 PANDEMIC B. Pisker, K. Dokic, S. Bunjevac	4668
ANALYSIS OF THE CHILDREN'S LEARNING PROCESSES WITH A SCIENCE PROPOSAL BASED ON SCALES AND MEASUREMENT S. Guiu, G. Lemkow, M. Pedreira	4676
MINEHERITAGE: AN INNOVATIVE EDUCATION PROJECT LINKING EUROPEAN MINING HISTORY WITH THE MODERN EUROPEAN SOCIETY DEVELOPMENT U. Sanjuán Sanchez, J. Herrera Herbert, J.P. Veiga, A. López Mederos, M. Muñiz Fernandez, A. Calvo Paz, C. Carrión Isaacs, L. Vela Bárez, G. Pérez de Gracia Díaz	4686
<b>PERCEPTIONS OF METACOGNITIVE AND SELF-REGULATION STRATEGY USE OF</b> <b>UNDERGRADUATE STUDENTS DURING THE COVID-19 PANDEMIC</b> J. Matuga, M. Booth, A. Roberts, C. Koscheva	4693
COMPUTER PROGRAMMES FOR SPEECH ANALYSIS IN RUSSIAN LANGUAGE PHONETICS CLASSES I. Galiulina, I. Byiyk	4701
SOCIOEDUCATIONAL ACTIVITY AT CHILD FOSTER CARE SYSTEM IN THE CONTEXT OF DE-INSTITUTIONALISATION: SUBJECTIVE EXPERIENCES OF SOCIAL PEDAGOGUES O. Sapelyte, D. Alifanoviene, A. Kepalaite	4705
MATERIAL SYSTEMATISATION IN RUSSIAN AS FOREIGN LANGUAGE TEACHING: GRAMMAR CHART TECHNIQUE I. Galiulina, I. Byiyk	4712

<b>TRANSITIONING TO ONLINE EDUCATION: EXPERIENCES AND CHALLENGES</b> <i>K. Harangus, Z.I. Horváth, E. Szentes</i>	4717
FEATURES OF HIGHER EDUCATION DEVELOPMENT IN THE CONTEXT OF BOTH CROSS-BORDER REGIONS AND TRANSREGIONS T. Kalugina	4724
<b>HOW TO ENGAGE PARENTS IN STEM</b> S. Zauchner, S. Stella-Pfeiffer, S. Wimmer, I. Aistleitner, N. Denk, N. Salomon, M. Hollinetz, T. Wernbacher	4732
DID.VALUE: A PROJECT FOCUSED ON DEVELOPING A HOLISTIC MODEL FOR INCLUSION OF DISADVANTAGED COMMUNITIES IN INTERNSHIPS AND JOBS M. Potes Barbas, P. Matos	4742
NEW CHALLENGES FOR HIGHER EDUCATION RECRUITERS. FROM ENTERTAINMENT TO HIGHER EDUCATION ADMINISTRATION: THE IMPACT OF INFLUENCERS IN STUDENT AND FACULTY RECRUITMENT N. Pentie, C.E.N. Gal-Chis, E. Tundrea	4748
EDUCATION OF LEADING PEDAGOGICAL STAFF IN PARTIAL LEADERSHIP COMPETENCIES A. Opletalová, Z. Nováková	4759
DIGITAL TOOLS TO SUPPORT COMPETENCE-BASED LEARNING APPROACHES IN HIGHER EDUCATION A. Georgiev, P. Mihnev, E. Stefanova, N. Nikolova, A. Antonova, K. Stefanov	4768
INNOVATION OF THE COMPULSORY COURSE "POPULATION PROTECTION AND ENVIRONMENTAL SECURITY" S. Slivkova, L. Brumarova, J. Brumar	4778
QUALITY OF ELECTRONIC DISTANCE LEARNING IN BULGARIA IN THE CONDITIONS OF THE PANDEMIC CAUSED BY COVID-19 (RESULTS FROM THE STUDY OF THE OPINION OF FORMER LAST YEAR HIGH SCHOOL STUDENTS) V. Slavov, K. Yotovska, A. Asenova	4784
LEARNING BY DOING A FILM! STUDENTS AS A DIRECTORS OF THEIR LEARNING C. Aragonés-Jericó	4790
LEARNING PROGRAMMING BY COMPUTER GAME CREATION WITH PRIMARY SCHOOL PUPILS M. Karpielová	4795
"CLOSE FROM AFAR": E-LEARNING AND RESILIENCE CHALLENGES FOR VULNERABLE COMMUNITIES IN TIMES OF COVID-19 CRISIS A.S. de Rosa, M. Dutto, M. Latini, S. Taieb	4803
DEVELOPMENT OF SOCIAL EDUCATIONAL SERVICES IN THE INTERCULTURAL ENVIRONMENT OF THE EU: ANALYSIS OF THE DISCOURSE OF SUBJECTIVE EXPERIENCES OF EMIGRANTS D. Alifanoviene, O. Sapelyte, A Kepalaite	4815
IMPROVING DISTANCE LEARNING IN SAFETY DISCIPLINES K. Tomanova, B. Machalova, L. Brumarova, S. Slivkova	4821
<b>SCIENCE IN THE MEDIA: RECONNECTING STUDENTS TO REALITY</b> <i>F. Hortas, P. Herrera, M. Oliva, J.A. Muñoz-Cueto, A. Pérez-Hurtado, R. Cabrera-Castro</i>	4827
<b>PERCEPTION OF THE SOCIAL EDUCATOR PROFILE: A STUDY WITH WEBQDA</b> A. Camões, D. Noronha E Sousa, A. Noronha E Sousa, S. Oliveira E Sá	4831
<b>EXPLORING THE IMPACT OF THE PANDEMIC ON THE FUTURE OF INDUSTRY</b> <b>EXPERT ADJUNCTS</b> <i>E. Walker, A. Guido, M. Boyer</i>	4832
SOME POSSIBILITIES OF DISTANCE LEARNING OF PROGRAMMING V. Stoffová, M. Karpielová, R. Horváth, S. Némethová	4838
LEARNING UNDER LOCKDOWN IN THE LAB CHEMISTRY COURSE OF INDUSTRIAL ENGINEERING DEGREE M. Andrés, I. Egues, I. Dávila, M. Zubitur	4845
NINJA TURTLES RACE: A REACTION TIME TEST TO STUDY AND ASSESS THE FOCUS OF ATTENTION, MOTOR, AND COGNITIVE SKILLS IN CHILDREN'S LEARNING PROCESSES D. Sousa, A. Coelho, G. Bernardes, N. Correia	4851
CROSSCUTTING RESEARCH PROGRAM BASED ON THE DEVELOPMENT OF SOCIO- EMOTIONAL COMPETENCIES TO COMBAT ADVERSITY IN THE EDUCATIONAL CONTEXTS OF THE 21ST CENTURY T. Pozo-Rico, R. Gilar-Corbí, J.L. Castejón	4858

UNIVERSITY STUDENTS' SATISFACTION ABOUT THE TRANSVERSAL INTEGRATION AN E-LEARNING TRAINING BASED ON THE DEVELOPMENT OF SOCIO-EMOTIONAL SKILLS AND NEW EDUCATIONAL INNOVATION METHODOLOGIES T. Pozo-Rico, R. Gilar-Corbí, A. Izquierdo	4869
THE RELATIONSHIP BETWEEN LEARNING STRATEGIES AND ACADEMIC ACHIEVEMENT IN THESIS RESEARCH PROCESSES: A CASE STUDY IN AN UNDERGRADUATE MANAGEMENT PROGRAM IN PERU M.M. Pasco Dalla Porta, M.R. Lau Barba, M.F. Ponce Regalado, M.M. Pacheco Mariselli	4877
AN EXAMPLE-BASED, UNIFIED PRESENTATION OF FOURIER ANALYSIS TO UNDERGRADUATE ELECTRONIC ENGINEERING STUDENTS G. Pagiatakis, N. Voudoukis, D. Uzunidis	4887
THE IMPORTANCE OF A SIMPLE COMPUTER GAME WHEN CREATING SORTING ALGORITHMS V. Stoffová, L. Végh	4893
EXTENDING COMPUTER GRAPHICS CURRICULUM BY CULTURAL HERITAGE- RELATED ASPECTS - SILK ROAD ARTIFACTS CASE STUDY J. Kęsik, K. Żyła	4900
THE TECHNOLOGY TIPPING POINT IN HIGHER EDUCATION: HOW COVID-19 SPURS NEW APPROACHES TO OUTDATED LEARNING STRATEGIES G. Demiraj	4907
<b>TEACHING CONSTRUCTION AND PROGRAMMING OF ROBOTS IN A DISTANCE</b> <b>FORM</b> V. Stoffová, M. Zboran	4911
TEACHING OPERATING SYSTEMS IN THE ERA OF CORONAVIRUS AND REMOTE WORK - THE CASE OF LUBLIN UNIVERSITY OF TECHNOLOGY J. Kęsik, K. Żyła, M. Pańczyk, M. Tokovarov, T. Szymczyk	4919
SOCIAL MEDIA AND EDUCATIONAL AUTHORITY: THE CASE OF WHATSAPP R. Prins Meler, A. Lev-On, H. Rosenberg	4926
<b>LEARNING SCIENCE IN REMOTE LEARNING: THE LEARNERS' VIEW</b> A. Uukkivi, O. Labanova, V. Retshnoi, E. Safiulina, M. Latynina, A. Eensaar, O. Ovtsharenko, V. Lillemets, R. Timmermann, A. Mishtshenko	4931
<b>BEING A SOCIAL EDUCATOR: PERSONAL AND PROFESSIONAL MOTIVATION</b> A. Camões, R. Machado, C. Vaz, S. Oliveira E Sá	4938
LEARNING IN THE TIME OF CORONA: ONLINE LEARNING IN A PROJECT-BASED LANGUAGE COURSE K. Fujii, E. Inoguchi	4939
AUTOMATED SUBMISSION CHECKING: IMPROVING REMOTE LEARNING ECOSYSTEM FOR PROGRAMMING CLASSES A. Leung, M. Mozgovoy, E. Pyshkin	4946
MULTIMODALITY IN ACADEMIC WRITING CURRICULUM: FROM THE DESIGN TO THE EVALUATION M. Wang, X. Wang, Y. Gao	4952
AN EXPERIMENTAL STUDY ON THE DEVELOPMENT OF PROBLEM SOLVING ABILITY BY USING KNOWLEDGE MAP IN ONLINE TEACHING J. Zhao, S. Liu, X. Hua	4955
<b>EVALUATION OF TEACHING IT SYSTEMS SECURITY TO STUDENTS OF THE LUBLIN</b> <b>UNIVERSITY OF TECHNOLOGY DURING A PANDEMIC</b> <i>M. Barszcz, K. Dziedzic, G. Kozieł</i>	4964
<b>ENHANCING ENGLISH LANGUAGE PROFICIENCY FOR JOURNALISM STUDENTS</b> V.T. Nguyen, T.T.N. Vu, L.V. Hochunskaya	4974
TRANSITIONING ACTIVE LEARNING ONLINE FOR GRADUATE INTERPROFESSIONAL EDUCATION IN HEALTH CARE K. Hoggatt Krumwiede	4978
CREATING COMMUNITY REMOTELY: ENGAGING ACTIVITIES FOR STUDENTS, FACULTY, AND STAFF J. Janecki	4979
<b>ENROLLING HABITS IN HIGHER EDUCATION. WHAT SOURCES OF INFORMATION</b> <b>DO STUDENTS HAVE AND WHAT ARE MISSING?</b> <i>N. Rivas, J. Minguillón, J. Chacón</i>	4980
A PROTOTYPE OF AN ASYNCHRONOUS INTERACTIVE LEARNING SYSTEM FOR SPEAKING PRACTICE Y. Omori, M. Tamura, D. Ikeda	4989

<b>INTEGRATIVE APPROACH TO INTERCULTURAL COMPETENCE DEVELOPMENT</b> R. Safina, O. Amurskaya, R. Salieva	4999
<b>LESSONS LEARNED BY UWC SCHOOLS DURING THE COVID-19 PANDEMIC</b> G.E. Abad Fernández, S.S. Nga Wan, R. Warren	5004
LIKHA! MAHIKA: AN EDUCATIONAL ONLINE COMPETITIVE MOBILE GAME TO HELP FACILITATE THE LEARNING OF BAYBAYIN M.J. Dionio, C.D. Fernandez, P. Feria, L.L. Figueroa, M.R. Solamo	5010
ACADEMIC MOBILITY OF STUDENTS AS A GUARANTEE OF THE QUALITY OF EDUCATION IN COVID TIMES I. Balandina, L. Uzdova, T. Moskvitina, G. Shiganova, M. Zhukova, E. Frolova	5017
THE REASONS FOR MISCOMMUNICATION AND THE WAYS TO AVOID IT IN FRAMES OF THE TRANSITION FROM FACE-TO-FACE TO REMOTE LEARNING: DRAWBACKS AND BENEFITS OF VIDEOCONFERENCING G. Parshutina, S. Polskaya	5022
A CASE STUDY: INTEGRATING BIG DATA TECHNOLOGIES FOR IOT SECURITY INTO EXPERIMENTAL LAB SESSION L. Gotsev, B. Jekov, E. Kovatcheva, R. Nikolov, I. Barzev, E. Shoikova	5028
<b>DATA SCIENCE KNOWLEDGE DEMONSTRATOR LAB DEVELOPMENT</b> L. Gotsev, E. Kovatcheva, B. Jekov, R. Nikolov, A. Peshev, I. Barzev, E. Shoikova	5038
ACADEMIC GUIDANCE OFFERINGS DURING THE COVID-19 PANDEMIC F. Oggionni, F. Zuccoli	5048
AGE SELF-STEREOTYPING AMONG THIRD AGE LEARNERS AS A BARRIER TO FOREIGN LANGUAGE ACQUISITION S. Polskaya, G. Parshutina	5057
<b>STRATEGIES FOR INTEGRATION IN THE CONDITIONS OF INSTITUTIONAL CARE</b> <b>FOR CHILDREN AT RISK</b> <i>D. Stoyanova, V. Vassileva</i>	5063
FACTORS AFFECTING THE CHOICE OF MODES OF LEARNING BY EMPLOYEES TO ACQUIRE DIGITAL SKILLS A. Wong, D. Lee	5071
MATERIAL SELECTION AND NEW DESIGNERS GENERATIONS: HOW TO STIMULATE STUDENTS INTEREST IN MATERIALS WORLD WHEN IN VIRTUAL LESSON MODALITY F. Papile, L. Sossini, R. Santi, B. Del Curto	5078
<b>EFFECTIVE TECHNOLOGIES FOR TEACHING STUDENTS DURING THE COVID</b> <b>PERIOD</b> <i>I. Balandina, L. Uzdova, T. Moskvitina, E. Nikitina, G. Shiganova, K. Shishkina</i>	5088
THE ROLE OF THE MATHEMATICAL SKILLS IN STEM EDUCATION. EXPERIENCE IN THE CONTEXT OF LATVIAN EDUCATION L. Juškaite, B. Lebionkaite, J. Lebionka, A. Šteinberga	5092
PARTNERS IN CRIME: THE PROFESSIONAL DEVELOPMENT OF ADULT EDUCATORS DURING IN-SERVICE TRAINING FOR MASTER TEACHERS O. Schihalejev, A. Org, M. Remmik, M. Vija	5100
IS THE EMERGENCY REMOTE TEACHING EQUAL TO ONLINE LEARNING: A STUDENT SURVEY ON THE QUALITY OF EDUCATIONAL PROCESS DURING LOCKDOWN K. Kacapor, J. Selimovic, E. Mehic, T. Veselinovic	5110
<b>INTERNET OF THINGS AS A CHALLENGE FOR HIGHER EDUCATION</b> <i>M. Charytanowicz, E. Milosz, W. Suszyński, R. Stęgierski, E. Łukasik</i>	5120
<b>FORCED VIRTUALIZATION OF INTERNATIONAL PROJECTS - METHODS, TOOLS,</b> <b>PROBLEMS</b> <i>E. Milosz, M. Charytanowicz</i>	5130
ELECTRONIC LEARNING MODULES FOR MEASURING WORKING ENVIRONMENT FACTORS G. Bánesz, D. Lukáčová, V. Tomková	5137
<b>DEVELOP THE WEB APPLICATION FOR LEARNING ENGLISH VOCABULARY BASED</b> <b>ON COIL METHOD</b> <i>T. Kinoshita, H. Hisamatsu</i>	5143
PLAYFUL EDUCATION IN THE FIELD OF ART, HISTORY AND CULTURAL HERITAGE. A CRITICAL REVIEW OF EMERGING TECHNOLOGIES AND INTERACTION PATTERNS L. Bollini	5148

<b>BLENDED LEARNING: APPLICATION DURING PANDEMIC</b> J.J. Suñol, J. Daza, M. Soler, J. Planella, L. Escoda	5153
AN ANALYSIS OF THE COMPLEX EDUCATION SERVICE FOR RESILIENCE IN A MULTI-CONTEXTUAL FRAMEWORK S. Badawi, L. Carrubbo, M. Dragoicea, L. Walletzký	5159
<b>UNDERSTANDING THE ROLE OF MICRO-INTERROGATION FOR FRAMING</b> <b>ASSIGNMENT FREE MICRO-LECTURES</b> S. Srivastava, T.V. Prabhakar	5169
LINKING ORGANIZATIONAL LEARNING WITH DIGITAL TRANSFORMATION AND ORGANIZATIONAL CULTURE K. Hogberg, A. Hagström	5176
HOW DOES STUDENTS' MOBILITY AFFECT TO THEIR LEARNING OUTCOMES? I. Navarro-Milla, R. Isusi-Fagoaga, A. García-Aracil	5183
THE IMPORTANCE OF PROSPECTIVE MUSIC TEACHERS' FUNCTIONAL SKILLS WHILE LEARNING TO PLAY THE PIANO IN LITHUANIAN AND CHINESE UNIVERSITIES D. Zitkeviciene, R. Li	5188
ONLINE EDUCATION AS AN INTEGRAL PART OF UNIVERSITIES' STRATEGY J. Hvorecký, M. Beňo, R. Janošcová	5197
THE EFFECTS OF THE STUDY FIELD CHOICE ON HIGHER EDUCATION GRADUATES' JOB PERFORMANCE I. Navarro-Milla, A. García-Aracil, R. Isusi-Fagoaga	5206
APPLYING VIDEO GAME IMMERSION AS A VALUABLE TOOL IN TEACHING JAPANESE MIMETIC GITAIGO WORDS S. Zhivkova	5211
EDUCATIONAL APPROACHES FOR CULTURAL DIVERSITY IN SALVADORAN MARGINAL CONTEXTS M.M. Bernabé Villodre	5216
ANALYSIS OF ACADEMIC RESULTS IN THE REPRESENTATION TECHNIQUES COURSE IN THE BACHELOR'S DEGREE IN CIVIL ENGINEERING, AS A RESULT OF THE PROMOTION OF CONTINUOUS EVALUATION A.B. Espinosa González, V. Pérez Ortega, J.R. Gómez Cámara	5225
DIGITAL BORDERS: THE IMPACT OF THE DIGITAL DIVIDE IN THE EDUCATIONAL PROCESS OF MINOR MIGRANTS LIVING IN MARGINALIZED URBAN AREAS R. López-Montero, A. Delgado-Baena, R. Vela-Jiménez, A. Sianes	5231
<b>EXPECTATIONS OF THE FUTURE PHYSIOTHERAPIST IN THE USE OF MUSIC: AN</b> <b>EXPERIENCE OF TRAINING, INNOVATION AND RESEARCH</b> <i>M.M. Bernabé Villodre, V. Martínez-Bello, M. Zarzoso-Muñoz, P. Serra-Añó, M. Aguilar-Rodríguez</i>	5240
DEVELOPMENT OF ONLINE TEACHING DURING CONFINEMENT IN THE COVID-19 CRISIS: CASE OF THE COURSE GEOTECHNICAL ENGINEERING IN THE BACHELOR'S DEGREE IN CIVIL ENGINEERING A.B. Espinosa González, J.R. Gómez Cámara, V. Pérez Ortega	5246
HOP ESpinosa Conzarez, j.H. Comez Camara, V. Perez Orlega HOW DO WE DO WITH DIGITAL TECHNOLOGY? A STUDY ON THE USE OF TECHNOLOGY AND THE SEARCH FOR DIFFERENT TYPES OF CONTENT C. de Aldama, D. García-Pérez, A. Aguirre-Camacho, G. González-Cuevas	5255
IDENTIFICATION OF TEACHERS' APPROACHES TO THE IMPLEMENTATION OF FORMATIVE ASSESSMENT TOOLS IN TEACHING M. Ganajová, A. Lešková, M. Kireš	5262
STRENGTHENING PEDAGOGICAL COMPETENCIES OF VOCATIONAL TEACHERS V. Kirinić, V. Anđelić, Z. Bačelić	5268
<b>THE INTEGRATED CURRICULUM: AN INNOVATIVE PEDAGOGICAL PROPOSAL</b> E. Estrela, R. Serradas, V. Teodoro	5275
THE IMPLEMENTATION OF A NEW SUBJECT "INFORMATICS IN CHEMISTRY" FOR SLOVAK SECONDARY SCHOOLS AIMED AT INFORMATICS M. Ganajová, M. Kožurková	5276
DEVELOPMENT OF CLINICAL CASES AS A STRATEGY OF SITUATED KNOWLEDGE TO ACHIEVE DEEP LEARNING IN PHARMACOLOGY	5283
A. Garcimartín Álvarez, A. García-Aguilar, A. Bocanegra, F. Gómez-Oliver, I. Ureña-Vacas, F.J. Manzano, J.A. Guerra, J.J. Merino, L.M. Bedoya, L. García-García, M.S. Fernández-Alfonso, M.	

Hernández-Martín, E. González-Burgos

<b>TOWARDS ONTOLOGY-BASED SOFTWARE SERVICES FOR TEACHING SCHOOL</b> <b>MATHEMATICS</b> <i>O. Nevzorova, L. Shakirova, M. Falileeva, K. Nikolaev</i>	5288
A CRITICAL ANALYSIS OF EDUCATION IN THE TIME OF GLOBALIZATION FROM A HUMAN RIGHTS PERSPECTIVE: FIGHTING SOCIAL EXCLUSION IN VULNERABLE URBAN CONTEXTS A. Delgado-Baena, R. Vela-Jiménez, R. López-Montero, A. Sianes	5298
BLENDED LEARNING ON EXPERIMENTAL LEARNING OF MAKING MOVIE IMAGES A. Kondo, S. Togawa	5307
FINAL DEGREE PROJECT IN FOOD SCIENCES AND TECHNOLOGY DEGREE: EXPERIMENTAL AND THEORETICAL APPROACH M.D. Rivero-Perez, M. Cavia-Saiz, I. Gómez-Bastida, M. Ortega-Herás, P. Muñiz, M.L. González- SanJosé	5313
TRANSFER LEARNING APPROACH FOR FINDING STUDENT LEARNING STYLE MATCHES IN HETEROGENEOUS VIRTUAL LEARNING ENVIRONMENTS D. Goštautaitė	5319
THE ROLE AND IMPORTANCE OF OUTDOOR LEISURE ACTIVITIES ON THE CHANGE OF VALUES: IMPACTS ON PERSONAL DEVELOPMENT AND EDUCATION L. Trochtová, J. Pospíšil, H. Pospíšilová	5334
<b>CRITICAL THINKING ASSESSMENT OF INTERNET INQUIRY AND ARGUMENTATION</b> <b>IN TEXT GENERATION</b> <i>D. García-Pérez, C. de Aldama, A. Aguirre-Camacho, G. González-Cuevas</i>	5341
THE IMPACT OF DISTANCE TEACHING AND LEARNING ON THE WELL-BEING OF TEACHERS AND STUDENTS IN HIGHER EDUCATION – A SYSTEMATIC REVIEW PROTOCOL OF COVID-19-RELATED RESEARCH J.P. Czakert, G. Paglioli Ballesteiros, R. Berger	5348
<b>DIFFERENT TRAINING OPTIONS IN VIRTUAL LEARNING</b> M. Cavia-Saiz, M.D. Rivero-Perez, G. Gerardi, M. Ortega-Herás, I. Gómez-Bastida, M.L. González- SanJosé, P. Muñiz	5356
WILL DIGITAL PLATFORMS HELP TO BRIDGE THE GENDER GAP IN EDUCATIONAL ACHIEVEMENT BY FOSTERING GROWTH MINDSET? V. Ershova, I. Gerasimova	5363
IN COVID'S TIMES, MAKING A VIRTUE OF NECESSITY: EXPERIENCES AND PERCEPTIONS OF THE STUDENTS IN AN ONLINE PRACTICUM C. Selva Olid, M. Vall-Llovera Llovet, C. Terrado Mejías	5369
QUESTIONS AND ANSWERS STATISTICS AS A WAY TO IMPROVE STUDENTS' ASSESSMENT E. Romero, L. García, J. Ceamanos, L. Lázaro	5378
GAMIFYING THE EARLY LEARNING CAPABILITIES OF STUDENTS DURING COVID- 19	5386
T.M.H.S.M. Pooliyadda, A.D.N. Kurukulasuriya, S.C.P. Peiris, E. Hettiarachchi, K.P. Hewagamage IMPROVING THE QUALITY OF TOOLS FOR EXPERIMENTAL VERIFICATION OF READING COMPREHENSION INTERVENTION PROGRAM EFFICIENCY M. Lalinska, E. Stranovska, Z. Gadusova, M. Kucerkova	5396
<b>ON-LINE PRACTICES IN DIGITAL ELECTRONICS: THE REMOTELAB EXPERIENCE</b> J. Ibáñez Civera, N. Laguarda Miró, L. Gil Sánchez, J.M. Terrés Haro, J. Monreal Trigo, C.A. Olguín Pinatti	5406
THE INTERRATER RELIABILITY OF A SUMMATIVE OBJECTIVE STRUCTURED CLINICAL EXAMINATION IN MEASURING THE HISTORY TAKING SKILL: LESSON LEARNED FROM ATCS CENTER Q.B. Le, T.M.H. Nguyen	5412
MANAGING RESEARCH AND INNOVATION: E-LEARNING TRAINING PROGRAM SUPPORTING MANAGERS TO RE-ENGINEER THE FOOTWEAR SECTOR B. Sarghie, A. Mihai, I. Herghiligiu, A. Seul, A. Baslar	5417
DIGITAL COMPETENCES OF UNIVERSITY EDUCATORS: A COMPARISON STUDY – PART 2 P. Pekker	5425
DIGITAL LEARNING FOR STUDENTS WITH DISABILITIES IN PRIMARY SCHOOL: FROM THE MANAGEMENT OF THE PANDEMIC EMERGENCY SITUATION TOWARDS A NEW NORMALITY M. Montanari, M.A. Santos, A. Third, C. Pellegrini, A. Prasauskiene, S. Lariccia, M. Grammatikou, D.	5429
Pantazatos	

FOREIGN LANGUAGE TEXT COMPREHENSION AND INTERVENTION IN THE EDUCATIONAL PROCESS E. Stranovska, Z. Gadusova, E. Szabo, E. Weiss	5436
INFLUENCE OF HUGGING AND BREATH CONTROL BEFORE EXAMS IN HEALTH	5449
<b>SCIENCES DEGREES</b> R. Mayordomo, L. Martín-Cordero, E. Mingorance-Álvarez, A.M. Pérez-Pico, S. Hidalgo-Ruiz, E. Cubera González, M. Moya Ignacio, M.C. Ledesma Alcázar, P. Alfageme García, E. Escamilla Martínez, E. García-Delgado, R. Martínez Quintana	
REDESIGNING SEMINARS IN THE SUBJECT SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL ETHICS FOR THE NEW ON-LINE HIGHER EDUCATION SCENARIO DUE TO COVID-19	5455
N. Laguarda Miró, J. Ibáñez Civera, L. Gil Sánchez, E. García Breijo, J. Monreal Trigo, J.M. Terrés Haro EDUCATIONAL AND DEVELOPMENT PERSPECTIVE OF STUDENTS IN RURAL AREAS: A SOCIOLOGICAL RESEARCH G. Bandalović, I. Buzov	5461
DEVELOPING SUSTAINABLE BUSINESS MANAGEMENT EDUCATION IN THE CULTURAL SECTOR T. Vuorela, K. Meltovaara, U. Tuominen, O. Bogdanova	5467
<b>DIGITAL SKILLS OF A MODERN FOREIGN LANGUAGE TEACHER</b> M. Petrova, O. Pinigina, B. Xu, B. Xie	5475
INNOVATION PROJECT TO IMPROVE THE QUALITY ASSURANCE PROCESS AND COMPLAINTS MANAGEMENT IN THE SCHOOL OF EDUCATION AT THE COMPLUTENSE UNIVERSITY OF MADRID E. Rodríguez Quintana, L. Serrano	5482
FACE-TO-FACE AND DISTANCE LEARNING S. Baños-Caballero, P. J. García-Teruel, P. Martínez-Solano	5489
APPLYING DEBRIEFING ASSESSMENT FOR SIMULATION IN HEALTHCARE (DASH)© FOR EVALUATING DEBRIEFING COMPETENCE OF FACILITATORS AT CENTER FOR ADVANCED TRAINING IN CLINICAL SIMULATION, VIETNAM Q.B. Le, T.M.H. Nguyen	5494
STRUCTURAL ANALYSIS OF RUSSIAN AND POLISH SYSTEMS OF EDUCATION N. Parkhitko, V. Glebov	5499
ACTIVE METHODOLOGIES FOR DEEP LEARNING IN SUSTAINABLE DEVELOPMENT GOALS	5506
I. Romero, M. Pachés Giner, M.T. Sebastiá-Frasquet, C. Hernández	
FRAMEWORK FOR ASSESSING PEDAGOGICAL SOLUTIONS: EXPERIENCES IN LAUREA'S MASTER'S DEGREE PROGRAMME IN SERVICE DESIGN S. Luojus, S. Kauppinen, P. Tossavainen	5514
USE OF THE CONCEPT OF COMPETENCE IN ADULT EDUCATION IN LATVIA I. Neimane	5521
<b>DEEP LEARNING THROUGH THE CASE METHOD</b> I. Romero, M. Pachés Giner	5527
<b>PLATFORM FOR SELF-LEARNING WEB TECHNOLOGIES</b> M.A. Gherasim, A. Vasilateanu	5537
ATTITUDE OF UNIVERSITY STUDENTS TO PERFORM EXTRACURRICULAR ACTIVITIES IN THE PROMOTION AND IMPROVEMENT OF WELL-BEING AND ACADEMIC WORK M. Moya Ignacio, L. Martín Cordero, R. Mayordomo, E. Cubera González, S. Hidalgo-Ruiz, P. Alfageme García, A.M. Pérez-Pico, M.C. Ledesma Alcázar, E. Mingorance-Álvarez, E. Escamilla Martínez, E. García Delgado, R. Martínez Quintana	5543
COVID-19 PANDEMIC: A THREAT OR AN OPPORTUNITY TO MAKE AN IMPACT ON TEACHING AND LEARNING IN TERTIARY EDUCATION L.P.L. Vrijmoed, P. Hodgson	5549
THE POSITION OF WOMEN IN UNIVERSITY ENGINEERING PROGRAMS: ANALYSIS OF GENDER BIAS AMONG STUDENTS AND TEACHING STAFF R. Pacheco-Torres, M.I. Más-López, E.J. Gago	5557
HOW DOES EXPERIENCE OF ONLINE COLLABORATIVE LEARNING AFFECT THE VIEWS OF TRAINEE TEACHERS IN A CHINESE CONTEXT? M. Lei, J. Medwell, D. Wray	5567
<b>FROM ON-CAMPUS TO ONLINE INSTRUCTION IN POSTGRADUATE BUILT</b> <b>HERITAGE MANAGEMENT STUDIES</b> <i>L. Gilabert-Sansalvador, M.J. Viñals, M.E. Casar Furió, E. Capilla Tamborero, L.F. Herrero García</i>	5577
E. Samoere Sanouronuor, 1911, e nano, 1911. Cubar 1 ario, E. Capita Tanioorero, E.I. 11errero Garcar	

RETHINKING TEACHER EDUCATION DURING THE COVID-19 PANDEMIC IN CROATIA M. Sablić, R. Jukić, S. Kakuk	5587
PRINT OR DIGITAL? AN EXPLORATORY STUDY OF ADOLESCENTS' PREFERENCES FOR TEXT FORMATS IN THE UK AND CHINA X. He, D. Wray	5593
<b>TEACHING INNOVATION RESOURCES AND SATISFACTION WITH THE CHOICE OF</b> <b>MASTER'S STUDIES</b> <i>M. Novo, F. Fariña, V. Marcos, M.J. Vázquez, D. Seijo</i>	5603
<b>TOWARDS MINIMUM VIABLE EDUCATION ANALYTICS</b> R. Kauppinen, A. Lagstedt	5610
GASES IN ACTION AND BIOMOLECULES IN RUNNING: DURING A PANDEMIC PERIOD AND/OR IN THE MODERN TEACHING INNOVATION PROCESS, THE ACTIVITY OF A SCIENTIFIC LABORATORY WITHIN HOME WALLS PLAYS AN IMPORTANT ROLE R. del Gaudio, A. Rambaldi	5617
WAYS TO IMPROVE TEACHERS' PROFESSIONAL PRACTICE ABILITY IN VOCATIONAL COLLEGES IN CHINA B. Wang, G. Gedviliene	5618
GAME-BASED PROGRAMMING IN PRIMARY SCHOOL INFORMATICS K. Czakóová	5627
ACADEMIC EDUCATION AT LIBRARY AND INFORMATION MANAGEMENT WITH REFLECTION TO THE GLAM-SECTOR COLLABORATION M. Modeva, T. Todorova	5633
<b>E-LEARNING PROGRAM FOR 2D/3D CAD DESIGN OF FOOTWEAR SOLES AND HEELS</b> B. Sarghie, A. Mihai, A. Seul	5638
IQLABS: ASSESSING THE TEACHING-LEARNING MODEL OF THE LABORATORY SUBJECTS OF THE CHEMICAL ENGINEERING DEGREE	5646
M.V. Ruano, A.L. Jiménez, P. San Valero, R. Sánchez-Tovar, Á. Robles, J.B. Giménez, M. Izquierdo, F.J. Álvarez-Hornos, L. Borrás, N. Martí, J.P. Cerisuelo, J. Ribes, R. Sanchis, R. Fernández, L. Pastor, Ó. Gil- Castell, M.D. Hernáiz-Pérez, P.J. Miguel, A. Cháfer, J.D. Badia	
<b>ITERATIVE USER-CENTERED DESIGN APPROACH TO CREATE A MIXED REALITY</b> <b>APPLICATION FOR PRACTICING MANUAL MEDICINE SKILLS</b> <i>A. Makhkamova, O. Gast, D. Werth</i>	5650
CONSIDERATION FOR ASSESSMENTS AND FEEDBACK OF REFLECTIONS BASED ON THE TAXONOMY OF REFLECTION IN A CONTEXT OF E-PORTFOLIO LEARNING S. Kubota, M. Miyazaki, R. Matsuba	5658
LEARNING FROM AND WITH AI IN THE WORKPLACE - A CASE STUDY OF A HOTEL ORGANIZATION K. Hogberg	5663
INTERDISCIPLINARY APPROACH IN LANGUAGE TEACHING: USING ART AND HISTORY M. Pappa	5671
VIRTUALCHENG: ANALYSIS AND NEW STRATEGIES FOR VIRTUAL LEARNING IN CHEMICAL ENGINEERING DEGREE P. San Valero, F.J. Álvarez-Hornos, J.P. Cerisuelo, A. Cháfer, R. Fernández, J.B. Giménez, M.D. Hernáiz- Pérez, M. Izquierdo, A.L. Jiménez, N. Martí, P.J. Miguel, R. Sánchez-Tovar, Á. Robles, M.V. Ruano, R. Sanchis, J. Ribes, J.D. Badia	5676
FLIPGRID AND PADLET AS EDUCATIONAL TECHNOLOGY RESOURCES IN PRE- PRIMARY AND PRIMARY DISTANT LEARNING CONTEXTS. THEIR USABILITY ACCORDING TO THE BELIEFS OF PROSPECTIVE TEACHERS J. Fernández Molina, C. Mateo-Guillén	5677
<b>TEACHING FROM DISTANCE - PRACTICES AND CHALLENGES IN UNIVERSITY OF</b> <b>TARTU</b> <i>M. Remmik, H. Urmann, E. Tubelt</i>	5684
M. Remmuk, H. Cirmann, E. Tuben <b>PUBLIC UNIVERSITY LIBRARIES AND SOCIAL MEDIA: SOME KEY ISSUES DERIVED</b> <b>FROM TWITTER ANALYSIS</b> B. Tubillejas-Andrés, A. Cervera-Taulet, H. Calderón García	5692
B. Tubliejas-Anares, A. Cerbera-Tauler, H. Calderon Garcia USE OF ADVANCED NATURAL LANGUAGE PROCESSING TECHNIQUES FOR THE AUTOMATIC RECOMMENDATION OF REINFORCEMENT ACTIVITIES L. Plaza, L. Araujo, F. López Ostenero, J. Martínez Romo	5699

DEVELOPMENT IN SECURITY EDUCATION IN SLOVAK REPUBLIC OVER LAST 20 YEARS M. Hromada, J. Valouch	5706
STUDENTS' ENGLISH SPEECH TRAINING: EFFECTIVE TECHNIQUES I. Kondrateva, D. Sabirova	5713
A CASE STUDY: DEVELOPING COMPETENCES OF A FOREIGN LANGUAGE WITH TUIS (TTIS, TELECOMMUNICATION TRAINING AND INFORMATION SYSTEM) IN THE RUDN UNIVERSITY K. Mohsen, A. Yi	5718
BIOLOGY LABORATORY@HOME OR CLASSROOM: RING A SCIENTIST! A CHALLENGE ACHIEVED FOR TEACHING BEYOND DISTANCE! R. del Gaudio	5724
E-LEARNING IN THE CONDITIONS OF THE UNIVERSITY OF ŽILINA DURING THE CORONAVIRUS PANDEMIC D. Koncova, I. Kremenova	5725
<b>NEW TRENDS AND CHALLENGES IN SECURITY RESEARCH</b> J. Valouch, M. Hromada	5732
LANGUAGE SITUATION IN THE MULTICULTURAL EDUCATIONAL SPACE OF THE REPUBLIC OF GHANA I. Kondrateva, D. Sabirova	5739
<b>AHP-BASED SOFTWARE FOR STUDENTS' SELF-ASSESSMENT OF CRITICAL</b> <b>THINKING CAPACITY</b> J. Salas, L. Sierra, V. Yepes	5744
<b>THE EVERYDAY LIFE IN THE SIMS 4 DURING A PANDEMIC. A LIFE SIMULATION AS A VIRTUAL MIRROR OF SOCIETY?</b> <i>S. Wimmer, A. Pfeiffer, N. Denk</i>	5754
ONLINE TEACHING GEOMETRY AT UNIVERSITY I. Katreničová, J. Čabala	5761
LINKING MASTER FINAL PROJECTS TO INDUSTRY MATTERS AS A WAY TO INITIATE UNIVERSITY/INDUSTRY COLLABORATIONS D. Sales, J.J. Martínez, P. Remigio, N. Baladés, M.A. Fernández-Ruiz, D. Moreno Nieto, J.M. López, F. Simón, M. Tuite, S.I. Molina	5766
GEOMETRY IN THE TRAINING OF MATHEMATICS TEACHERS AT SLOVAK UNIVERSITIES I. Katreničová, J. Čabala	5767
EDUCATIONAL ASPECT OF MODERN MOBILE APPLICATIONS INTENDED FOR TYPE 1 DIABETES THERAPY SUPPORTING T. Nowicki, M. Badurowicz	5772
ON THE USE OF ESPORTS IN EDUCATIONAL SETTINGS. HOW CAN ESPORTS SERVE TO INCREASE INTEREST IN TRADITIONAL SCHOOL SUBJECTS AND IMPROVE THE ABILITY TO USE 21ST CENTURY SKILLS? S. Wimmer, N. Denk, A. Pfeiffer, M. Fleischhacker	5782
<b>ESRA, AN EDUCATIONAL SOFTWARE FOR INTRODUCING STOCHASTIC</b> <b>SCHEDULING TO CIVIL ENGINEERING STUDENTS</b> <i>J. Salas, L. Sierra, V. Yepes</i>	5788
DISTANCE LEARNING DURING COVID-19 PANDEMICS – AN EXAMPLE FROM SLOVAKIA S. Barnová, S. Krásna, G. Gabrhelová	5799
THE IMPACT OF SOCIAL MEDIA COMMUNICATION PATTERNS ON TEACHING ENGLISH LANGUAGE ONLINE N. Mammadova	5804
INNOVATIVE TEACHER EDUCATION THROUGH PERSONALISED LEARNING: DESIGNING TEACHING AND LEARNING SCENARIOS S. Alisauskiene, L. Kaminskiene, L. Milteniene, R. Meliene, A. Rutkiene, A. Kazlauskiene, A. Siriakoviene, S. Kontrimiene, V. Venslovaite, C. O'Mahony, L. Lee, H. Guðjónsdóttir, J.V. Kristinsdóttir, A.K. Wozniczka	5809
CHALLENGES AND PERSPECTIVES FOR PRACTICING STUDENT'S TRAINING IN REAL WORK ENVIRONMENT E. Savova, S. Eftimova	5819
THE CHALLENGES OF TEACHING ENGLISH LANGUAGE ONLINE TO PEOPLE WITH DOWN SYNDROME N. Mammadova, E. Gabarta	5826

THE PHILOSOPHY OF MODERN DIGITAL VOCATIONAL EDUCATION IS NOT A PRIVILEGE, BUT AN ONTOLOGICAL NEED AND NECESSITY FOR THE MARKET R. Vasileva, I. Yankova, K. Ivanova	5831
ANALYSIS OF STUDENTS 'ATTITUDES OF PREGRADUAL TEACHER TRAINING FOR DISTANCE LEARNING DURING THE COVID-19 PANDEMIC PERIOD E. Tóblová, A. Poliaková, B. Jaslovská	5841
TEACHING AND LEARNING WITH HUMANOID SOCIAL AND SERVICE ROBOTS IN HIGHER EDUCATION -LEARNINGS FROM SERVICE DESIGN AND IT FRAMEWORK USE CASE DEVELOPMENT MODULES C. Tigerstedt, D. Biström	5850
FORMATION AND DEVELOPMENT OF INFORMATION AND EDUCATIONAL SPACE IN LIBRARIES IN PANDEMIC CONDITIONS E. Savova	5860
<b>ESCAPE ROOM AS A TOOL TO IMPROVE THE MOTIVATION AND COMMITMENT OF</b> <b>STUDENTS</b> <i>E. Martín-González, M. Godoy-Giménez, P. Fernández-Martín, J. León, A. González-Rodríguez, S.</i>	5868
Mora, A. Sánchez-Kuhn, I. Carmona, Á. García-Pérez, P. Flores Cubos, A.F. Estévez, M. Moreno PROGRESSING FROM THE EMERGENCY TO THE OPTIMUM IN ONLINE LEARNING: THE SWITCH TO DIGITAL LEARNING IN HIGHER EDUCATION DURING THE ONGOING PANDEMIC CRISIS	5874
M. Grammatikou, M. Montanari, D. Pantazatos, I. Barth, A. Third, S. Lariccia, V. Maglaris	
EDUCATION FOR PRACTICE: RESULTS OF THE ANALYSIS OF ATTITUDES OF STUDENTS AND EMPLOYERS ON THE IMPORTANCE OF INTERNSHIP IN HIGHER EDUCATION INSTITUTIONS IN ENGINEERING S. Tišma, S. Kalambura, H. Meaški, K. Horvatinčić, A. Farkaš, A. Ruk	5881
<b>LEGO®-BASED PRACTICAL EQUIPMENT FOR TEACHING ELECTRONIC</b> <b>INSTRUMENTATION AND INDUSTRY 4.0 CONCEPTS</b> <i>L. Del Horno, J.A. Somolinos, E. Segura, R. Morales</i>	5887
WHAT ARE THE BARRIERS FOR TEACHING COMPUTATIONAL THINKING? M. Muilu, S. Mehtälä, J. Pawlowski, D. Dimitrakopoulou, M. Pilv, K. Clements, M. Idzik	5895
EXAMINING THE IMPACT OF A NEXT GENERATION DIGITAL LEARNING ENVIRONMENT (NGDLE) IN HIGH SCHOOL STUDENTS BEFORE AND DURING THE COVID-19	5902
D. Pantazatos, M. Grammatikou, M. Montanari, S. Lariccia, G. Cibulskis, V. Maglaris GREEN CERTIFIED SCHOOLS, ARE THEY REALLY THE MOST SUSTAINABLE ONES?	5910
D. Grimaldi, B. Derqui	3910
<b>E-CO-FOOT - ECOLOGICAL FOOTPRINT ONLINE TRAINING AND CALCULATOR</b> F. Niederl, V. Besse, P. Bußwald, B. Kraml	5916
ASSESSMENT OF STUDENTS IN THE USE OF MATLAB GUIDE TEMPLATES FOR SOLVING MATERIAL BALANCES. A TEACHING EXPERIENCE IN CHEMICAL ENGINEERING DEGREE I. Dominguez-Candela, S. Cardona, J. Lora, M.F. López-Pérez, V. Fombuena	5926
EXPLORING PREDICTORS OF HIGHLY EFFECTIVE TEACHER: A CONCEPTUAL	E024
<b>FRAMEWORK</b> B. César, D. Soares, R. Castro	5934
VIRTUAL REALITY AND AUGMENTED REALITY IN EDUCATIONAL AND TRAINING ORGANISATIONS: THE PERSPECTIVE OF HUMAN RESOURCES PROFESSIONALS C. Fernandes, V. Meirinhos, A.C. Rodrigues	5946
<b>DESIGN OF A VIRTUAL LABORATORY AND A SET OF PRACTICAL SESSIONS IN</b> <b>STATE-SPACE CONTROL</b> <i>M. Flores, L. Payá, D. Valiente-Garcia, M. Ballesta, O. Reinoso</i>	5953
WRITING CHALLENGES AND USEFUL STRATEGIES: AN INVESTIGATION OF THE EXPERIENCES OF INTERNATIONAL UNDERGRADUATE STUDENTS IN THE CANADIAN ACADEMIC CONTEXT <i>R. Jabeen</i>	5962
<b>PROJECT-BASED LEARNING AS A COORDINATION METHODOLOGY BETWEEN</b> <b>SUBJECTS IN A CHEMICAL ENGINEERING DEGREE</b> <i>C. Carbonell, S.C. Cardona, I. Dominguez-Candela, V. Fombuena, M.F. López-Pérez, J. Lora, R. Sanchis</i>	5965
THE USE OF KAHOOT! TO ASSESS CONCEPTUAL KNOWLEDGE IN GENERAL PATHOLOGY IN THE DEGREE OF PHYSIOTHERAPY. A PILOT STUDY M. Zarzoso-Muñoz, C. Calvo, A. Bizy, M.M. Bernabé Villodre, L. Such-Miquel	5975

<b>PERSONALITY OF AN EFFICIENT VOLUNTEER WORKING WITH ORPHANED TEENAGERS</b> N. Iskra, T. Dorefeeva	5979
ICT TOOLS AND LEARNING ANALYTICS TOWARDS IMPROVING THE COMPREHENSION AND QUANTIFICATION OF AUTONOMOUS NEUROMODULATION OF CARDIOVASCULAR ADAPTATION IN E-HEALTH AND MEDICAL STEM COURSES C. Calvo, A. Bizy, L. Such-Miquel, M. Zarzoso-Muñoz	5988
<b>EFFECTIVE COMMUNICATION PRACTICES IN DIGITAL CURRICULUM</b> J. Škoda, T. Baksa, L. Luić	5995
SURVEY OF POTENTIAL BENEFITS OF MIXED REALITY (MR) APPLICATIONS IN DIFFERENT FIELDS OF EDUCATION DURING WORLD LOCKDOWN B. Ivanova, R. Rusev	6003
AMBIENT LEARNING SPACES: A CONNECTING LINK BETWEEN DIGITAL TECHNOLOGIES AND COMPUTER-SUPPORTED PEDAGOGY M. Herczeg, A. Ohlei, T. Schumacher	6011
USING AND ANALYSIS OF COLLABORATIVE TECHNIQUES AND RAPID RESPONSE DEVICES IN A SUBJECT IN THE DEGREE OF MECHANICAL ENGINEERING AT DEFENSE UNIVERSITY CENTER OF MARIN V. Alfonsin, R. Maceiras, L. Gonzalez, F.J. Rodriguez	6022
<b>TUTORS IN TIMES OF COVID-19: THEIR ROLE IN LIGHT OF CONSTRAINTS AND</b> <b>OPPORTUNITIES</b> <i>F. Zuccoli, C. Annovazzi, D. Meneghetti, R. Rella, E. Camussi</i>	6028
EDUCATIONAL ATTITUDES BROADCASTED BY OPINION LEADERS TO YOUNG PEOPLE ON SOCIAL NETWORKS E. Kuznetsova, E. Zinovyeva, N. Iskra	6037
NEW TEACHING APPROACH: POSTMODERN TEXT AS A MEANS TO MASTER THE LANGUAGE P. Povalko	6044
DIGITAL SPATIAL MOODS SPACE IN DIGITAL ENVIRONMENTAL AS DESIGN TOOL FOR FASHION AND COMMUNICATION PROJECTS V. Linfante, V.M. Iannilli	6045
THE ROLE OF FOREIGN LANGUAGE TEACHERS IN THE PROCESS OF THE DEVELOPMENT OF CRITICAL THINKING SKILLS OF UNIVERSITY STUDENTS N. Plotnikova, N. Sigal	6046
DISASSEMBLING FASHION DECODING VISUAL AND STYLISTIC CODES AS LEARNING BY DOING TOOL FOR COURSES IN FASHION COMMUNICATION V. Linfante, V.M. Iannilli	6052
ADAPTATION OF TEACHING METHODOLOGIES DURING COVID-19 CRISIS SITUATION L. Gonzalez, V. Alfonsin, R. Maceiras, A. Gonzalez	6058
AN ONLINE DELPHI STUDY TO VALIDATE THE CANMEDS COMPETENCE FRAMEWORK TO SUPPORT WORKPLACE LEARNING IN UNDERGRADUATE HEALTHCARE EDUCATION IN FLANDERS O. Janssens, M. Embo, L. Haerens, M. Valcke	6065
VALIDATING A COMPETENCY FRAMEWORK FOR PAEDIATRIC POST-GRADUATE EDUCATION M. Robbrecht, M. Embo, M. Van Winckel	6066
NEW PRACTICAL APPROACH TO CIRCUIT ANALYSIS IN DUAL-MODE TEACHING M. Ballesta, M. Flores, L. Payá, O. Reinoso	6067
VIDEOEDIT: AN EASY-TO-USE WEB-BASED VIDEO CREATION TOOL FOR THE CLASSROOM A. Ohlei, T. Schumacher, M. Herczeg	6076
A STATE-OF-THE-ART REVIEW ABOUT EPORTFOLIO USE IN 8 UNDERGRADUATE HEALTHCARE EDUCATIONAL PROGRAMS O. Janssens, M. Embo, L. Haerens, M. Valcke	6086
COMBINED USE OF QUCS AND OCTAVE FOR TEACHING CIRCUITS IN NON- SPECIALIST HIGH SCHOOLS OF ENGINEERING L. Del Horno, J.A. Somolinos, E. Segura, R. Morales	6087
GENDER AND JOURNALISM EDUCATION: UNDERGRADUATE STUDENTS RESPONSES TO THE GLOBAL MEDIA MONITORING PROJECT	6095

R.B. Simões, I. Amaral, S. Santos

ADAPTATION AND LATENCY IN TIMES OF CRISIS - CHANGES IN IT IN HIGHER EDUCATION B. Zulauf, N. Knipprath, T. Koch, E. Reidt	6100
TECHNICAL LANGUAGE USED TO ACCOMPLISH RHETORICAL STRATEGIES BY PROLIFIC ENGINEERING WRITERS IN WRITING RESEARCH ARTICLES I. Suryani, N. Ghazali, A. Norkhairi, F. Zubir	6110
<b>LEARNING ONLINE ABUSE DETECTION AND PREVENTION THROUGH INFORMAL</b> <b>EDUCATION</b> <i>R.B. Simões, S. Santos, I. Amaral</i>	6115
<b>POSING MATHEMATICAL PROBLEMS: ANALYSIS OF A TASK WITH FUTURE</b> <b>TEACHERS</b> <i>A.P. Aires, M.M. Nascimento, P. Catarino</i>	6120
<b>REPLANNING AN EXPERIMENTAL PROJECT FROM THE MIDDLE: THE NECESSITY OF</b> <b>RESULTS AND THE LACK OF TIME</b> <i>H. Oliver-Ortega, F.X. Espinach, J.A. Méndez</i>	6128
LANGUAGE SPACE FORMED BY EDUCATIONAL SYSTEMS I. Kazakova, V. Shakhnazaryan	6134
<b>A COMPARATIVE STUDY OF ENGLISH AND MALAY PROVERBS</b> N. Ghazali, I. Suryani, F. Zubir, H. A. Hamid, M. Chulan, N.A. Rosaidi, N.A. M. Radzi	6140
ANALYSIS OF THE AUGMENTED REALITY APPLICATION TO IMPROVE THE LEARNING PERFORMANCE FOR SCHOOL STUDENTS IN ECUADOR A. Carrera Rivera, J. Samaniego Villarroel, S. Vasconez Miranda, A. Mayorga Alban, D. Valencia Ruiz	6144
<b>TEACHING EXPERIENCES FOR IMPROVING STUDENTS' ENVIRONMENTAL</b> <b>AWARENESS</b> <i>R. Franchino, C. Frettoloso, G. Guida, N. Pisacane</i>	6149
<b>LEADERSHIP SKILL ASSESSMENT: STUDENT LEADERSHIP PRACTICES INVENTORY</b> <b>APPLICATION IN A SPANISH MARKETING COURSE</b> <i>A. Baviera-Puig, C. Escribá-Pérez, T. Baviera</i>	6159
YOUTUBE GENERATION: STUDY OF KIDS YOUTUBERS' CHANNELS IN THE ANDEAN COMMUNITY A. Beltrán-Flandoli, C. Rodríguez, D. Rivera-Rogel	6166
E-LEARNING AND DEVELOPING INTERCULTURAL COMMUNICATIVE COMPETENCES IN THE ENGLISH LANGUAGE DURING THE COVID-19 QUARANTINE: TOURISM STUDENTS' FEEDBACK AND RECOMMENDATIONS Z. Sandorova, N. Betak	6174
AN INTENSIVE PROJECT BASED LEARNING EXPERIENCE IN PROGRAMMING AND ELECTRONICS INVOLVING HETEROGENOUS GROUPS OF STUDENTS WITH DIFFERENT BACKGROUNDS A. Perez-Serrano, M.A. Geday, X. Quintana, F.J. Lopez Hernandez	6183
PARAMETRIC MODELING AND REMOTE TEAMWORK: AN EDUCATIONAL EXPERIENCE	6189
R. Franchino, C. Frettoloso, N. Pisacane GOVERNANCE ASSESSMENT: A CASE STUDY IN THE PUBLIC UNIVERSITY OF ECUADOR X. Peralta, W. Morquecho, A. Briozzo	6198
<b>TEACHER TRAINING AND TEAM WORKING TO INNOVATE TEACHING</b> <i>M. De Mauro, D. Amendola, M. Angeletti, G. Gabrielli, A.M. Eleuteri</i>	6207
VIRTUAL TEACHING DIGITAL HISTOLOGY IN THE DEGREE OF BIOCHEMISTRY DURING COVID-19 ERA	6215
R.M. Sanchez-Varo, J.J. Fernandez-Valenzuela, J.M. Paz-Garcia, P.D. Franco-Caballero, A. Gutierrez ONLINE LEARNING DURING COVID-19 LOCKDOWN: A STUDY REGARDING PORTUGUESE PUBLIC HIGHER EDUCATION STUDENTS N.S. Morais, R. Raposo, V. Roque, F. Roque	6224
PATRIOTISM AS SEEN BY ECOLOGY STUDENTS Y. Zakirova, A. Lazareva, V. Glebov	6230
INTERIOR DESIGNOLOGY AS WELLBEING SUPPORT FOR THE EDUCATIONAL ENVIRONMENTAL IN CRISIS TIME N. Abdelaziz	6236
PROFESSORS OF THE THIRD AGE AND THEIR INNOVATIVE ACTIVITY IN UNIVERSITIES E. Shuklina, E. Shirokova	6243

ANALYSIS OF DIGITAL LITERACY OF PEDAGOGY DEGREE STUDENTS AT PRE- COVID ERA. WERE THEY PREPARED? P.D. Franco-Caballero, J.M. Paz-Garcia, R.M. Sanchez-Varo, J.J. Fernandez-Valenzuela	6248
LIMITLESS LEARNING, ACTIVE BLENDED LEARNING AND THE PANDEMIC: USING TECHNOLOGY TO ENABLE STUDENT LEARNING IN IN-CLASS, ONLINE, AND HYBRID UG CLASSROOMS S. Cassar, M. Neal, C. Schofield	6252
TRUST IN THE INSTITUTE OF HIGHER EDUCATION: A WAY TO THE EDUCATIONAL SUCCESS OF STUDENTS E. Shuklina, E. Shirokova	6262
INFLUENCE OF PERCEPTUAL ATTRIBUTES OF AUDITORY STIMULI ON THE OUTCOME OF COMMUNICATION PROCESS IN CHILDREN WITH ATTENTION DEFICIT DISORDER E. Brlek, M. Milkovic, L. Gotal Dmitrovic	6268
MOVING FORWARD TOWARDS REMOTE LEARNING OF IT IN TIMES OF PANDEMIC C. Madureira, F. Polonia	6276
STRATEGIES AND FACTORS OF DIGITAL RESOURCES ADOPTION BY RUSSIAN SCHOOL TEACHERS: THE CASE OF YANDEX.TEXTBOOK A. Kotlikova, K. Adamovich	6283
<b>THE TEACHING EXPERIENCE OF PORTUGUESE HIGHER EDUCATION PROFESSORS</b> <b>DURING THE COVID-19 PANDEMIC LOCKDOWN IN PORTUGAL</b> V. Roque, F. Roque, R. Raposo, N.S. Morais	6291
PRESCHOOL HOMETEAMS: INNOVATION TO ACHIEVE THE CORRESPONDING OUTCOMES AND INTEGRAL DEVELOPMENT OF PRESCHOOLERS AS AN ANSWER TO COVID-19 CHALLENGES M.F. Flores-Munguía, J. Fernández-de-Castro	6299
AN EXPERT FACULTY EXAMINER SURVEY ON THE USEFULNESS AND BENEFITS OF AN IN-HOUSE DEVELOPED OSCE AUDIO-VISUAL MONITORING SYSTEM FOR THE TRAINING AND ASSESSMENT OF CLINICAL COMPETENCE T.A. Pham, T.M.H. Nguyen, H. Ho	6309
<b>SOMETHING: SUITABILITY OF A DIDACTIC INTERVENTION WITH APPLETS IN THE</b> <b>SECONDARY EDUCATION</b> <i>S. Raposo, M.M. Nascimento, A. Martins, A. Estrada, C. Costa</i>	6315
EXPERIENCE OF INCORPORATING RUSSIAN CULTURE INFORMATION INTO A RUSSIAN LANGUAGE TEXTBOOK V. Golovatina	6326
<b>BEYOND PROFESSIONAL NOTICING</b> <i>M. Myers</i>	6333
<b>DESIGN AND IMPLEMENTATION OF A PERSONALIZED DIGITAL LEARNING MODEL</b> L. Shakirova, M. Falileeva, O. Nevzorova, K. Nikolaev	6340
SOOKSHM VYAAKHYAAN: A DESKTOP APPLICATION FOR FRAMING MICRO- INTERROGATION BASED MICRO-LECTURES S. Srivastava, T.V. Prabhakar	6349
<b>PROFESSIONAL DEVELOPMENT FOR HIGHER EDUCATION TEACHING STAFF: AN</b> <b>EXPERIENCE OF PEER LEARNING IN A PORTUGUESE POLYTECHNIC</b> <i>M. Figueiredo, R. Matias, V. Alves, N. Bastos, R.P. Duarte, B. Ferreira, C. Cunha</i>	6356
ENTRY PHASE FOR ENGINEERING STUDENTS WITH INTERDISCIPLINARY PROJECTS DURING THE SEMESTER S. Fincke	6362
EDUCATION FOR SUSTAINABLE DEVELOPMENT. TAKE ACTION, WHAT CAN WE DO?	6372
G. Jiménez-Castillo, A.J. Partal-Ureña, J.I. Fernández-Carrasco, F.J. Muñoz-Rodríguez, L. Hontoria	
HEALTH BENEFITS OF INNOVATIVE EDUCATIONAL METHODS FOR UNIVERSITY STUDENTS R. Lenková, I. Boržíková	6377
INTERIOR DESIGN PROJECT'S CONCEPT LEADING TO MATERIAL SCHEMES IN UNDERGRADUATE STUDIES G. Elsayed Ali Elsamanoudy	6384
CHANGES IN THE LIFESTYLE AND PHYSICAL ACTIVITY OF SLOVAK UNIVERSITY STUDENTS THROUGH THE COVID 19 PANDEMIC I. Boržíková, R. Lenková	6391

<b>TEACHING FILM TITLES TRANSLATION: MOST CURRENT STRATEGIES</b> O. Palutina, A. Ismagilova, N. Bagmanova, S. Pupyreva	6399
THE CONSOLIDATION OF THE EUROPEAN HIGHER EDUCATION AREA THROUGH THE CHALLENGE-BASED LEARNING METHODOLOGY S. Sousa Santos, S. Marcos Alsina	6403
EXPERIENCES WITH BASIC TEACHING CONCEPT FOR ENGINEERING STUDENTS IN THEIR STUDY ENTRY PHASE S. Fincke	6410
INNOVATIVE PROJECTS IN PORTUGUESE SCHOOLS: POLICIES, GUIDELINES AND PROJECTS M. Carvalho, D. Soares, C. Palmeirão	6411
THE CHALLENGE OF CREATING THE OPENLANG NETWORK ONLINE OPEN DATABASE OF 24 EUROPEAN LANGUAGE PLACEMENTS TESTS M. Perifanou, P. Kosmas, A. Parmaxi, A. Economides	6415
<b>INNOVATION AT PORTUGUESE SCHOOLS: FROM INTENTIONS TO PRACTICES</b> D. Soares, M. Carvalho	6425
<b>STARTING OVER: FACTORS IN THE ATTITUDE TOWARDS STATISTICS IN</b> <b>PORTUGUESE TEACHERS</b> <i>A. Martins, A. Estrada, M.M. Nascimento</i>	6430
A VIRTUAL CLASSROOM FOR ARCHITECTURAL COMPOSITION SUBJECT: A REFLECTION ABOUT OPPORTUNITIES AND LIMITS V. Cristini, L. García, Y. Hernandez, J.L. Baró, M. Diodato, F. Vegas	6441
DIGITAL GAP BETWEEN RUSSIAN SCHOOLS AND ITS CONSEQUENCES FOR STUDENTS' LEARNING OPPORTUNITIES DURING CORONA CRISIS K. Adamovich	6446
<b>TEACHING BRITISH AND AMERICAN VARIANTS IN TRANSPORTATION TERMINOLOGY</b> E. Dmitrieva, I. Grubin	6452
DIGITAL EDUCATION PLATFORMS IN ENGINEERING: TEACHING AND RESEARCHING M. Pachés Giner, I. Romero	6457
CHALLENGE BASED LEARNING (CBL): A RESILIENT METHODOLOGY IN TIMES OF COVID-19 S. Sousa Santos, S. Marcos Alsina, F. Cortellese, M. Casado Claro	6465
S. Sousa Samos, S. Wartos Aisma, F. Correctes, W. Casado Carlo SOCIAL NETWORKS AS STUDY TOOLS AT LESSONS OF THE SPANISH LANGUAGE O. Palutina, A. Ismagilova, S. Pupyreva, N. Bagmanova	6476
SÉANCES, ENGAGEMENT AND BLENDED LEARNING - OBSERVATIONS ON REMOTE LEARNING DURING THE COVID-19 PANDEMIC M. Badurowicz, S. Skulimowski, T. Nowicki	6480
LANGUAGE INTEGRATED AND CRITICAL DIGITAL LEARNING: FACE-TO-FACE AND TELEMATIC TEACHING IN ARCHITECTURAL COMPOSITION SUBJECTS V. Cristini, L. García, M. Diodato, C. Mileto, F. Vegas	6487
DIGITAL TOOLS FOR ENHANCING ONLINE FLIPPED LEARNING T. Havránková	6492
<b>FORMATION OF LINGUISTIC PROFESSIONAL COMPETENCE IN THE FRAMEWORK</b> <b>OF HIGHER EDUCATION</b> <i>E. Komleva, D. Miroshnikova, K. Gerasimova, S. Tleusheva</i>	6500
HOW TO SUCCESSFULLY ORGANIZE A MEDIA PROJECT IN A PEDAGOGICAL MAKERSPACE FOR STUDENT TEACHERS A.L. Max, S. Lukas, H. Weitzel	6511
ORGANIZATION OF LISTENING WHEN LEARNING FOREIGN LANGUAGES USING INFORMATION EDUCATIONAL RESOURCES A. Egorova, O. Mozgovaya	6518
COMPLEX DATA ANALYSIS IN PREDICTING STUDENT SUCCESS DURING IN-HOUSE VOCATIONAL TRAINING OF TECHNICAL PERSONNEL D. Dobrenko, N. Dobrenko, M. Suzdaltseva, A. Shamakhova, N. Gusarova, A. Aksenova, A. Gogoberidze	6525
TRAINING BY PLAYING. THEATRE AS A MEANS OF TEACHERS' PREPARATION FOR CITIZENSHIP EDUCATION F. Fabbro, M. Ranieri	6535
<b>INNOVATIVE METHODS OF TEACHING ENGLISH GRAMMAR FUNCTIONALLY</b> E. Komleva, E. Gorshkova, A. Koblova, I. Turetskova	6540

<b>DEVELOPMENT OF AN ADAPTIVE LEARNING MODEL BASED ON DIGITAL</b> <b>TECHNOLOGIES AND THE WORK OF THE TEACHER</b> <i>N. Goncharova, L. Daineko, V. Larionova</i>	6549
<b>CURRICULA DEVELOPMENT BASED ON THE SEMANTIC NETWORK (ONTOLOGY)</b> E. Nikitina, E. Smirnova	6559
EDUCATION, DIGITAL TECHNOLOGIES AND THE COVID-19 PANDEMIC: AN ACCOUNT OF A FOREIGN STUDENT'S EXPERIENCES IN ITALY M. Pivetta da Silva, M. Kaschny Borges, M. Ranieri	6566
USE OF TECHNOLOGY FOR RESEARCH AND PEDAGOGICAL PURPOSE IN STEM EDUCATION: A TEN YEARS REPORT L. Trudel, A. Métioui	6574
BENEFITS, IDENTITY AND VALUES. DISCUSSING THE PERCEPTIONS OF HIGHER EDUCATION STUDENTS ABOUT BEING PART OF EUROPE S. Santos, I. Amaral, I. Camisão	6583
ON THE DELIVERY OF SOFTWARE DEVELOPMENT AND DATA SCIENCE RELATED COURSES IN BLENDED AND HYBRID FORMATS B. Mihaljević, M. Žagar, A. Mutka, D. Tolić	6590
<b>IS GAME-BASED LEARNING EFFECTIVE IN PROMOTING FINANCIAL LITERACY?</b> <b>OPPORTUNITIES AND CHALLENGES</b> J. Reuter, M. Ferreira Dias, M. Amorim, M. Madaleno, E. Vieira, D. Magueta	6601
DIGITAL STORYTELLING, CREATING BRAND COMMUNITY WITH HIGHER EDUCATION STUDENTS M. Pérez-Sánchez, J. Casanoves-Boix, A. Flores-Meza	6611
IMPLEMENTATION OF A MULTIMODAL AND INTERACTIVE E-BOOK IN PSYCHOLOGY OF LEARNING AND CONDITIONING A. Sánchez-Kuhn, J.J. León, P. Fernández-Martín, P. Flores Cubos	6616
DISTANCE ASSESSMENT METHODS OF STUDENTS' KNOWLEDGE OF THE EXACT DISCIPLINES IN A TECHNICAL UNIVERSITY A. Egorova, T. Egorova, T. Shaposhnikova	6624
ANALYSIS OF THE CURRENT SITUATION AND TREND OF ETHNIC EDUCATION INFORMATIONIZATION RESEARCH IN CHINA VISUAL ANALYSIS BASED ON CITESPACE ATLAS Z. Liu, M. Fan	6630
IMPLEMENTATION OF EUROPEAN QUALITY STANDARDS OF HIGHER EDUCATION IN THE CONDITIONS OF A SLOVAK UNIVERSITY M. Kincl, M. Rostasova	6638
MODULARIZATION OF ENGINEERING CONTENT ADAPTED TO SOCIAL NETWORK L.I. Hojas Hojas, E.M. García Del Toro, I. Hojas García-Plaza	6646
INNOVATIONS IN EDUCATION THROUGH THE APPLICATION OF RASPBERRY PI DEVICES AND MODERN TEACHING STRATEGIES M. Csóka, K. Czakóová	6653
<b>EVALUATE WITH RUBRICS IN STEM TRAINING THROUGH SOCIAL NETWORK</b> I. Hojas Hojas, E. García Del Toro, I. Hojas García-Plaza	6659
MOTIVATION FOR LEARNING NATURAL SCIENCE AND DEVELOPMENT OF ACTIVITY OF STUDENTS IN CONTEXT OF LINEAR FORCE MODEL IN CAR ACCIDENT Z. Malacká	6666
METHODOLOGY AND NECESSARY EQUIPMENT TO MITIGATE CAPACITY LIMITATIONS CAUSED BY COVID-19 IN TEACHING LABORATORIES E. Peñalvo-López, V. León-Martínez, J. Montañana-Romeu, F.J. Cárcel-Carrasco	6671
WHAT THE EYE DOES NOT SEE, THE HEART DOES NOT GRIEVE OVER - TEACHING WEB DEVELOPMENT AS A PROFESSIONAL - A CASE STUDY S. Skulimowski, M. Badurowicz, K. Dziedzic	6677
FOREIGN LANGUAGE TRAINING AS A FACTOR OF DIGITAL SOCIETY DEVELOPMENT E. Tareva, B. Tarev	6684
<b>SIMULATION-BASED EDUCATION: AN INTERNATIONAL RESPONSE TO COVID-19</b> B. Ball, P. Bridge, J. Callender, S. MacKay, A. Manning-Stanley, M. Warren	6690
MILLENIALS GENERATION ATTITUDES TO FAIRTRADE PRODUCTS BASED ON LEVEL OF EDUCATION – CASE STUDY IN CZECH REPUBLIC M. Natrátilová, D. Brož. M. Beranová	6691

M. Navrátilová, D. Brož, M. Beranová

<b>PREVIOUS EXPERIENCES WITH THE APPLICATION OF MULTI-LEVEL MODELS IN</b> <b>UNIVERSITY STUDENTS</b> J. Bilbao, E. Bravo, O. García, C. Rebollar, C. Varela, C. Feniser	6701
RETHINKING CLASSROOM STRUCTURE TO KEEP UNIVERSITY STUDENTS MOTIVATED IN ONLINE CLASSES DURING COVID19 PANDEMIC: A CASE STUDY E. Cuenca	6707
LESSONS OF PANDEMIC AND DIGITAL DEVELOPMENT PRACTICES: URFU EXPERIENCE N. Goncharova, L. Daineko, V. Larionova	6715
BEHAVIOUR PATTERN ANALYSIS OF UNIVERSITY STUDENTS DURING COVID19 TIMES E. Cuenca	6720
COLLABORATIVE PROFESSIONAL LEARNING: PRELIMINARY RESULTS OF A CASE STUDY S. Massa, E.A. Machado, M. Abelha, A.S. Albuquerque	6727
SPECIALIZED AUTONOMOUS ENGLISH LANGUAGE LEARNING THROUGH THE USE OF A VIRTUAL LEARNING ENVIRONMENT C. Mateo-Guillen, J. Fernandez-Molina	6734
THE PHOTOGRAMMETRY METHOD AND 3D VIRTUALIZATION TECHNOLOGY AS A LEARNING TOOL IN THE FLIPPED CLASSROOM AT COVID-19 TIME A. Pérez-Ramos, M.D. Rodríguez-Ruíz, M.J. Bentabol	6741
USE OF VIDEOS FOR THE PREPARATION OF LABORATORY PRACTICES IN THE TEACHING OF MATERIALS SCIENCE AND MATERIALS FOR CONSTRUCTION C. Marieta, S. Cabezudo, M. Zubitur	6748
EDUCATIONAL ROBOTICS PLATFORM BASED ON PSOC TECHNOLOGY FOR TEACHING ELECTRONIC INTEGRATED SYSTEMS	6749
A. Suarez, P.A. Martinez, D. Garcia-Costa, R. Fayos-Jordan, J. Martos, J. Torres, A. Menedez, J. Soret, A. Amaro, J. Perez	
<b>BIBLIOTHERAPY – ACADEMIC EDUCATION – LIBRARIANS</b> S. Eftimova, T. Todorova, L. Parijkova, P. Mukanova, K. Mincheva	6758
WORK ENVIRONMENT, MENTAL AND PHYSICAL WORKLOAD IN RELATION TO THE SUSTAINABILITY OF AN INDUSTRIAL PLANT J. Blahová, A. Pauliková	6763
THE ROLE OF EVALUATION AND INNOVATIVE TOOLS IN TRADITIONAL AND COOPERATIVE EDUCATION IN THE TEACHING OF SCIENCES AND MATHEMATICS Z. Árki, T. Berta, M. Nagy	6770
<b>PEDAGOGICAL APPROACHES FOR SUSTAINABLE DEVELOPMENT IN HIGHER</b> <b>STUDIES IN BUILDING</b> <i>C. Marieta, F. Fernández Marzo, I. Leon</i>	6777
PREDICTORS OF STUDENTS' SATISFACTION WITH THE INCLUSION OF AUDIOVISUAL MATERIAL FOR THE IMPROVEMENT OF THE TEACHING-LEARNING PROCESSES: A PILOT STUDY N. Ruiz Robledillo	6784
HEAD HUNTING FOR UNIVERSITY ENROLLMENT AND MAINTENANCE OF STUDENT ENROLLMENT N. Nelson, D. Hutto	6785
<b>INTEGRATING COLLABORATIVE TOOLS INTO ENGINEERING EDUCATION:</b> <b>TOWARDS A UAT CASE STUDY</b> <i>A. Ciupe, B. Orza, S. Meza</i>	6786
AIR QUALITY DETECTION AND ALERT SYSTEM AS PREVENTING COVID-19 TRANSMISSION METHOD IN EDUCATIONAL CENTERS R. Fayos-Jordan, D. Garcia-Costa, A. Suarez, P.A. Martinez, J. Segura-Garcia, A. Soriano-Asensi, J. Torres, A. Amaro, R. Garcia-Olcina, J. Perez	6791
THE IMPLEMENTATION MECHANISMS OF INCLUSIVE EDUCATION IN RUSSIA AND ABROAD N. Plotnikova, N. Sigal	6800
EXPERIENCES OF PUPILS AND TEACHERS WITH DISTANCE EDUCATION AT PRIMARY SCHOOL H. Hyksova	6804

TRANSFORMATION OF THE POLISH UNIVERSITY THROUGH THE POWER 3.5 INTEGRATED UNIVERSITY PROGRAMS ON THE EXAMPLE OF THE SILESIAN	6811
UNIVERSITY OF TECHNOLOGY A. Waligóra, M. Gorski	
THE OPINION OF PARENTS OF AUTISTIC YOUNG PEOPLE ON THE INFLUENCE OF HEALTH ON PROFESSIONAL CAREER CHOICES, PROMOTING SUSTAINED COMPETITIVE ADVANTAGE D. Saveikiene, I. Baranauskiene	6820
MUSEUP: HOW VIRTUAL CHOIRS MAY HELP STUDENTS LEARNING TO LEARN S. Lariccia, G. Lariccia, M. Gabrieli, M. Della Ventura, G. Toffoli, M. Montanari	6827
"IT'S A THING TO MEASURE THINGS": LEARNING ABOUT MEASUREMENT IN EARLY CHILDHOOD TEACHER EDUCATION IN PORTUGAL M. Figueiredo, H. Gomes, I. Aires de Matos	6835
THE ROLE OF THE SPECIAL EDUCATION TEACHER IN BUILDING AN INCLUSIVE SCHOOL	6840
I. Pinho, E.A. Machado, M. Abelha, A.S. Albuquerque	
ROBOT PROGRAMMING AT ELEMENTARY SCHOOL H. Hyksova	6847
<b>USE OF ULTRASOUND IN CHEMICAL EDUCATION</b> A. Bárta, J. Šibor, P. Sládek	6856
RESEARCH PROCESSES OF TRANSITION TO U-LEARNING IN THE SPHERE OF EDUCATION O. Shirokova, M. Tumanova	6862
<b>THE DYNAMICS OF THE ROMANIAN LABOR MARKET IN THE DIGITAL AGE</b> <i>C. Banescu, E. Titan</i>	6868
C. Bunescu, E. Thun INTEGRATION OF CONCEPT MAPS IN THE LEARNING OF MACHINING PROCESSES U. Alonso, E. Iriondo, N. Ortega	6874
TRAINING OF FUTURE TEACHERS IN THE FIELD OF PRIMARY PREVENTION OF SOCIALLY PATHOLOGICAL PHENOMENA K. Šmejkalová, J. Šibor, P. Sládek	6880
<b>JOB OFFER ON THE ROMANIAN LABOR MARKET IN DIGITAL ECONOMY</b> <i>C. Banescu, E. Titan</i>	6889
SPECIFICS OF THE MOTIVATIONAL SPHERE IN STUDENTS IN DIFFERENT FORMS OF EDUCATION S. Frolova, S. Esina, N. Pribylova	6890
THE EXPERIENCE IN CREATING AND IMPLEMENTING DIGITAL EDUCATIONAL RESOURCES AT UNIVERSITIES DURING THE PANDEMIC A. Blagoveshchenskaya, I. Ainoutdinova, A. Nurutdinova, E. Dmitrieva	6897
NOT ONE THING NOR THE OTHER: EVALUATING A HYBRID MODEL IN HIGHER EDUCATION CLASSES IN PORTUGAL DURING COVID-19 S. Santos, I. Amaral, R. Basílio Simões	6903
THE INFLUENCE OF HEALTHCARE SKILLS FOR THE CAREER OF DISABLED (AUTISM DIAGNOSIS) YOUNG PEOPLE D. Saveikiene, I. Baranauskienė	6908
<b>COMPUTING INNOVATION FOR TECHNOLOGY ENTREPRENEURSHIP</b> I.B. Pavaloiu, G. Drăgoi, A. Vasilățeanu, N. Goga, C.V. Marian, D.A. Mitrea, I.A. Bratosin, A.M. Neagu, I. Guică, L. Trifan, A.A. Alecu	6909
ON THE SUITABILITY OF BLENDED LEARNING IN SECONDARY MATHEMATICS EDUCATION: TEST RESULTS AND PERCEPTIONS OF BELGIAN 9TH GRADE STUDENTS S. Poelmans, N. Verhaeghe, P. Vemuri	6915
SELF-EFFICACY IN UNIVERSITY STUDENTS AS A PREDICTOR OF SUCCESS AMID THE LOCKDOWN DUE TO THE COVID 19 PANDEMIC E. Tennova	6925
<b>PEDAGOGICAL PERSPECTIVE OF THE ONLINE TEACHING PROCESS</b> <i>R. Jukić, M. Sablić, S. Kakuk</i>	6930
SWITCHING TO DISTANCE LEARNING UNDER NATIONWIDE QUARANTINE: A CASE STUDY J. Glivická	6940

<b>TEACHING NEW METHODS OF INTERCULTURAL COMMUNICATION IN THE AREA</b> <b>OF LIBRARY AND INFORMATION SERVICES</b> <i>L. Satarova, I. Kurmaeva, O. Babenko</i>	6946
CHEATING IN ONLINE PROCTORED EXAMS: MOTIVES, SCENARIOS AND PRACTICAL EXAMPLES OF FRAUD AND ITS PREVENTION IN UNIVERSITIES BASED ON THE "TUM CHEATING CONTEST 2020" M. Baume, S. von Neuhoff von Der Ley Ortiz	6951
RHIZOMATIC MODEL OF ONLINE UNIVERSITY EDUCATION IN THE CONTEXT OF THE COVID-19 PANDEMIC IN RUSSIA I. Ainoutdinova, A. Blagoveshchenskaya, A. Nurutdinova, E. Dmitrieva	6962
<b>DISTANCE LEARNING FOR PRACTICAL DIGITAL ELECTRONICS</b> I. Petrescu, I.B. Pavaloiu, M. Răducanu, G. Drăgoi, C.V. Marian, I.A. Bratosin	6969
INITIAL PHASE OF ERASMUS + EUROPEAN UNIVERSITY PILOT PROJECTS' REALISATION AT POLISH UNIVERSITIES M. Gorski, A. Waligóra	6975
<b>EMPLOYEE AND CUSTOMER EXPERIENCE IN COVID TIMES: APPLYING</b> <b>MANAGEMENT THEORIES TO THE EDUCATION SECTOR</b> <i>B. Touaiti, A. Ben Khallouk</i>	6984
A VIDEO-STREAMING-ASSISTED APPROACH TO CONDUCTING DATABASE REMOTE CLASSES DURING COVID-19 PANDEMIC M. Tokovarov, T. Szymczyk, J. Kęsik, K. Żyła, M. Pańczyk	6985
DIGITAL COMPETENCE OF EDUCATORS – AN EXPLORATORY STUDY OF TEACHERS' USAGE OF DIGITAL (EDUCATIONAL) TECHNOLOGIES AND THEIR MOTIVATION BEFORE THE SARS-COV-2 PANDEMIC D. Tobinski, K. Cyra	6992
FEATURES OF COMMUNICATION BETWEEN TEACHERS AND STUDENTS IN DISTANCE LEARNING S. Frolova, S. Esina, N. Pribylova	7002
TRANSFERABLE SKILLS AT HEALTH & LIFE SCIENCE STUDIES: UNDERGRADUATES' AND GRADUATES' PERCEPTIONS X. Stachtea, C. Xanthopoulos, E. Kostareli	7008
LEADERSHIP IN EARLY AND PRESCHOOL EDUCATION INSTITUTIONS: BETWEEN THE DESIRABLE AND THE REAL R. Čepić, M. Terlević	7009
ANALYSIS OF SCHOOL LEADERSHIP PRACTICES AS PART OF A SCHOOL DEVELOPMENT FRAMEWORK I. Saleniece, D. Namsone	7017
SKETCHING APP TO TEACH SPATIAL VISUALIZATION SKILLS SUITABLE FOR REMOTE AND IN-PERSON INSTRUCTION L. Van Den Einde, N. Delson, L. Cowan	7023
STUDENTS' CONCEPTIONS OF LEARNING TO LEARN AND THE EUROPEAN POLICY- MAKERS' DEFINITION N. Bercu	7032
USE OF ICT RESOURCES IN TIMES OF COVID-19. THE CASE OF THE FACULTY OF SOCIAL AND LEGAL SCIENCES OF THE UNIVERSITY OF JAÉN E. Moral-Pajares, R. Barreda-Tarrazona, L. Gallego-Valero, C. Pedrosa-Ortega, C. Martínez-Alcalá	7033
PRACTICAL TRAINING OF STUDENTS THROUGH THE IMPLEMENTATION OF PROJECTS IN THE FIELD OF INTERFACE DESIGN AND SYSTEMS ERGONOMICS K. Baran, M. Tokovarov, T. Szymczyk	7040
<b>AN APPROACH TO ADAPTIVE MICROLEARNING IN HIGHER EDUCATION</b> O. Gherman, C.E. Turcu, C.O. Turcu	7049
PROJECT MANAGEMENT FOR SECURITY AS A TOOL FOR INTERNATIONALIZATION, KNOWLEDGE TRANSFER AND ENHANCEMENT OF COMPETENCIES IN SECURITY AND DEFENSE EDUCATION N. Venelinova, I. Kostadinova, M. Dimitrov	7057
MENTORING AND PROFESSIONAL DEVELOPMENT: RESEARCH FINDINGS FROM THE PERSPECTIVE OF PRESCHOOL TEACHER-MENTORS AND PRESCHOOL TEACHER-TRAINEES R. Čepić, G. Ujčić	7066
LEARNING STATISTICS USING INFOGRAPHICS: A POWERFUL TOOL TO ENGAGE COMMUNICATION STUDENTS IN LEARNING ACTIVITIES C. Silvestre, A. Meireles	7074

<b>TRACKING, A NECESSITY TO IMPROVE ONLINE LEARNING</b> A. Protopsaltis, A. Schorer, D. Gavalas, A. Kostas, G.A. Makrides, R. Kyrillou, N. Dimopoulou, N. Kazantzidou, E. D´Angelo, C. Formica, P. Díaz-García, J. Gisbert-Payá	7082
<b>CROATIAN FEMALE SCIENTISTS ATTITUDES TOWARDS GLASS CEILING THEORY</b> <b>ASSUMPTIONS - A COMPARATIVE ANALYSIS</b> <i>B. Pisker, M. Radman-Funaric, K. Stavlic</i>	7089
<b>CREATING A LANGUAGE LEARNING CHATBOT AS A COMPONENT OF A BLENDED</b> <b>LEARNING MODEL</b> N. Troufanova, A. Fedorin	7095
<b>EVALUATION OF FACTORS INFLUENCING ON UNIVERSITY-INDUSTRY</b> <b>COOPERATION FOR ENCOURAGEMENT OF GRADUATING EMPLOYABILITY</b> D. Yordanova	7100
<b>PEER INSTRUCTION. A TOOL TO INVOLVE STUDENTS ON THE LEARNING PROCESS</b> <i>P. Díaz-García, E. Bou-Belda, I. Montava, J. Gisbert-Payá, M. Bonet-Aracil</i>	7109
FOREIGN LANGUAGE TEACHER TRAINING IN ONLINE LEARNING ENVIRONMENTS: FLIPPED LEARNING FOR NEW TEACHER TRAINING E-ECOLOGIES G. Carloni	7116
LANGUAGE TESTING OUTSIDE THE LANGUAGE ENVIRONMENT M. Kunovski, L. Rocca	7117
GENDER DIFFERENCES IN PERCEIVED SATISFACTION ABOUT THE INCLUSION OF AN EDUBLOG AS AN EDUCATIONAL INNOVATION STRATEGY IN HIGHER EDUCATION N. Ruiz Robledillo	7123
FINANCIAL AND BUSINESS ACCELERATOR: COLLABORATIVE, NON-FORMAL EDUCATIONAL LIBRARY PROGRAMS FOR SUSTAINABLE ECONOMY P. Kiszl	7124
IMPROVEMENT OF TRAINING IN OCCUPATIONAL SAFETY IN DUAL EDUCATION I. Tureková	7133
CHALLENGES OF DISTANCE LEARNING IN RUSSIA: HISTORY TEACHERS' PRACTICES DURING COVID-19 A. Kulieva, V. Markina	7140
<b>STUDENT ENGAGEMENT FOR LANGUAGE LEARNING IN A TRANSLATION COURSE</b> C. Pardo-Ballester	7148
ADDED DEMANDS ON INSTRUCTORS: ADOPTING MINDFULNESS AND AN EDI (EQUITY, DIVERSITY AND INCLUSION) APPROACH M. Myers	7158
BILINGUALISM AND ADAPTATION IN THE CONTEXT OF INTERCULTURAL COMMUNICATION N. Pomortseva, G. Myers, M. Kunovski	7168
IMPACT OF THE COVID-19 PANDEMIC ON ONLINE EDUCATION OF PUBLIC RELATIONS STUDENTS IN RUSSIAN UNIVERSITIES E. Osipovskaya, S. Dmitrieva	7173
THE UPHEAVAL IN AMERICAN SYSTEM OF HIGHER EDUCATION REVISITED: THE IMPACT OF COVID – 19 ON HBCUS	7180
N. Brown, H. Aubrey, T. Clark, K. Anderson, T. Jordan, D. Hill-Eley, H. Swanson, E. Cameron GAMIFICATION BEFORE ITS DEFINITION – AN OVERVIEW OF ITS HISTORICAL DEVELOPMENT	7187
S. Dreimane EDUCATION IN THE FIELD OF FINANCIAL PLANNING IN THE CONDITIONS OF TEACHING BY DISTANCE METHODS E. Hyránek, B. Mišota	7194
STUDY IN JAPAN AND JAPANESE LANGUAGE CONTESTS (COVID19) REVISED: ATTITUDE AND MOTIVATION OF JAPANESE STUDIES UNIVERSITY STUDENTS (SOFIA UNIVERSITY, BULGARIA) T. Ivanova	7201
<b>THE IMPACT OF VIRTUAL LEARNING ON EXPERIENTIAL PEDAGOGIES</b> B. Butragueno, J.F. Raposo Grau, M.A. Salgado de la Rosa	7207
CHALLENGES IN DEVELOPING AND NURTURING A CARING TEACHER-STUDENT RELATIONSHIP IN HIGHER EDUCATION S. Simel Pranjić, S. Žižanović	7216

ACCELERATING DIGITAL TRANSFORMATION IN HIGHER EDUCATION WITH ROBOTIC PROCESS AUTOMATION C.O. Turcu, C.E. Turcu	7225
UNIVERSITY STUDENTS' AWARENESS OF EDUCATION FOR SUSTAINABLE DEVELOPMENT AGENDA A. Lazareva, Y. Zakirova, L.V. Kovtun	7232
<b>TRAINING PHYSICAL EDUCATION TEACHERS IN TUNISIA: AN IMPOSSIBLE</b> <b>CHALLENGE?</b> <i>I. Souid, C. Alin, P. Liotard, P. Fargier</i>	7236
<b>RESPONSIBLE IMPLEMENTATION OF AI IN ORGANIZATIONS AS A TRIGGER FOR LEARNING</b> C. Bjursell, Y. Lindberg	7246
CONCEPT FOR MANAGEMENT OF COOPERATION BETWEEN INDUSTRIAL COMPANIES AND FOR ENCOURAGEMENT OF GRADUATES' UNIVERSITY TO WORK TRANSITION D. Yordanova	7253
COMPARATIVE ANALYSIS OF THE LEVEL OF EDUCATION AND SKILLS OF CROATIAN MICRO-ENTREPRENEURS K. Štavlić, K. Potnik Galić	7261
HIGH SCHOOL STUDENTS' CONCEPTIONS ABOUT SCIENTIFIC PHENOMENA AND THEIR USE IN THE DESIGN OF A HYBRID LEARNING COMPUTER ENVIRONMENT L. Trudel, A. Métioui, G. Arbez	7267
OPEN-SOURCE PLATFORMS AND OERS: LOW BUDGET SOLUTIONS FOR DEVELOPING AND DELIVERING LANGUAGE MOOCS M. Perifanou	7277
DESIGN AND IMPLEMENTATION OF EDUCATIONAL VIDEOS FOR MATHEMATICS AT SCHOOL IN SECONDARY LEVEL 1 C. Rudloff, G. Erez	7284
<b>STUDENT TEACHERS' COMPETENCIES FOR INQUIRY-BASED TEACHING</b> A. Letina, S. Canjek-Androić	7292
ONLINE POSTER PRESENTATION VS. ONSITE. AN EXPERIENCE IN THE PANDEMIC CONTEXT AT UNDERGRADUATE LEVEL A. Heredia Gutiérrez, L. Seguí Gil, C. Barrera Puigdollers, M.L. Castelló Gómez, J. García-Hernández	7302
NEW FORMATS GLOBALLY – NEW CHALLENGES LOCALLY. UNIVERSITY REMOTE TRANSLATION TEACHING O. Babenko, I. Kurmaeva, L. Satarova	7312
THE IMPACT OF COVID-19 ON EDUCATION IN UNDERSERVED AFRICAN AMERICAN COMMUNITIES: REVISITED	7317
T. Clark, N. Brown, H. Aubrey, K. Anderson, T. Jordan, D. Hill-Eley, H. Swanson, E. Cameron SELECTING DIGITAL TOOLS TO FACILITATE UNDERGRADUATE STUDENTS' IN ENGLISH STUDIES CONNECTION AND COLLABORATION DURING LOCKDOWN J. Kuzmina	7323
E-LEARNING PROBLEMS CAUSED BY COVID-19: NEW CHALLENGES OR UNSOLVED ISSUES? A. Oskina, L. Darinskaia	7329
A TOOL FOR MONITORING STUDENTS LEARNING PROGRESS B. Machado, J.C. Metrôlho, F. Ribeiro	7333
FACTORS INFLUENCING UNIVERSITY STUDENTS' AND LECTURERS' COPING IN FORCED REMOTE LEARNING CONDITIONS K. Poom-Valickis, K. Rumma, K. Aus, T. Väljataga	7341
MASSIVE OPEN ONLINE COURSES (MOOCS): A REVIEW A. Pampouri, S. Kostelidou, E. Sionta, M. Souitsme, A. Mavropoulos	7349
COMPARATIVE STUDY: DISTANCE EDUCATION OF STUDENTS AT VOCATIONAL SCHOOLS AND OF MEMBERS OF THE ARMED FORCES H. Zelníčková, D. Vorel, P. Sládek	7357
OPTICAL COMMUNICATION TOOLS FOR UNIVERSITY LABORATORY PRACTICES IN TIMES OF PANDEMIC	7366
D. Puerto, A. Márquez, M. Morales-Vidal, M.G. Ramírez, S. Gallego, I. Pascual, A. Beléndez WELL-BEING OF THE UNIVERSITY STUDENTS DURING COVID-19 QUARANTINE J. Blahová, M. Fero	7367

<b>CREATING A FULL DIGITAL FILM PRODUCTION LECTURE – HOW TO LEARN</b> <b>FILMMAKING IN A DISTANCE LEARNING COURSE</b> I. Schuenemann, J. Kirch, S. Siehl	7375
<b>EVERYBODY ONLINE: INSTRUCTORS' SELF-EFFICACY AND TRAINING NEEDS</b> <b>DURING THE TRANSITION TO (A)SYNCHRONOUS ONLINE TEACHING</b> <i>M. Grammens, F. De Smedt, L. Declercq, B. De Wever</i>	7381
FLIPPED CLASSROOM IS NOT FOR EVERY KIND OF STUDENT S. Sobral	7391
QUALITY SYSTEM IN HIGHER EDUCATION THROUGH THE ANALYSIS OF LEGAL REGULATIONS OF A MEMBER STATE OF THE EUROPEAN UNION (REPUBLIC OF CROATIA) AND A NON-MEMBER STATE (BOSNIA AND HERZEGOVINA) M. Mezak Matijević, M. Čaušević	7397
PREDICTING STUDENTS' PERFORMANCE IN INTRODUCTORY PROGRAMMING COURSES: A LITERATURE REVIEW R. Sobral, F. Oliveira	7402
CURRENT ISSUES IN THE EDUCATION OF STUDENTS IN SECONDARY SCHOOLS IN FORMING LASTING KNOWLEDGE AND CORRUPTION INTOLERANCE BEHAVIOR IN POST-TOTALITARIAN COUNTRIES N. Venelinova, D. Matev	7413
A MODEL FOR DEVELOPING STUDENTS' CREATIVITY WITH THE MEANS OF E- LEARNING A. Oskina	7414
ENTREPRENEURIAL LEADERSHIP AS DRIVING FORCE TO SCHOOL SUCCESS: INSIGHTS ON SCHOOL PRINCIPAL PERCEPTION, PRACTICE AND EXPECTATION D. Luketić	7420
DESIGN FUTURES PHD THINKATON: DIGITALLY BOOSTED WORKSHOP TO TEST AND EVALUATE FUTURE LITERACY METHODS M. Celi, A. Harb	7421
<b>BRAND MANAGEMENT APPLIED TO HIGHER EDUCATION: CREATING LOVEMARKS</b> <b>IN PUBLIC IRISH UNIVERSITIES</b> J. Casanoves-Boix, M. Pérez-Sánchez, A. Cruz-Garcia, M. Murphy	7431
<b>VIRTUAL OPTICAL LABORATORY EXPERIENCE DURING COVID-19 PANDEMIC</b> <i>M. Morales-Vidal, M.G. Ramírez, D. Puerto, T. Lloret, V. Navarro-Fuster, I. Pascual</i>	7437
AUGMENTED REALITY FIRE SIMULATION IN CLASSROOM AND OFFICE ENVIRONMENT M. Vairinhos, R. Raposo, E. Pereira	7443
IN TIMES OF COVID-19 PANDEMIC: MATHEMATICAL AND DIGITAL LITERACY THROUGH REMOTE EDUCATION IN BRAZIL K. Soares, S. Leôncio, M. Aguirre	7452
TAKE A SEAT. THE INFLUENCE OF DISTANCE TO THE BLACKBOARD ON ATTENTION AND MEMORY PERFORMANCE J.L. Higuera-Trujillo, J. Marín-Morales, C. Llinares	7461
MATH4U HELPS TO IMPLEMENT CLIL IN THE MATH LESSON P. Vondráková, P. Beremlijski	7466
<b>AN E-LEARNING PLATFORM ADAPTED TO THE ONLINE LEARNING SYSTEM</b> A.I. Awada, I. Mocanu	7473
SUSTAINABLE DEVELOPMENT GOALS INTEGRATED IN PROJECT-BASED LEARNING IN THE MECHANICAL ENGINEERING DEGREE M. Pérez-Sánchez, R. Sanchis	7480
<b>RESILIENCE TO PANDEMIC BY USE OF CREATIVE THINKING: EXPERIENCE OF LITHUANIAN PUBLIC HEALTH PROFESSIONALS</b> <i>R. Vaičekauskaitė, J. Grubliauskienė, J. Babarskienė</i>	7488
<b>USE OF THE MATH4U PORTAL DURING THE COVID19 PANDEMIC</b> P. Beremlijski, P. Vondráková	7496
FLIPPED CLASSROOM IN TEACHING BASIC MOTORIC SKILLS AT THE UNIVERSITY OF TEACHER TRAINING C. Rudloff	7504
<b>NEW PERSPECTIVES IN FUNDING UNIVERSITIES IN SLOVAKIA</b> S. Barnová, S. Krásna, G. Gabrhelová	7505

THE RELATIONSHIP BETWEEN MOTIVATION AND PERFORMANCE OF UNIVERSITY STUDENTS	7510
M.L. Nolé, J.L. Higuera-Trujillo, J. Marín-Morales, C. Llinares <b>RECOGNIZING THE ELEPHANT IN THE ROOM: PERCEPTIONS OF DISABILITY</b> <b>AMONG HEALTH CARE STUDENTS AND PROFESSORS</b> <i>R. Vaičekauskaitė, J. Babarskienė</i>	7516
ATTITUDES TOWARDS FOREIGN LANGUAGE TEACHING IN THE CONTEXT OF A GLOBAL PANDEMIC: ON THE EXAMPLE OF THE SOUTH-WEST UNIVERSITY NEOFIT RILSKI, BULGARIA V. Doneva, T. Kiryakova-Dineva	7524
<b>THE PHENOMENON OF BULLYING IN SECONDARY SCHOOL STUDENTS</b> <i>M. Goga, M.I. Şerban</i>	7531
<b>COGNITIVE GAMES FOR IMPROVING LEARNING SKILLS</b> A. Mocanu, I. Mocanu, O. Cramariuc	7537
<b>CENTER FOR TESTING AND MONITORING OF TECHNICAL SYSTEMS</b> A. Šmeringaiová	7545
ANGLICISMS IN THE SPECIFIC VOCABULARY OF HUMAN RESOURCE MANAGEMENT A. Klimentova, K. Klimentova	7553
DEVELOPING A SERIOUS GAME TO TEACH YOUNG ADULTS WITH INTELLECTUAL DISABILITIES HOW TO STAY SAFE DURING THE COVID-19 PANDEMIC A. Tsibidaki, M. Terezakis, E. Terezaki	7561
EXPECTATIONS AND EXPERIENCES FOR CURRICULUM DESIGN OF THE SUBJECT BASICS OF MANUFACTURING TECHNOLOGY A. Šmeringaiová	7567
INTEGRATION OF ICT METHODS FOR TEACHING AND LEARNING IN POST-COVID SCHOOLING. SELF-PERCEPTION AND TRUST ON DIGITAL COMPETENCES DEVELOPMENT OF ROMANIAN TEACHERS O. Mosoiu, L. Popa, R. Medesan	7575
KAHOOT! AS A TOOL FOR ENGAGING VIRTUAL CLASSES IN HIGHER EDUCATION AMID COVID-19 PANDEMIC E. Kostareli	7582
MODEL FOR CYBER ETHICAL AND TRANSPARENCY ISSUES IN EDUCATION: A SHORT OVERVIEW S. Denchev, T. Trencheva	7583
<b>THE LEARNING DIARY: STUDENT SELF-REFLECTION AND ENGAGEMENT IN TIMES</b> <b>OF COVID-19</b> <i>J. Duarte, A.F. Beaufils</i>	7589
A COMPARATIVE STUDY ON TEACHERS' VIEWS ON ENTREPRENEURIAL EDUCATION K. Tsoli, T. Babalis	7598
WORKPLACE-BASED LEARNING AND EPORTFOLIO USE IN POST-GRADUATE MEDICAL EDUCATION IN FLANDERS (BELGIUM): WHAT ARE THE PERCEIVED NEEDS? M. Robbrecht, M. Embo, M. Van Winckel	7606
THE IMPACT OF THE PANDEMIC SITUATION ON THE EUROPEAN HIGHER EDUCATION: SURVEY RESULTS OF ULSIT T. Trencheva, S. Denchev, E. Zdravkova-Velichkova	7607
THE IMPACTS OF THE PANDEMIC COVID-19 TO THE EDUCATIONAL PROCESS - ANALYSIS AND ASSESSMENT FROM THE PERSPECTIVE OF THE STUDENT AND TEACHER P. Mésároš, K. Krajníková, J. Smetanková	7614
IMPLEMENTING TASK-BASED LANGUAGE INTERACTIONS IN A SHORT-TERM STUDY ABROAD PROGRAM A. Añorga	7621
SOME ASPECTS OF AN UNIVERSITY WEBSITE ACCESSIBILITY V. Kirinić	7626
EDUCATIONAL VIDEOS IN ORDER TO ENHANCE LABORATORY PRACTICE LEARNING C.L. Gil de Gómez, R. Fernández, A. Morales, M.A. Andrés	7631

THE INVITATIONAL PERSPECTIVE AND CREATION OF EXTERNAL CONDITIONS IN THE EDUCATIONAL PROCESS R. Ghita, C. Baias	7636
THE EVALUATION OF EARLY CHILDHOOD EDUCATION IN PRE-PROFESSIONAL PRACTICE M. Hidrobo, M. Heredia, A. Villavicencio	7642
<b>THE EFFECT OF THE NUMBER OF DISTRACTORS AND THE "NONE OF THE ABOVE" -</b> <b>"ALL OF THE ABOVE" OPTIONS IN MULTIPLE CHOICE QUESTIONS</b> <i>A.H. Jonsdottir, T. Jonmundsson, I.H. Armann, B.B. Gunnarsdottir, G. Stefansson</i>	7647
<b>AN EMPIRICAL STUDY ON HOW TO INCREASE PUBLIC HIGHER EDUCATION</b> <b>INSTITUTIONS VISIBILITY IN DIGITAL ERA</b> <i>R. Bituleanu, M.I. Dascalu</i>	7654
SOCIAL MEDIA FOR READING: ENHANCING FOREIGN LANGUAGE SKILLS IN UNDERGRADUATE STUDENTS S. Vásconez Miranda, D. Vásconez Miranda, J. Samaniego Villarroel, A. Carrera Rivera, J. Josué Parrales Muñoz, A. Villón Murillo	7664
USE OF FACEBOOK AND CYBERBULLYING DURING THE PERIOD OF COVID-19 AMONG STUDENTS WITH LEARNING DIFFICULTIES: THE ROLE OF LONELINESS T. Touloupis	7672
USE OF INTERACTIVE TOOLS AND SUPPORT OF M-LEARNING IN EDUCATIONAL INSTITUTIONS IN THE CONSTRUCTION INDUSTRY P. Mésároš, K. Krajníková, J. Smetanková, J. Čabala	7673
<b>NEW APPROACHES TO ON-LINE COLLABORATION IN TIMES OF COVID19</b> <b>PANDEMIC</b> S.N. Kurbakova, M.A. Kozhevnikova, E.V. Fedotkina	7681
<b>USE OF SOUND RECORDINGS AND ANALYSIS FOR PHYSICS LAB PRACTICES</b> S. Ardid, S. Marquez, M. Ardid	7687
<b>CONTRIBUTION OF PRE-PROFESSIONAL PRACTICE TO THE GRADUATION PROFILE</b> <b>OF THE EARLY CHILDHOOD EDUCATION SCHOOL</b> <i>M. Hidrobo, M. Heredia, A. Villavicencio</i>	7694
ENHANCING MEDIA COPYRIGHT LITERACY THROUGH THE SOCIAL MEDIA: CASE STUDY AT ULSIT E. Zdravkova-Velichkova, S. Dimitrova, M. Traykov	7698
IMPACT OF THE EMPOWERMENT OF PROFESSORS-RESEARCHERS ON THE DEVELOPMENT AND INNOVATION OF THE MEXICAN STATE PUBLIC UNIVERSITY EDUCATIONAL SYSTEM: CASE OF UABC RESEARCHERS G. Amaya-Parra, J. Flores-Amador, J.I. Aguilar-Duque, J. Nieto-Hipolito	7705
<b>DEVELOPING A CONFINED SOCIAL INTERACTION PLATFORM FOR YOUNG ADULTS</b> <b>WITH INTELLECTUAL DISABILITIES</b> <i>M. Terezakis, A. Tsibidaki</i>	7711
SCIENTIFIC DIFFUSION THROUGH FACEBOOK STREAMING: AN ANALYSIS REPORT J. Samaniego Villarroel, S. Vásconez Miranda, J. Astudillo Calderón, D. Valencia Ruiz, Y. Vargas Jama, A. Guillén Cortéz	7718
MEASURING THE IMPACT OF A PROJECT-BASED LEARNING STRATEGY ON LABORATORY ACTIVITY IN NEUROMARKETING L.M. Cerdá Suárez	7723
<b>EMPOWERING EDUCATORS IN DIGITAL ASSESSMENT</b> L. Amante, G. Bastos, I. Oliveira	7729
<b>INTERNATIONALIZATION OF UNIVERSITY EDUCATION THROUGH THE ERASMUS</b> + <i>A. Klimentova, V. Kurincova</i>	7736
<b>THE IMPORTANCE OF A PARTICIPATORY DIAGNOSIS IN THE DEVELOPMENT OF</b> <b>LOCAL QUALIFICATION STRATEGIES TO MEET DIGITAL TRANSFORMATION</b> <i>M. Amorim, M. Ferreira Dias, G. Mello, A. Souza, M. Rodrigues, R. Madureira</i>	7743
ANALYSIS AND COMPARISON OF THE EDUCATIONAL PROCESS AT THE UNIVERSITY DURING THE COVID-19 PANDEMIC FROM THE STUDENTS AND TEACHERS POINT OF VIEW M. Dobroselskyi, R. Madlenak, M. Zilincikova	7752
GERMAN THEATRE FOR CHILDREN AS A PART OF THE GERMAN PEDAGOGICAL SYSTEM A. Lisenko, I. Rakhimbirdieva	7760

A. Lisenko, I. Rakhimbirdieva

CHALLENGES AND POSSIBILITIES OF DISTANCE EDUCATION DURING THE       7         QUARANTINE DUE TO THE COVID-19 PANDEMIC: PARENTS' ATTITUDE       7         I. Stonkuviene, J. Buzaityte-Kasalyniene       7	764
TEACHING SPANISH IN RUSSIA: GAMIFICATION TECHNIQUES AS A MOTIVATION       7         TOOL FOR LANGUAGE ACQUISITION IN PRIMARY SCHOOL       7         E. Popova, D. Reshetov       7	772
THE INCLUSION OF PUPILS WITH SPECIAL EDUCATIONAL REQUIREMENTS AND       7         THOSE BELONGING TO NATIONAL MINORITIES IN THE EDUCATIONAL PROCESS       7         M. Goga, M.Ş. Mişu-Popescu       7	7779
	785
PARENTAL INVOLVEMENT IN HOMEWORK OF CHILDREN WITH LEARNING7DIFFICULTIES DURING DISTANCE LEARNING: RELATIONS WITH FEAR OF COVID-197AND RESILIENCET. Touloupis	792
<b>ROBOTIC PROCESS AUTOMATION - PROSPECTS AND EDUCATION IN POLAND</b> 7 M. Juszczyk	793
THE SOCIO-CULTURAL ASPECT OF INTERCULTURAL COMMUNICATION SKILLS BY7.TEACHING FOREIGN LANGUAGES (BASED ON GERMAN AS A FOREIGN1.LANGUAGE)I. Rakhimbirdieva, A. Lisenko	7803
TRAINERS WORKSHOP	7808
M. Pears, J. Henderson, P.D. Bamidis, C.S. Pattichis, K. Karlgren, H. Wharrad, S.T. Konstantinidis	
THE PEDAGOGICAL VARIATION MODEL (ROGERS, 2013): PRE-SERVICE TEACHER       7.         EXPERIENCES IN UNCERTAIN GLOBALLY CHALLENGING TIMES       7.         M.S. Rogers, A. Grunewald Nichele       7.	7816
UNVEILING THE INVISIBLE ONLINE INSTRUCTOR: A SELF-STUDY AND AUTO- ETHNOGRAPHY TO IMPROVE INSTRUCTOR'S PRESENCE IN ONLINE CLASSES A. Añorga	7827
INCLÚYEME: AN INCLUSIVE AND COLLABORATIVE WORKSHOP IN HIGHER 74 EDUCATION C. Andrés-Roqueta, J. Julve	7832
ENTREPRENEURSHIP EDUCATION AS A COMPETITIVENESS SUPPORT IN THE7.CONDITIONS OF GLOBALISATIONM. Zilincikova, Z. Stofkova	7833
	7841
FASHION-TECH ALLIANCE: INNOVATING PROFESSIONAL DIGITAL COMPETENCES       74         AND SKILLS IN THE FASHION INDUSTRY       74         C. Colombi, D. Casciani       74	7842
	7853
AN INQUIRY INTO THE INFLUENCES OF L1 CULTURE ON INTERNATIONAL 74 UNDERGRADUATE STUDENTS' L2 WRITING IN CANADIAN POST-SECONDARY EDUCATION R. Jabeen, M. Myers	7862
EDUCATION OF UNIVERSITY STUDENTS DURING A CRISIS SITUATION       74         J. Kubas, Z. Stofkova       74	7863
LITHUANIAN TEACHERS' EXPERIENCES IN DISTANCE EDUCATION DURING THE       74         QUARANTINES DUE TO THE COVID-19 PANDEMIC       74         I. Stonkuviene, V. Grabauskiene, V. Schoroskiene       74	7870
USING A GALLERY WALK TO PROMOTE PROSPECTIVE TEACHERS' WRITTEN 74 MATHEMATICAL COMMUNICATION SKILLS R. Tomás Ferreira, M.H. Martinho	7878
DIGITAL SKILLS THAT LEAD TO DIGITAL TRANSFORMATION IN THE FINANCIAL SECTOR: A REVIEW OF LITERATURE A.M. Sanchez-Riofrio, J.G. Rodriguez-Vasquez, A. Alvarez Benites, M.N. Gamboa-Veliz, F. Cea D'Ancona	7889

DIGITAL SKILLS AS PART OF EDUCATION OF PHD STUDENTS P. Janošková, K. Repkova Stofkova	7897
USING LEARNING MANAGEMENT SYSTEMS IN TEACHING RUSSIAN AS A FOREIGN LANGUAGE TO ANSWER THE MODERN CHALLENGES M. Novikova, P. Novikov	7904
CURRICULUM INTEGRATION PROPOSAL FOR KIBO ROBOT IN PRESCHOOL: KIDS MEDIA LAB PROJECT M. Pinto, M. Fernandes, A.J. Osório	7910
USING SKETCH ENGINE AND OTHER CORPUS ANALYSIS TOOLS IN FOREIGN LANGUAGE TEACHING P. Novikov, M. Novikova	7922
<b>PREPARING STUDENTS FOR THE LEARNING ENVIRONMENT: A READINESS</b> <b>PARADIGM</b> <i>R. Branch, H. Lee</i>	7927
VIRTUAL LEARNING AND ITS IMPACT ON STUDENTS' DEVELOPMENT V. Cieslak	7928
STUDENT'S OPINION ON DISTANCE LEARNING AT UNIVERSITY DURING THE COVID-19 PANDEMIC D. Laitkep, K. Repkova Stofkova, P. Jucha	7933
GAMIFIED LEARNING PLATFORM FOR INCREASING RECYCLING AWARENESS BASED ON MACHINE LEARNING TECHNIQUES S.M. Draghici, M.I. Dascalu, V.F. Constantin	7940
COMPARISON OF OUTCOMES FROM THE TRANSITION OF A FACE-TO-FACE TO AN ONLINE INTERPROFESSIONAL EDUCATION EXPERIENCE WITH MEDICAL AND OCCUPATIONAL THERAPY STUDENTS B. Piernik-Yoder, D. Henzi, J. Morrow	7949
<b>THE ROLE OF STAKEHOLDERS' EVALUATION ON THE QUALITY OF REUSABLE</b> <b>LEARNING OBJECTS FOLLOWING THE ASPIRE PARTICIPATORY FRAMEWORK</b> <i>M. Ho, M. Taylor, E. McSharry, I. Bergmann-Tyacke, M. Reis Santos, M. Dhaeze, M. Brown, C. Hall,</i> <i>S.T. Konstantinidis</i>	7950
<b>THE ERASMUS EXPERIENCE IN TIMES OF COVID</b> <i>G. Moreira</i>	7961
IS TERTIARY EDUCATION WORTH IT? P. Marinič, P. Pecina	7966
ECONOMIC EDUCATION AS A RESOURCE FOR THE PRESCHOOL CURRICULUM: A STUDY BASED ON TEXT ANALYSIS E. Isidori, I. Leonova, M. De Martino, L. Zakharova	7970
THE ROLE OF CONNECTIVISM IN TECHNICAL VOCATIONAL EDUCATION AND TRAINING P. Pecina, P. Marinič	7977
THE STUDY OF THE ORGANIC FUNCTIONS IN ENGLISH LANGUAGE USING FACEBOOK AS A LEARNING MANAGEMENT SYSTEM J. Charline Siqueira de Oliveira, A. Grunewald Nichele	7982
REAL-TIME MONITORING OF SHARED SPACES. INTERNET OF THINGS AS A MEAN TO MOTIVATE STUDENTS IN THE "FACULTAD DE INFORMÁTICA" OF THE NATIONAL UNIVERSITY OF LA PLATA (UNLP) F.J. Díaz, M.A. Osorio, P. Amadeo, D. Graselli	7989
E-TUTORING FOR SPECIAL EDUCATION TEACHERS AT THE TIME OF COVID-19: A CASE STUDY P. Magnoler, A. Magnanini, G. Morelli, E. Isidori	7996
<b>ATTITUDES TOWARDS RESEARCH IN STUDENTS FROM A SECOND SPECIALTY</b> <b>NURSING PROGRAM AT A UNIVERSITY OF LIMA</b> <i>H. Matta-Solis, R. Perez-Siguas, E.P. Matta-Solis</i>	8002
WHEN A FULLY FACE-TO-FACE DEGREE BECAME REMOTE IN A FEW DAYS: IMPACT	8009
OF THE SPANISH COVID-19 QUARANTINE ON THE DEGREE IN MANAGEMENT AND PUBLIC ADMINISTRATION AT THE UNIVERSITAT JAUME I	0009
	8019

H. Matta-Solis, R. Perez-Siguas, E.P. Matta-Solis

THE ACCEPTANCE OF MOODLE LEARNING MANAGEMENT SYSTEM IN HIGHER INSTITUTION DURING COVID-19 PANDEMIC L. Pagán, A. Medina	8024
<b>STORYTELLING IN VR: HELPING CHILDREN WITH FEAR OF THE DARK</b> A. Faustino, M. Vairinhos	8035
THEY WON'T LET ME GO BACK TO CLASS, NOR DO I KNOW IF I WILL RETURN: IMPACT OF THE NATIONAL COVID-19 QUARANTINE IN SPAIN ON PROFESSORS AND STUDENTS OF THE DEGREE IN MEDICINE AT THE JAUME I UNIVERSITY O. Coltell, D.E. Stroe, L.V. Lizán, R. Tosca	8046
AN EMPIRICAL STUDY OF INTERACTIVE SOMATOSENSORY EDUCATION GAMES ON GROSS MOTOR SKILL DEVELOPMENT OF PRESCHOOL X. Wei, K. Zhang	8053
DEVELOPING EDUCATIONAL COMPETENCES OF ACADEMIC TEACHERS - FROM THE PERSPECTIVE OF DEMANDS OF THE FUTURE E. Lakoma	8062
ACADEMIC BURNOUT DURING COVID-19 PANDEMIC IN NURSING STUDENTS FROM A PRIVATE UNIVERSITY IN LIMA D. Rengifo-Alvan, K. Vicaña-Huaman, R. Perez-Siguas, H. Matta-Solis, E.P. Matta-Solis	8067
<b>FEAR AND ANXIETY ABOUT COVID-19 DURING THE HEALTH EMERGENCY IN</b> <b>STUDENTS OF A PSYCHOLOGY PROGRAM IN LIMA</b> <i>R. Perez-Siguas, H. Matta-Solis, E.P. Matta-Solis</i>	8073
<b>EVALUATION OF THE HIGHER EDUCATION PROGRAMS QUALITY, BASED ON</b> <b>ARTIFICIAL INTELLIGENCE METHODS</b> O. Serebrennikov, A. Ponomarev, V. Syuzev, A. Proletarsky	8080
AUGMENTING PEER REVIEWS FOR AN ENHANCED ONLINE TEACHING ENVIRONMENT C. Weiss	8085
EXAMINING PRACTICAL ISSUES ASSOCIATED WITH THE USE OF WEARABLE TECHNOLOGY IN K-12 CLASSROOMS: A REVIEW OF THE LITERATURE R. Kay, P. Jovanovic	8093
A SYSTEM BASED ON ARTIFICIAL INTELLIGENCE TO TRACK STUDENT ATTENDANCE DURING THE CLASS O. Serebrennikov, A. Ponomarev, A. Proletarsky, V. Syuzev, M. Arkhipov, M. Korenev, A. Stepanenko, V. Santalov	8099
THE COVID-19 PANDEMIC REVEALS INEQUALITIES IN INTERNET ACCESS FOR STUDENTS IN BRAZIL A. Araujo de Almeida, E. Gama dos Santos, M. do Nascimento, M. Aguirre	8105
TECHNOLOGICAL MANAGEMENT MODEL PROPOSAL FOR ENVIRONMENTAL EDUCATION PROJECTS IN PROTECTED NATURAL AREAS: PARQUE NACIONAL SAN PEDRO MÁRTIR -OBSERVATORIO ASTRONOMICO NACIONAL IA UNAM- MÉXICO A.K. Campos Jimenez, E. Lugo-Ibarra, J.I. Aguilar-Duque	8114
EXPLORING THE QUALITIES OF VIDEO FEEDBACK ARTEFACTS IN HIGHER EDUCATION: A REVIEW OF THE LITERATURE T. Bahula, R. Kay	8125
LABOR MOTIVATION IN TEACHERS FROM A PRIVATE UNIVERSITY DURING COVID-19 PANDEMIC, LIMA-PERU E.P. Matta-Solis, H. Matta-Solis, R. Perez-Siguas	8131
STUDENT SATISFACTION OF NURSING STUDENTS OF A PUBLIC AND PRIVATE UNIVERSITY IN THE USE OF E-LEARNING: COMPARATIVE STUDY E.P. Matta-Solis, H. Matta-Solis, R. Perez-Siguas	8136
<b>IMPLEMENTING A FEEDBACK HIERARCHY TO SUPPORT MATHEMATICAL</b> <b>PERSEVERANCE IN A DIGITAL SKETCHING APPLICATION</b> J. Dinapoli, N. Delson, L. Van Den Einde, L. Cowan	8141
<b>EVALUATING THE EDUCATIONAL EFFECTIVENESS OF BUSINESS SIMULATION</b> <b>GAMES IN THE CONTEXT OF COVID-19 PANDEMIC: A CASE STUDY</b> <i>G.M. Marin-Carrillo, C. Segovia-López</i>	8151
<b>APPLICATION OF VIRTUAL REALITY AND AUGMENTED REALITY IN MUSEUM LEARNING: A LITERATURE REVIEW</b> X. Wei, R. Huangfu	8159

MAKING ONLINE COLLABORATIVE LEARNING RELEVANT AND EFFECTIVE AMONG STUDENTS WITH DIVERSE CULTURAL BACKGROUNDS: EVIDENCE FROM JAPANESE UNIVERSITIES T. Sakamoto, A. Honda, P.B. Kanduboda	8166
MANAGEMENT AND MARKETING TECHNIQUES USEFUL IN SHAPING THE THINKING OF FUTURE ENGINEERS G.M. Moraru	8174
MODULES OF PRACTICAL EDUCATION IN RESCUE SERVICES J. Svetlík, S. Gašpercová, M. Polorecká	8179
THIS NEW NORMAL AND ME U. Jahn	8184
STANDARDS FOR SKILL DEVELOPMENT: A CASE STUDY OF INDIA'S POLICY AND QUALITY INSTRUMENTS FOR VET S. Mathayas, T. Padda	8189
A NOVEL APPROACH TO IMPROVE STUDENT ACHIEVEMENT: A STEP FORWARD IN DEVELOPMENT OF AUTOMATED FEEDBACK SYSTEM FOR SCHOOL G. Burgmanis, D. Namsone, P. Pestovs, I. Saleniece	8196
DEGREE OF INTERIORIZATION OF A FOREIGN LANGUAGE FOR CITIZENS OF CATEGORY 55+ (WITHIN THE FRAMEWORK OF THE SOCIAL PROJECT OF MOSCOW 'SILVER UNIVERSITY') V. Nikitina	8206
THE NEED FOR COLLABORATION BETWEEN ACADEMIA AND INDUSTRY FOR SUSTAINABLE DEVELOPMENT G.M. Moraru	8210
INTERDISCIPLINARY APPROACH IN TEACHING HISTORICAL DISCIPLINES: COVERING THE PROBLEM OF MARGINAL RELIGIOUSNESS IN RUSSIA IN THE XX CENTURY E. Kriazheva-Kartseva	8215
DESIGNING AN ADAPTABLE HIGH-AVAILABILITY E-LEARNING FRAMEWORK USING FREE AND OPEN SOURCE TECHNOLOGY K. Kacapor, V. Veselinovic	8223
PROFESSIONAL EDUCATION AND PREPARATION FOR THE UNIVERSITY STUDENTS OF RESCUE SERVICES IN THE FIELD OF FIRST AID AND COOPERATION WITH HUMANITARIAN ORGANIZATIONS J. Svetlík, M. Polorecká, P. Martinek	8233
MINORITY STUDENTS AT RISK OF DROP OUT AND THE VALUE THEY ATTRIBUTE TO SCHOOLING C. Bembich, P. Sorzio	8237
<b>POSTMODERN EDUCATION AND TECHNOLOGICAL DEVELOPMENT. CYBER RANGE</b> <b>AS A TOOL FOR DEVELOPING CYBER SECURITY SKILLS</b> <i>E. Ciuperca, A. Stanciu, C. Cîrnu</i>	8241
SOCIAL EDUCATIONAL INFRASTRUCTURE FOR RUSSIAN SCHOOL STUDENTS: BASELINE STUDY IN AVAILABILITY AND ACCESSIBILITY UNDER REGULAR AND CRITICAL CONDITIONS A. Kuznetsov, K. Skobeltsina	8247
<b>COLLABORATIVE WORKING IN A VIRTUAL ENGINEERING LABORATORY</b> M. Villen-Guzman, R.M. Sanchez-Varo, M.M. Cerrillo-Gonzalez, J.J. Fernandez-Valenzuela, J.M. Rodriguez-Maroto, J.M. Paz-Garcia	8252
<b>VIRTUAL TECHNICAL VISITS TO COMPANIES</b> M.M. Cerrillo-Gonzalez, M. Villen-Guzman, P.D. Franco-Caballero, J.M. Paz-Garcia	8256
HERITAGE SITES AS MEANS OF BRINGING CULTURAL AWARENESS: INTERGENERATIONAL ATTITUDES TOWARDS VISITING MUSEUMS I. Kacane	8261
DEVELOPMENT OF INFORMATION COMPETENCY OF TECHNICAL UNIVERSITY STUDENTS: A CASE STUDY OF CAREER-ORIENTED CROSS-CULTURAL LANGUAGE TRAINING A. Kuznetsov, A. Bannova, T. Veldyaeva	8267
EVALUATION OF FINANCIAL AND NON-FINANCIAL MOTIVATIONAL FACTORS ACCORDING TO SELECTED CRITERIA I. Kmecova, M. Tlusty	8275
ANALYSIS OF LEARNING OUTCOMES IN GAMIFIED BLENDED E-LEARNING COURSE D. Kermek, M. Kaniški	8281

CHALLENGES WHEN TEACHING IN ENGLISH TO UNDERGRADUATE STUDENTS IN AN INTRODUCTION TO BUSINESS COURSE	8291
M.L. Flor DISSEMINATION OF FINAL MASTER'S PROJECTS TO IMPROVE THE GRADUATION RATE AND THE VISIBILITY OF THE MASTER AND ITS GRADUATES D. Sales, S. Fernández-Vidal	8296
THE CHALLENGES OF CHILDREN'S TRANSITION TO KINDERGARTEN: HOW DO EARLY CHILDHOOD EDUCATORS PERCEIVE THEIR RELATIONSHIP WITH CHILDREN DURING TRANSITION?	8300
S. Tatalović Vorkapić BUSINESS INFORMATION SYSTEMS PRODUCTIVITY MODELING V. Totev, I. Kostadinova, A. Andonov, S. Petrova	8312
"SUCCESS FORMULA": FACTORS OF EDUCATIONAL SUCCESS / FAILURE IN THE ASSESSMENTS OF RUSSIAN SCHOOLCHILDREN A. Kulminskaya	8318
IMPLEMENTATION OF PROJECT-BASED LEARNING MODELS IN UNIVERSITIES L. Boronina, A. Baliasov, Z. Senuk, L. Bannikova	8324
<b>DIDACTIC INTERACTIONS AND KNOWLEDGE CONSTRUCTION IN BLENDED</b> <b>LEARNING</b> : <b>A CASE STUDY</b> <i>O. Turpo-Gebera, J. Zarate-Yepez, R. Díaz Zavala</i>	8332
A COORDINATOR'S PERSPECTIVE OF SUPPORTING PRE-SERVICE TEACHERS THROUGH THE EDTPA D. Owens-Mosby, J. Byford, K. Chambers	8341
RETHINKING CONCEPTS UNDER COVID 19 CRISIS: PROVIDERS AND BENEFICIARIES OF THE EDUCATIONAL PROCESS G.A. Necula	8342
IMPROVING STUDENT ENGAGEMENT AND COURSE COMPLETION USING CHATBOT APPLICATION A. Čižmešija, A. Horvat, D. Plantak Vukovac	8346
<b>THE REALM(S) OF BELONGINGNESS (ONLINE)</b> C. Mazzola-Randles	8355
BENEFITS OF SCIENTIFIC RESEARCH METHOD IN TEACHING MATHEMATICS IN HIGH SCHOOL K. Antoš	8365
TEACHING MATHEMATICS WITH USING PROBLEM SOLVING TASKS AT HIGH SCHOOL K. Antoš	8373
TAILORING NEW ZEALAND BASED ACADEMIC SUPPORT FOR POSTGRADUATE DISTANCE EDUCATION STUDENTS IN THE PACIFIC REGION TRAINING IN GENERAL PRACTICE K. Blattner, A. Fa'aotese, M. Smith, K. Maoate	8381
A NEW NARRATIVE APPROACH TO VALORIZE HISTORICAL VILLAGES, BETWEEN DRAMATURGY AND MIXED REALITY: THE "INNOVA PATRIMONIO" PROJECT E. Pietroni	8386
BEGINNING TEACHERS, THE IMPORTANCE AND POSSIBILITIES OF THEIR SELF- LEARNING J. Ševčíková, J. Plischke	8396
PRE-SERVICE TEACHERS AND VIRTUAL FIELD EXPERIENCE DURING COVID-19: A UAE CASE Z. Hojeij, S. Baroudi	8403
<b>BEING A TEACHER IN DISTANCE EDUCATION: THE PERCEPTION OF STUDENTS IN</b> <b>BASIC EDUCATION DEGREE</b> <i>V. Graça, P. Quadros-Flores, A. Ramos</i>	8404
<b>CONDITIONS OF PROJECT SKILLS TRANSFER FOR MODELS OF PROJECT</b> <b>COMPETENCIES BUILDING IN TEACHERS-TO-BE</b> <i>O. Kitikar, T. Ilievitch, I. Dercacenco, N. Mikhailova</i>	8414
KEY COMPETENCES FOR LIFELONG LEARNING IN EUROPE: TOWARDS A CONCEPTUAL FRAMEWORK OF UNDERSTANDING, FORMULATION AND IMPLEMENTATION	8419
A. Pampouri, P. Tsolakidou, A. Mavropoulos <b>3D-PRINTED POLARIMETER FOR EDUCATIONAL USE IN SCHOOLS AND COLLEGES</b> A. Grunewald Nichele, K. Silva dos Santos Moraes	8429

<b>EXPLORING DIFFERENCES IN UNDERGRADUATES' WRITTEN EXPRESSION BETWEEN WRITING ON SCREEN AND WRITING ON PAPER</b> F. Antoniou, D. Papadopoulos	8436
COMPARATIVE ANALYSIS OF EMPLOYERS' AND STUDENTS' PERCEPTIONS ABOUT PROFESSIONAL KNOWLEDGE AND TRANSFERABLE SKILLS REQUIRED IN BULGARIAN IT SECTOR R. Rusev, D. Yordanova	8445
<b>VIRTUAL LEARNING ENVIRONMENTS IN THE COLLABORATIVE WORK OF HIGHER</b> <b>EDUCATION</b> J.L. Armijos Carrión, Y.M. Portela Leiva, Y. Esquivel Rivero, A. Avila Carvajal, E. Villacreses Sarzoza, J. Valarezo Castro, F. Chamba Gómez	8451
IMPLEMENTATION OF EDUCAPLAY TO STRENGTHEN THE LEARNING TEACHING PROCESS OF THE BACCALAUREATE STUDENTS E. Cuenca Gallegos, W.D. Cruz López, P.A. Veintimilla Ramirez, L.J. Berrú Ayala, K.I. Solórzano Chavez, J.L. Armijos Carrión, Y.M. Portela Leiva, Y. Esquivel Rivero	8456
AUTOMATED SENTIMENT ANALYSIS AND EMOTION RECOGNITION FOR APPROPRIATE AUDIO RECOMMENDATION IN ONLINE INTERACTION ENVIRONMENTS G. Vitols, M.Y. Chan	8461
<b>REFLECTIONS IN ARCHITECTURE TEACHING: URBAN PROTOTYPING IN RESIDUAL</b> <b>SPACES</b> <i>N. Araujo, B. Veiga</i>	8468
DIDACTICAL DILEMMAS WITH MOBILE PHONES IN VOCATIONAL EDUCATIONAL CLASSROOMS S. Lundmark, J. Kontio	8476
PRACTICE-BASED LEARNING IN TIMES OF CRISIS IN THE CONDITION OF UNIVERSITY OF ŽILINA	8477
V. Sramova, A. Corejova, J. Jaros, K. Hornicka <b>ARE THERE ANY DIFFERENCES IN TRANSITION PRACTICES AMONG PRESCHOOLS</b> <b>IN SLOVENIA?</b> T. Grozde, M. Batistič Zorec, S. Tatalović Vorkapić	8486
<b>TEACHING MECHANICS OF BASIC MECHANISMS AT UNIVERSITY OF WEST</b> <b>BOHEMIA</b> <i>T. Keckstein, A. Max</i>	8494
<b>REVIEW OF LMS SYSTEMS DURING COVID-19 PANDEMIC</b> S. Abdymanapov, M. Muratbekov, S. Altynbek, A. Barlybayev	8499
<b>REFLECTIONS ON ACADEMIC PROJECTS AT THE UNIVERSITY LEVEL AND THEIR IMPACT ON THE LOCAL DEVELOPMENT OF COMMUNITIES</b> <i>C.P. Suarez Rodriguez</i>	8505
<b>LEARNING ABOUT SUSTAINABILITY THROUGH URBAN GARDEN PRACTICUM IN ENVIRONMENTAL ENGINEERING DEGREE</b> A. Lopez-Urionabarrenechea, I. Ortíz de Zárate, I. Agirrezabal-Telleria, M. Martínez-Santos, E. García- Ruiz, E. Saez de Camara Oleaga	8509
THE TECHNOLOGY OF TEACHING PROFESSIONALLY-ORIENTED FOREIGN LANGUAGE COMMUNICATION AT A NON-LINGUISTIC UNIVERSITY O. Frolova, V. Lopatinskaya	8510
NON-FORMAL EDUCATION AS A TOOL FOR REDUCING THE IMPACT OF THE FASHION INDUSTRY - THE CONTRIBUTION OF TO-BE-GREEN APP A. Marques, S. Moreira	8516
PERSONALIZED LEARNING IN SCIENCE EDUCATION: DESIGNING AN INTERNSHIP PROGRAM FOR RUSSIAN HIGH SCHOOL STUDENTS E. Osipovskaya, N. Pshenichny, M. Khorokhordina	8523
BEYOND THE USE OF SIMULATORS FOR THE TRAINING OF SECURITY AND DEFENCE FORCES: NEW CHALLENGES IN MODELING & SIMULATION OF EMERGING HOLISTIC SYSTEMS FOR COMBAT AIR FORCES M.A. Fernández-Villacañas Marín	8528
USING COVID-19 FOR A TEACHING EXPERIENCE IN DESIGN THINKING IN ENGINEERING DEGREES E. Arce, M.I. Fernández-Ibáñez, J.A. López-Vázquez, A. Suárez-García, M. Novo, J.L. Casteleiro, E. Jove, H. Quintián, F. Zayas, J.L. Calvo-Rolle	8538
DIGITAL STORYTELLING AS A TOOL TO SELF-ASSESS AND ENHANCE SOFT SKILLS: ANALYSING THE CERTIFY PROJECT AS CASE STUDY A. Liguori	8544

STUDENTS OF TEACHER PROGRAMMES USING THE SEMANTIC DIFFERENTIAL TO EVALUATE THE DEVELOPMENT OF CRITICAL AND MORAL THINKING M. Kosturková	8545
PROBLEM-BASED LEARNING AS AN ELECTIVE COURSE TEACHING METHOD AT UMT, MALAYSIA H. Salamun, A. Ab Rahman, F.K. Abdul Kadir, K. Abd. Kadir	8552
DISTANCE LEARNING IN TEACHER EDUCATION: LESSONS LEARNED FROM AN ONLINE ENGLISH FOR SPECIFIC PURPOSES TEACHER EDUCATION COURSE E. Kakoulli Constantinou	8559
INNOVATIVE TEACHING METHODOLOGIES FOR AN ONLINE ENGINEERING MATHEMATICS COURSE	8568
F. Soares, A.P. Lopes, A. Cellmer, A. Uukkivi, C. Feniser, E. Safiulina, G. Kelly, J. Cymerman, K. Brown, M. Latõnina, O. Labanova, V. Bocanet, F. Serdean, I. Kierkosz	
<b>TEACHING AND LEARNING DURING THE PANDEMIC: AN EXPLORATORY STUDY</b> <b>BASED ON INTERVIEWS WITH HIGHER EDUCATION TEACHERS AND STUDENTS</b> <i>P. Guimarães, C. Moreno</i>	8578
<b>POSITION OF STUDENTS OF AN HEI IN RELATION TO THE PREFERENTIAL</b> <b>EDUCATION REGIME IN TIME OF PANDEMIC</b> <i>S. Leite, P. Oliveira</i>	8586
GLOSSOPHOBIA IN UNIVERSITY GRADUATE DEGREES. THE SPANISH CASE. AN APPROACH TO ONLINE PUBLIC SPEAKING IN THE CONTEXT OF COVID-19 J. Marqués-Pascual, M.A. Violán	8587
<b>APPLIED PHYSICS INNOVATION AT HIGH SCHOOLS DURING THE CORONA-VIRUS</b> <b>PERIOD - A CASE STUDY FROM THE NETHERLANDS</b> <i>E. Brezet, J. Brezet</i>	8594
THE PHENOMENON OF FASCINATIVE EFFECT OF THE TEXT IN DISCOURSE WITH RESPECT TO THE TRANSLATION AND LANGUAGE TEACHING (BASED ON THE ITALIAN POLITICAL DISCOURSE) O. Pogoretskaya, N. Ivanov	8601
PRESENTATION OF AN INNOVATIVE PROJECT: CREATING AN ECO-CHEMICAL MODEL AND LABORATORY FOR TEACHING PRESERVATION OF WRITTEN CULTURAL HERITAGE I. Tsvetanska, I. Yankova, I. Peteva	8606
TRAINING IN RESTORATION AND CONSERVATION OF WRITTEN HERITAGE - A PRIORITY IN THE ACTIVITIES OF UNIVERSITY OF LIBRARY STUDIES AND INFORMATION TECHNOLOGIES I. Tsvetanska, I. Yankova, S. Stancheva, R. Vasileva	8613
EXPERIENCES OF HIGHER EDUCATION STUDENTS DURING THE COVID19 CONFINEMENT: ADVANTAGES, DISADVANTAGES AND DIFFERENCES BETWEEN FACE-TO-FACE AND REMOTE LEARNING F. Leal	8617
SEVEN PEDAGOGICAL DESIGN POINTS FOR USE OF VIDEOS IN XMOOC PLATFORMS ADAPTED FOR SOCIAL LEARNING H. Haugsbakken	8623
IMPROVING TEACHING AND LEARNING MATHEMATICS COURSES IN COMPUTER SCIENCE AND ENGINEERING STUDIES V. Dimitrova, A. Popovska-Mitrovikj, I. Chorbev, B. Joksimoski	8634
TRADITIONAL LEARNING V'S BLENDED LEARNING P. Somani	8641
INTERNATIONAL STUDY PROGRAM DEVELOPMENT FOR VET PROFESSIONALS IN GEORGIA M. Martsch, M. Massmann, H. Tegelbeckers	8648
THE ROLE OF THE SCHOOL LIBRARY IN CHANGE AND PEDAGOGICAL INNOVATION G. Bastos, I. Matias	8655
EMOTIONAL INTELLIGENCE COACHING HELPS LEADERS TO BE EFFECTIVE IN VUCA TIMES L. Fierro, B. Zoghi	8664
<b>INNOVATION FOR NATURAL RISK PREVENTION THROUGH VIRTUAL REALITY</b> U. Depaz Sandon, J. Herrera Quispe, L. Albino Alva, J. Castromonte Miranda, S. Wegner	8668

BARRIERS TO TECHNOLOGY INTEGRATION INTO TEACHING CHINESE AS A FOREIGN LANGUAGE: A CASE STUDY OF AUSTRALIAN SECONDARY SCHOOLS Y. Zeng	8677
THE USE OF TIMELINES AS A STRATEGY FOR TEACHING LEGISLATION ISSUES TO IT ENGINEERING DEGREE STUDENTS M. Fernández-Diego, F. González-Ladrón-de-Guevara, L. Ruiz, A. Boza	8678
CHALLENGE-BASED LEARNING: HOW TO LEARN MARKETING IN HEALTHCARE STUDIES? A. Jimenez-Zarco, A. Izquierdo-Yusta, M. Cerdan-Chiscano, M.P. Martinez-Ruiz	8684
<b>EXPERIENCES IN EDUCATION: A GLAM LABS APPROACH</b> M.D. Sáez, P. Escobar, G. Candela, M. Marco-Such	8685
A FIRST FEEDBACK ON THE USE OF TANDEM CANADA, A WEB PLATFORM FOR LANGUAGE LEARNING IN TANDEM L. Capus, S. Parks, S. Priego	8689
SCHOOL CONSTRUCTION SITES AT HOME. MANUAL SKILL IN DISTANCE TEACHING EXPERIENCES G. Ausiello, M. Compagnone, A. Palomba, I. Piscopo, F. Sommese	8694
<b>STUDENT PERCEPTION OF CLINICAL SIMULATIONS AS A TEACHING TOOL</b> <i>M. Elie</i>	8704
<b>OPPORTUNITIES TO ALLOW A STUDENT TO REALISE HIS PLANS WITHIN A FORMAL PHYSICS EDUCATION</b> <i>P. Demkanin, M. Kováč</i>	8705
SELECTED ASPECTS OF TUTORING AND SCAFFOLDING PRE-SERVICE PHYSICS TEACHERS P. Demkanin, S. Novotná	8710
STUDENTS' INDEPENDENT WORK IN UNIVERSITY DISTANCE LEARNING ENVIRONMENT I. Rodionova, O. Titova, E. Konisterova, I. Chistyakova, I. Golovina	8717
SKILLS OF CRITICAL READING: TECHNOLOGY OF DEVELOPMENT AND WAYS OF IMPROVEMENT I. Rodionova, O. Titova	8723
DIGITAL MEDIA IN SCIENCE AND SOCIAL STUDIES TEACHING A. Letina, V. Filko	8730
WOMEN'S PREFERENCES TOWARDS STEM MAJORS IN PERU: A STUDY FROM SOCIAL STEREOTYPES AND PARENTAL RESISTANCE I. Montes-Iturrizaga, E. Franco-Chalco	8740
SIMULATION TEACHING AND RESEARCH OF PARAMETERS OF INTEGRAL AMPLIFIERS IN THE MULTISIM ENVIRONMENT D. Shehova, S. Lyubomirov	8747
COMPUTER MODELING AND RESEARCH OF DIODE RECTIFIERS AND VOLTAGE REGULATORS D. Shehova, S. Lyubomirov	8754
THE CHALLENGES AND PROSPECTS OF ONLINE EDUCATION IN THE COVID-19 ERA: AN ECOLOGICAL PERSPECTIVE C. Wu, X. Gao, Y. Gao	8760
STUDENT TEACHERS' PERCEPTIONS AND EXPERIENCES OF CERTAIN MODULES WITHIN A TRANSFORMED CURRICULUM E. Groenewald, A. Mpisi	8761
READING LITERACY IN THE FOREIGN LANGUAGE. THE KEY POSITION OF THE INPUT TEXT AND ITS SELECTION N. Rusnáková, M. Kučerková	8762
DEVELOPMENT OF A LEARNING SITUATION VISUALIZATION SYSTEM WITH A MODULE TO SWITCH BETWEEN VARIOUS LEARNING ANALYTICS FOR PERSONALIZED LEARNING K. Mabuchi, Y. Morimoto	8768
<b>STATISTICAL SENSE AND GRAPHS IN THE COVID ERA</b> J.A. Garzón-Guerrero, S. Valenzuela, C. Batanero	8779
<b>INTERNET VIDEOS FOR STUDYING THE MEDIAN</b> S. Valenzuela, J.A. Garzón-Guerrero, R. Álvarez-Arroyo	8788

AN EXPERIENCE FOR REFLECTIVE PRACTICE AND FEEDBACK IN A PHARMACY DEGREE SUBJECT	8795
A. Nardi-Ricart, J. Suñer Carbó, A. Del Pozo Carrascosa, L. Pons Seguí, M. Celdrán Espejo, M. Gracia Martínez, E. Cano García, L. Halbaut Bellowa	
DASHBOARDS AND VISUALISATION TOOLS FOR ENHANCING CREATIVITY IN BUSINESS MASTER STUDENTS F. González-Ladrón-de-Guevara, M. Fernández-Diego	8799
THE CIVIL AND POLITICAL ACTIVITY OF RUSSIAN STUDENTS: HOW IT LOOKS LIKE TODAY AND WHAT SKILLS IT DEVELOPS? Y. Didkovskaya, S. Masorov	8805
<b>EVOLUTION OF DOCTORAL CO-SUPERVISION AT THE UNIVERSITY OF THE BASQUE</b> <b>COUNTRY (UPV/EHU)</b> <i>G. Barandika, I. Astorkiza, O. González-Abrisketa, E. Portillo, E. Simon</i>	8809
PILOT EXPERIENCE TO INCREASE THE ENVIRONMENTAL AWARENESS OF YOUNG STUDENTS (12-18 YEARS) THROUGH INNOVATING FORMATION BY UPM RESEARCHERS IN THE CLASSROOM C. Calderón-Guerrero, M. Martínez Núñez, S. Sastre Merino, M. Marchamalo	8815
<b>THE ADAPTATION OF SEVERAL HEALTH SCIENCE DEGREES TO THE</b> <b>VIRTUALIZATION OF UNIVERSITY EDUCATION IN THE TIME OF CORONAVIRUS</b> <i>R. López-Liria, M. Fernández-Sánchez, M.A. Querol-Zaldívar, P. Rocamora-Pérez</i>	8824
<b>DERMOGRAPHISM AND CLINICAL CASES IN THE DEGREE OF PHYSIOTHERAPY</b> R. López-Liria, M. Fernández-Sánchez, M.A. Querol-Zaldívar, P. Rocamora-Pérez	8829
WHAT IS THE INITIAL MOTIVATION OF UNIVERSITY STUDENTS AND WHAT FACTORS DEPEND ON BEFORE STARTING A COURSE? C. Marín, M. Moro, S. Dieguez, J.A. Piqueras, S. Panadero, V. Rubio	8834
ACTIVE SEMINARS IN CANCER BIOLOGY AND STEM CELLS IN 1ST COURSE IN MEDICINE: CONNECTING THE BASICS AND THE CLINICAL M. Alonso-Chamorro, B. Herranz	8840
UNIVERSITY STUDENTS PERCEPTION OF THE USEFULNESS OF THE MASTER CLASS VS FLIPPED LEARNING AND AUDIOVISUAL RESOURCES C. Marín, M. Moro, S. Dieguez, S. Panadero, J.A. Piqueras, V. Rubio	8846
<b>PROJECT-BASED APPROACH IN AUDIOVISUAL TRANSLATION AND LOCALISATION</b> D. Maumevičienė, J. Maksvytytė	8854
SMART PHYSICAL EXERCISES IMPROVE A FOREIGN LANGUAGE ACQUISITION IN A NON-LINGUISTICS UNIVERSITY E. Liakhova, N. Moroz, E. Tsatskina, L. Ivina, O. Perlova	8859
IMPLEMENTATION OF PROBLEM-BASED LEARNING IN BUILDING AND DEVELOPING A CULTURE OF CYBERSECURITY IN A UNIVERSITY INFORMATION ENVIRONMENT I. Peteva, S. Denchev, K. Bosakova	8867
TEACHING APPROACHES WITHIN THE NEW ONLINE PROGRAM IN MEDICINE DURING COVID-19 TO ENFORCE ENGAGEMENT AND SELF-REGULATED LEARNING M. Alonso-Chamorro, R. Ruiz Moral	8872
<b>STUDENTS' INTERACTION IN SOCIAL COLLABORATIVE PROBLEM-BASED</b> <b>LEARNING ENVIRONMENT TO PROMOTE STUDENTS' COGNITIVE PERFORMANCE</b> <i>W.N.T. Wan Hussin, J. Harun, N. A. Shukor</i>	8879
<b>ORGANIZATIONS – LEADERS IN THE PROMOTION OF MOBILE LEARNING</b> <i>E. Tsvetkova</i>	8888
DEVELOPING STUDENTS' COLLOCATIONAL COMPETENCE VIA ELECTRONIC LINGUISTIC CORPORA S. Reztsova, A. Rybakova	8896
FOREIGN LANGUAGE TRAINING BASED ON THE METHODS OF MEASURING THE EFFICIENCY OF PUBLIC RELATIONS ACTIVITY IN A NON-LINGUISTIC UNIVERSITY E. Liakhova, N. Moroz, E. Tsatskina, L. Ivina, O. Perlova	8901
WHEN PRIVATE BECOMES PUBLIC. HOME SPACE AS A WORK PLACE IN THE SITUATION OF THE LOCKDOWN FROM STUDENTS' PERSPECTIVE K. Rychlicka-Maraszek	8907
ON SIMCITY AS A DIGITAL EXPERIENCE SPACE FOR THE COMPETENCIES DEVELOPMENT IN THE CONTEXT OF EDUCATION FOR SUSTAINABLE DEVELOPMENT A Schweider M Henget P. Nuce	8908

A. Schneider, M. Hengst, R. Nuss

<b>DETERIORATING WORKING CONDITIONS IN ACADEMIA – THE BEST WAY TO SECURE MERITOCRACY?</b> <i>T. Carvalho</i>	8916
PROFEDU - AN ONLINE EDUCATIONAL NETWORK FOR SUPPORTING THE LEARNING PROCESS AND INCREASING THE MOTIVATION OF THE STUDENTS USING INTERDISCIPLINARY TRAININGS WITH PRACTICAL ORIENTATION S. Tsvetanov, T. Papapostolu	8924
KEEPING ADULT LEARNERS ENGAGED IN DISTANCE LEARNING DURING TIMES OF CRISIS: REFLECTIONS ON THE DECISION MAKING OF EXPERIENCED WORKERS DURING COVID USING THE ANALYTICAL LENS OF BEHAVIOURAL SCIENCE G. Creaner, S. Creaner, C. Creaner	8928
<b>TEACHERS' EXPERIENCES AND PERCEPTIONS REGARDING MOBILE AUGMENTED</b> <b>REALITY GAMES: A CASE STUDY OF A TEACHER TRAINING</b> <i>M. M. Marques, L. Pombo</i>	8938
APPLICATION OF SOFTWARE PRODUCTS FOR REMOTE CONTROL OF ELEMENTS OF THE POWER SUPPLY SYSTEM IN THE TRAINING OF STUDENTS MAJORING IN POWER ENGINEERING AND ELECTRICAL EQUIPMENT V. Ruseva	8948
<b>TEACHERS' KNOWLEDGE FOR TEACHING MATHEMATICS WITH TECHNOLOGY: AN</b> <b>ANALYSIS OF DIFFERENT FRAMEWORKS</b> <i>H. Rocha, M.C. Botelho</i>	8954
FROM CLASSROOM TEACHING TO DISTANCE LEARNING: THE EXPERIENCE OF PORTUGUESE MATHEMATICS TEACHERS H. Rocha, P. Palhares, M.C. Botelho	8961
IMPLEMENTING THE FLIPPED COMPUTER SCIENCE LEARNING APPROACH TO FOSTER LEARNING AUTONOMY SKILLS: A QUALITATIVE STUDY WITHIN COMPULSORY EDUCATION M. Alwaqdani, C. Walker-Gleaves	8969
<b>UNDERSTANDING THE CHALLENGES OF KNOWLEDGE MANAGEMENT IN THE</b> <b>PUBLIC SECTOR: CASE OF DEPARTMENT OF EDUCATION, PINETOWN DISTRICT</b> <i>K. Ngwane, N. Mthembu</i>	8974
<b>TEACHING DEMOCRACY IN POST-ARAB SPRING</b> A. Al-Qteishat, M.H. Hawamdeh, O.N. Sawalha, H.H. Alhaded, A. Shavtikova	8980
<b>EXPLORING THE CRITICAL CHALLENGES AND FACTORS INFLUENCING THE E- LEARNING SYSTEM IN JORDAN DURING A COVID-19 PANDEMIC</b> A. Al-Qteishat, M.H. Hawamdeh, N.N. Yagodka, H.H. Alhaded, A. Shavtikova	8985
<b>MOVIE IN EDUCATION</b> <i>I.M. Oprea</i>	8991
ANALYSIS OF THE PLAY AIDS DIDACTIC POSSIBILITIES FOR CHILDREN WITH THE NERVOUS SYSTEM DISEASES V. Skliadneva, S. Lazurenko, A. Golubchikova, I. Nurlygayanov	8996
TESTING THE BYOD APPROACH FOR TEACHING PHYSICAL ACTIVITY: AN OPPORTUNITY FOR PROMOTING HEALTH BEHAVIOR DURING COVID19 RESTRICTIONS V. Agosti	9002
GENERIC KINESIOLOGY COMPETENCES ASSESSMENT OF COACHES DURING LIFELONG LEARNING V. Horvat, S. Jenko Miholić, N. Maras	9007
<b>THE FUTURE OF LEARNING ENVIRONMENTS WITH ARTIFICIAL INTELLIGENCE</b> <b>AND MACHINE LEARNING</b> F. Eftekhari, M.M. Samsami	9015
MODEL OF AN INTERACTIVE GAME ENVIRONMENT FOR LEARNING OF NATIONAL HISTORY N. Noev, G. Bogdanova, T. Todorov	9025
USING TED TALKS IN TEACHING ENGLISH AT UNIVERSITY LEVEL S. Khanbalaeva, E. Antonova	9031
PLASTIC VS BIOPLASTIC - DEGRADABLE AND COMPOSTABLE WASTES IN EVERYDAY LIFE - AN E-LEARNING PROCESS IN INQUIRY BASED SCIENCE EDUCATION A. Severi, C. Polverini	9037
<b>TEACHING VISUAL LITERACY: MULTI-MODAL TEXT</b> S. Khanbalaeva, E. Antonova	9041

USING A MANUFACTURING EXECUTION SYSTEM (MES) IN A PROJECT BASED LEARNING CONTEXT IN THE MASTER DEGREE IN ORGANISATIONAL AND LOGISTICS ENGINEERING M. Diaz-Madroñero, R. Poler, F. Fraile, R. Sanchis	9045
PROJECT DESIGN METHODS AND UPCYCLING OF FASHION PRODUCTS IN BACHELOR CURRICULA OF FASHION DESIGN COURSES A. Marques, P. Azambuja	9056
DIGITAL TECHNOLOGIES AND RESOURCES IN TEACHING RUSSIAN GRAMMAR TO FOREIGNERS UNDER LOCKDOWN V. Kurilenko, Y. Biryukova, T. Cherkashina, N. Romanova	9062
CHEMICAL ITINERARY. FROM CONTEXTUALIZATION TO GAMIFICATION: A NATURAL EVOLUTION J. Duran, J. Fernández-Martínez, P. Cornellà, J. Ametller	9070
EARLY CHILDHOOD CURRICULUM: FROM CONCEPTUAL CLARITY TOWARDS THE RESEARCH OF PERSONAL PRACTICE L. Vujičić	9077
<b>TEACHING PROJECT MANAGEMENT WITH A SMART GIRL</b> P. Fanta	9086
PRESCHOOL TEACHERS 'ATTITUDES TOWARDS THE USE OF OUTDOOR SPACE AS LEARNING PLACE L. Vujičić, A. Čamber Tambolaš, S. Zlatar	9092
UNDERSTANDING COMMUNICATION AND PUBLIC RELATIONS STUDENTS` EXPECTATIONS OF DISTANCE LEARNING THROUGH ICT. PERSPECTIVES IN TIMES OF CRISIS D.A. Radu, R.S. Ciochină	9102
THE ENTREPRENEURIAL MOTIVATIONS AND OBSTACLES OF STUDENTS' BELONGING TO A PRIVATE AND PUBLIC HEI: CASE ECUADOR S. Astudillo, D. Cordero, V. Bermeo, A.L. Serrano	9112
THE INTENSIVE USE OF A COMPUTED BASED LSQ AS A WAY TO MAINTAIN EDUCATIONAL ENGAGEMENT DURING PANDEMIC LOCKDOWN R. Castro, D. Soares, B. César	9120
ECONOMICS AND MATHEMATICS: A TRANSDISCIPLINARY PATH USING GEODYNAMICAL MODELS AND COMPUTATIONAL SOFTWARE G. Bimonte, F.S. Tortoriello, I. Veronesi	9128
THE IMPACT OF THE PANDEMIC ON ATTITUDES AND PERCEPTIONS OF STUDENTS IN AN MBA ANALYTICS COURSE D. Morin	9132
<b>TEACHING INDUSTRIAL DESIGN AS AN ASPECT OF LOCAL BUSINESS</b> <b>DEVELOPMENT</b> J. Alarcón Castro, E. Durán, J. Brañes Alarcón, A. Llorens Vargas	9142
EXPANDING TECHNOLOGICAL CAPABILITIES: WOMEN AND MINORITIES STRENGTHENING THEIR MICRO ENTERPRISES THROUGH EDUCATION, DESIGN AND INNOVATION J. Alarcón Castro, G. Ormeño Bustos, J. Brañes Alarcón	9148
SEMIVIRTUAL EDUCATIONAL THEME PARK ON RENEWABLE ENERGIES AND BIODIVERSITY. AN EXPERIMENTAL EDUCATIONAL DESIGN WITH AUGMENTED REALITY IN PERU'S UPPER AMAZON CLOUDFOREST F. Trama, A. Hurtado, L. Erbure, M. Berto, H. Waller, V. Dias, F. Rizo-Patrón	9152
A DATA ENVELOPMENT ANALYSIS MODEL TO EVALUATE OVER TIME THE PUBLIC- HEIS' RELATIVE EFFICIENCY L.A. Moncayo-Martinez	9153
SUPPORTING UNIVERSITY TEACHERS THROUGH THE RAPID SHIFT FROM FACE-TO- FACE TO ENHANCED ONLINE TEACHING DURING THE COVID-19 PANDEMIC V. Fester, C. Annabell	9163
<b>THE IMPACT OF LEADERSHIP COMPETENCY AMONG MALAYSIAN ACADEMICIAN</b> <b>DURING INDUSTRIAL ATTACHMENT: MALAYSIAN CASE STUDY</b> <i>S. Ahmad Sabri, A. Mohd Yusof, S. Ya'acob, N. Mohd Abbas, Z. Abal Abas, R. Azmi, W.O.A.S. Wan</i> <i>Ismail, W.F.W. Wan Fakhruddin, R. Che Me</i>	9172
PEDAGOGICAL INNOVATION OR DISRUPTION: REFLECTION ON OPEN DISTANCE LEARNING IN 2020	9180

J. Zhang, S. Yu

<b>CREATIVE ONLINE CLASSES PLAYFUL LEARNING WITH GAMIFICATION</b> M. Acosta Yela, R. Samaniego Ocampo, D. Soto Roa, N. Armijos Samaniego, J. Delgado Ramírez, H. Quevedo Mendoza	9185
<b>EVALUATING COMPETENCES STRATEGIES DURING COVID-19</b> J. Cano, C. Simón de Blas, A.E. García Sipols, S. Hernández Alonso, K.H. Rojas Patuelli	9191
BRIDGING THE GAP BETWEEN GOVERNMENT-INDUSTRY-UNIVERSITY COLLABORATION THROUGH CEO@FACULTY PROGRAMME	9198
R. Azmi, W.F.W. Wan Fakhruddin, R. Che Me, A. Mohd Yusof, W.O.A.S. Wan Ismail, Z. Abal Abas, N. Mohd Abbas, S. Ahmad Sabri, S. Ya'acob	
THE LINK BETWEEN THE COOPERATIVE APPROACH AND THE USE OF MULTIMEDIA MEANS IN UNIVERSITY EDUCATION IN WESTERN ROMANIA N.R. Ciobanu	9205
GENERAL AND COMMUNICATION IMPACTS OF THE COVID-19 PANDEMIC ON HIGHER EDUCATION: GLOBAL AND UKRAINIAN DIMENSIONS O. Kovtun, N. Melnyk, S. Grynyuk, I. Rohalska-Yablonska	9212
FROM PEDAGOGICAL PRINCIPLES TO THE PEDAGOGICAL PROJECT. THE EXPERIENCE OF SAN MICHELE EDUCATIONAL GARDEN F. Maroldi, G. Vitale, D. Balconi, A.F. Tanyous, L. Tidoni	9222
<b>FROM SPACES TO PLACES. THE CONSTRUCTION OF THE SAN MICHEL</b> <b>EDUCATIONAL GARDEN</b> <i>F. Maroldi, G. Vitale, F. Villa, D. Balconi, M. Lunati</i>	9233
<b>BLENDED TUTORING OF HIGHER EDUCATION STUDENTS DEVELOPING THEIR</b> <b>MASTER THESIS</b> <i>C. Perez-Cabañero, L. Andreu, E. Bigné</i>	9244
PROMOTING AN EXTRA-CURRICULAR LEARNING EXPERIENCE FOR MEDICAL STUDENTS: REFLECTIONS ON THE IMPACT OF 2020 HYBRID TEACHING MODES AND COVID-19 ON THE MEDICAL STUDENTS S. Pillai, A. Efstathiadou, U. Aujayeb, A. Shawley, C. Nguyen, G. Vairaperumal	9252
INTEGRATION OF TEACHING INNOVATION METHODOLOGIES: FLIPPED CLASSROOM AND ROLE PLAY IN UNIVERSITY TEACHING J. de Pablo Valenciano, J. Milán García, J. Uribe Toril, A. Carretero Gómez, N. Rueda López, R.M. Martínez Vázquez, J.L. Ruiz Real	9253
AN EXPERIENCE OF ACTIVE ONLINE PROGRAMMING CLASS DURING COVID-19 FOR ENGINEERING UNDERGRADUATES A. Ohno	9257
USING A PEER MENTORING PROGRAMME TO INTRODUCE INTERNATIONAL STUDENTS TO INDIGENOUS CULTURE D. Lopez	9264
E-LEARNING IN MASTER CLASSES DURING COVID 19 D. Lopez	9265
APPLICATION OF TRAINING PILLS IN THE SUBJECT OF EUROPEAN UNION ECONOMICS AT THE UNIVERSITY OF ALMERIA J. de Pablo Valenciano, J. Milán García, J. Uribe Toril, A. Carretero Gómez, N. Rueda López, R.M. Martínez Vázquez, J.L. Ruiz Real	9271
BUILDING GROWTH MINDSET IN HIGHER EDUCATION CLASSROOMS M. Hunter	9276
WELL-BEING AS AN INDICATOR OF THE UNIVERSITY STUDENTS' PREADAPTATION TO THE COVID-19 E. Soloveva, L. Fedina, M. Muravyeva, I. Latypova	9281
<b>THE CAUSES OF VALLEY OF DEATH: A LITERATURE REVIEW</b> A. Al Natsheh, S.A. Gbadegeshin, K. Ghafel, O. Mohammed, A. Koskela, A. Rimpiläinen, J. Tikkanen, A. Kuoppala	9289
<b>DISTANCE LEARNING SOLUTIONS FOR PANDEMIC AND POST-PANDEMIC TIMES</b> L. Grecu, A.M. Zamfir	9299
<b>INFORMATION PORTAL FOR PROMOTING PROJECTS FOR MOBILE LEARNING</b> E. Tsvetkova, I. Peteva, S. Denchev	9300
<b>TEACHING CROP FERTILIZER REQUIREMENTS WITH THE NUTRIENT</b> <b>RECOMMENDATION MODEL FERTILICALC</b> <i>A. López Bernal, M. Quemada, A. Delgado, F. Villalobos</i>	9306
THE NEED FOR CYBER THREAT INTELLIGENCE FOR DISTANCE LEARNING PROVIDERS AND ONLINE LEARNING SYSTEMS I. Bandara, C. Balakrishna, F. Ioras	9312

WHERE IS GENDER? A MISSING VARIABLE IN SCIENTIFIC RESEARCH C. Jordão, S. Diogo, T. Carvalho	9322
ORAL VERSUS WRITTEN ASSESSMENT: UNIVERSITY STUDENT'S OPINION IN HEALTH SCIENCES. A COMPARATIVE STUDY P. Padrós-Flores, M.C. Grijota-Martínez, V. Gómez-Vicente, G. Esquiva Sobrino, J.V. García Velasco, E. Ausó Monreal	9329
ANALYSIS OF THE STUDENT'S PERCEPTION REGARDING THE IMPLEMENTATION OF THE GENDER PERSPECTIVE IN BASIC HEALTH SCIENCE SUBJECTS A. Fernández Orgiler, R. Pérez-Rodríguez, M.V. Gómez-Vicente, E. Ausó Monreal, G. Esquiva Sobrino	9333
SOME PECULIARITIES OF TRANSLATION OF ENGLISH FAIRY TALES A. Shmakova	9338
<b>THE INFLUENCE OF HUMAN-COMPUTER INTERACTION FACTORS IN E-LEARNING</b> W.P. Lu, Y.M. Cheng	9343
<b>EVOLUTION AND PROGRESS OF CORPORATE SOCIAL RESPONSIBILITY.</b> <b>RELATIONSHIP WITH THE EDUCATIONAL SECTOR</b> <i>E.C. Dittmar, D. López Jiménez</i>	9350
FROM ONSITE TO REMOTE PRACTICAL LEARNING IN FUNDAMENTALS OF BIOTECHNOLOGY PROCESSES ENGINEERING I COURSE M.L. Castelló Gómez, A. Heredia Gutiérrez, J. Calvo-Lerma, A. Asensio-Grau, P.J. Fito	9358
USING THE GAME "THE BUILDINGS" FOR INCREASING THE LOGICAL REASONING IN SECONDARY EDUCATION C. Jiménez Hernández, C. Jordán, A.A. Magreñán, L. Orcos	9367
AUDIOVISUAL PRODUCTION IN MOOCS: HOW TO MAKE EDUCATIONAL VIDEOS A. De Rosa	9375
MATHMAGIC AS A LEARNING TOOL FOR ALGEBRAIC LANGUAGE AND GEOMETRY LEARNING C. Jiménez Hernández, C. Jordán, A.A. Magreñán, L. Orcos	9385
IMPLEMENTING INSTAGRAM APP AS AN EDUCATIONAL TOOL IN HIGHER EDUCATIONAL ESTABLISHMENTS (CREATIVE APPROACH) R. Avedova	9393
STUDENTS' ENTREPRENEURIAL INTENTION IN RELATION TO ASSESSMENT OF PERSONAL ENTERPRISE AND PERSONALITY DIMENSIONS D. Luketić	9398
<b>CHARACTERISTICS ASSOCIATED WITH POSITIVE MENTAL HEALTH IN NURSING</b> <b>STUDENTS IN TIMES OF COVID-19</b> <i>G. Moran Paredes, J. Zeladita Huaman, E. Barboza, O. Mariñas, K. Jauregui</i>	9411
ACADEMIC INTEGRITY IN SPANISH UNIVERSITIES: ANALYSIS OF THE ANNUAL REPORTS OF UNIVERSITY OMBUDSMEN R. Comas Forgas, J. Sureda Negre, B. Mut Amengual, A. Cerdà Navarro, M.I. Sánchez-Escribano	9418
ASSOCIATION BETWEEN THE USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES WITH TECHNOSTRESS IN NURSING STUDENTS J. Zeladita Huaman, G. Moran Paredes, S. Huyhua, T. Espinoza Moreno, J. Mantari, R. Zegarra Chapoñan	9419
FAKE NEWS RECOGNITION AMONGST UNDERGRADUATE STUDENTS B. Llodrà Riera, F. Mas Parera, D. Abril Hervás, B. Mut Amengual, A. Cerdà Navarro, R. Comas Forgas	9427
COVID-19: BUSINESS MODEL INNOVATION THROUGH DIGITAL TRANSFORMATION IN PAID EDUCATIONAL SERVICES S. Trinkūnienė, L. Juškaitė	9428
INTERDISCIPLINARY SCIENTIFIC STUDY RESEARCH WITH TECHNOLOGY- ENHANCED LEARNING C. Aramo, R. Colalillo, F.S. Tortoriello, I. Veronesi	9437
HOW TO GUIDE CHEMICAL ENGINEERING STUDENTS IN THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS C. Carbonell, S. Cardona, I. Dominguez-Candela, V. Fombuena, M.F. López-Pérez, J. Lora	9442
HOW TO HANDLE A BLACK SCREEN: CONTINUING EDUCATION OFFERS FOR TEACHERS OF VISUALLY IMPAIRED PUPILS TO PROMOTE DIGITAL LITERACY OF THE LEARNERS J. Feldmann	9451
CREATIVITY OR NECESSITY, THE FORCE BEHIND THE ENTREPRENEURIAL SPIRIT AMONG STUDENTS A. Pietraszek, V. Cieslak	9456

A SCHOOL MOVIE FESTIVAL: DEVELOPING IMAGINATION, CREATIVITY AND COMMUNICATION OF PRIMARY SCHOOL CHILDREN BY MAKING PHOTOS AND SHORT VIDEOS K.M. Barth	9460
USING OF VIDEO AND IMAGES IN TEACHING HISTORY M. Tepelea	9464
BIDIRECTIONAL TRANSFER OF QUALITY, COMMUNICATION AND GOOD PRACTICES BETWEEN THE ONSHORE - OFFSHORE INDUSTRIAL DOMAIN AND THE REPRESENTATIVE UNIVERSITY UNDERGRADUATE FIELDS I. Popovici, M. Cotrumba, A.D. Moraru, M. Caraivan	9469
THE SCHOOL MICROCLIMATE THAT PROMOTES PUPILS' SCHOOL ENGAGEMENT: WHAT IS THE TEACHERS' ROLE? A. Meškauskienė, A. Juškevičienė	9475
<b>METHODS AND PRINCIPLES OF MODERN CHINESE LEARNING</b> Y. Zeng, S. Li, L. Hairula	9484
<b>STRESS IN STUDENTS' SPEECHES</b> K. Welnitzova	9490
<b>NEED FOR POST-EDITING IN TRANSLATORS' TRAINING?</b> K. Welnitzova, D. Munkova	9499
AN INTELLIGENT MODULAR STUDENT DESK A. Prinianakis, H. Stefanidi, A. Leonidis, M. Korozi, A. Katzourakis, E. Stamatakis, M. Antona	9508
EYE-TRACKING-BASED DESIGN OF MIXED REALITY LEARNING ENVIRONMENTS IN STEM	9519
D. Sonntag, O. Bodensiek USING THE WORDPRESS SYSTEM FOR THE IMPLEMENTATION OF STUDENT PROJECTS DURING THE COURSE: FUNDAMENTALS AND TECHNOLOGIES OF THE ELECTRONIC ECONOMY	9525
K. Baran, P. Kopniak, G. Kozieł EDUCATION DURING LOCKDOWN: AN ANALYSIS OF AN IT (SOFTWARE) TEAM PROJECT BY STUDENTS OF THE LUBLIN UNIVERSITY OF TECHNOLOGY G. Kozieł, P. Kopniak, K. Baran	9535
<b>INVESTIGATION OF FIRST YEAR STUDENTS OPINION ON DISTANT EDUCATION</b> <b>DURING THE COVID-19 SITUATION</b> <i>K. Gabrovska-Evstatieva, G. Atanasova</i>	9545
<b>TEACHERS' ATTITUDES TOWARD CLASSROOM OBSERVATION: THE AFFECTIVE</b> <b>COMPONENT</b> <i>A.E. Martinez Vargas, S. Redondo Duarte</i>	9553
HOW DOES THE USE OF DIGITAL PLATFORMS IMPACT ON STUDENTS MARKS AT HIGH EDUCATION?	9559
A. Esteso, M.A. Rodriguez, F. Alarcón, J.M. Prats-Montalbán ANALYSIS OF DIGITAL TEACHING TOOLS IN THE NEW EDUCATIONAL PARADIGM M.A. Rodriguez, A. Esteso, M.M.E. Alemany, A. Boza	9564
<b>DECIPHERING THE STRATEGIC CLOCK HANDS: FROM THEORY TO REALITY</b> J. Villagrasa, F. Sánchez, C. Donaldson	9571
A GENERAL MODEL FOR DESIGN AND DEVELOPMENT OF DIGITAL INTERACTIVE LEARNING RESOURCES BY TEACHERS T. Zafirova-Malcheva, P. Mihnev	9585
<b>LIFELONG EDUCATION AND TEACHING IN THE PANDEMIC</b> E. Brito, J. Mateus, C. Fonseca	9596
ADAPTING GENERAL MODEL FOR DESIGN AND DEVELOPMENT OF DIGITAL INTERACTIVE LEARNING RESOURCES FOR THE NEEDS OF SPECIAL EDUCATION T. Zafirova-Malcheva, P. Mihnev	9606
DIGITAL LEADER AND TRANSFORMATIONAL LEADERSHIP IN HIGHER EDUCATION H. Antonopoulou, C. Halkiopoulos, O. Barlou, G. Beligiannis	9616
COGNITIVE PARAMETERS DETECTION VIA GAMIFICATION IN ONLINE PRIMARY EDUCATION DURING COVID-19 H. Antonopoulou, A. Katsibelis, C. Halkiopoulos	9625
<b>STUDENTS' WELL-BEING AND SELF-ORGANIZATION IN THE PREADAPTATION</b> <b>STRUCTURE DURING THE COVID-19 SECOND WAVE</b> <i>G. Kuhterina, E. Soloveva, L. Fedina, M. Muravyeva, I. Latypova</i>	9633

STUDENTS' PERCEPTION REGARDING THE ADVANTAGES AND DISADVANTAGES GIVEN BY THE E-LEARNING AND THE MOBILE LEARNING APPLICATIONS DURING THE COVID-19 PANDEMIC	9640
A.M. Nedelcu, L.G. Ofițeru, C. Bălan, D. Zamfir STUDENTS' PERCEPTIONS OF THE TEACHING AND LEARNING MODE ADOPTED IN THE MSC IN ACTUARIAL SCIENCE AT THE UNIVERSITY OF MÁLAGA DURING COVID-19 FIRST WAVE M.C. Mayorga-Toledano, A. Fernández-Morales	9650
USING AN ON-LINE INTERACTIVE GRAPHICAL SIMULATOR TO EXPERIMENT WITH LATE-LIFE MORTALITY MODELS A. Fernández-Morales, M.C. Mayorga-Toledano	9656
THE PERCEPTION OF TEACHERS IN ROMANIA REGARDING THE ADVANTAGES AND DISADVANTAGES OFFERED BY E-LEARNING AND MOBILE LEARNING APPLICATIONS DURING THE COVID-19 PANDEMIC A.C. Radu, L.G. Ofițeru, I. Stoica (Răpan), A.M. Nedelcu	9663
MAINTAINING THE CONFIDENCE IN HIGHER EDUCATION AND MOTIVATION DURING DISTANCE LEARNING I. Peteva, M. Pavlova, K. Bosakova	9672
THE KNOWLEDGE GRAPH APPLICATION IN LANGUAGE LEARNING STUDY CASE: CHINESE LANGUAGE J. Naranjo, V. Stoffová, C. Zhu	9677
STUDENTS' PERSPECTIVES ON THE USE OF FILMS AND IMAGES IN THE TEACHING APPROACH M.C. Florescu, I.S. Cuc	9684
THE ART OF WRITING OR THE WRITING FOR ART IN COVID TIMES I. Harbali	9690
<b>FROM ONE FAIRY TALE TO ANOTHER - A PLAYFUL FORM OF TEACHING ENGLISH</b> <b>WITH THE SUPPORT OF ICT</b> <i>V. Stoffová, S. Némethová, J. Naranjo</i>	9697
<b>RE-IMAGINING STUDENTS' MASTER THESIS GUIDANCE IN THE VIRTUAL</b> <b>LEARNING ENVIRONMENT</b> <i>A. Nikina-Ruohonen, S. Heiniö</i>	9705
GAMIFICATION OF THE POLYMER CHEMISTRY UNDERGRADUATE COURSE, A POWERFUL TOOL TO IMPROVE LEARNING AND TRANSVERSAL SKILLS L. Ruiz Rubio, L. Pérez-Álvarez, A. Veloso, J.L. Vilas Vilela	9712
<b>DEVELOPMENT OF A SYSTEMS ENGINEERING APPRENTICES E-PORTFOLIO</b> <b>BUILDER USING MICROSOFT ONENOTE CLASS NOTEBOOK</b> <i>T. Dube, S.R. Williams, C.T. Nwabunike</i>	9716
<b>EXTERNAL LINK ACTIVITIES AND ACADEMIC CAREERS IN PORTUGUESE HIGHER</b> <b>EDUCATION INSTITUTIONS</b> <i>P. Rocha, T. Carvalho, C. Rodrigues</i>	9722
<b>RESEARCH BASED LEARNING PROJECT FOR THE RESPONSIBLE PRODUCTION AND</b> <b>CONSUMPTION IN PHYSICAL CHEMISTRY</b> J. Bañuelos, L. Gartzia, L. Pérez-Álvarez, R. Sola, L. Ruiz Rubio, A. Veloso, J.L. Vilas Vilela	9731
<b>CONCEPTUAL MODEL FOR OPTIMIZING HEALTHCARE TRAINING IN MEASURING,</b> <b>REGISTERING AND EVALUATING VITAL SIGNS</b> <i>G. Bogdanova, D. Dimitrova</i>	9739
MATHEMATICAL TASKS OUTDOOR: AN EXPERIENCE WITH PRIMARY SCHOOL STUDENTS F. Fernandes, I. Vale	9746
<b>ANALYSIS OF TEACHING IN CRITICAL CONDITIONS</b> J. Kultan, I. Brezina, A. Strešňáková, P. Schmidt	9754
FOREIGN LANGUAGE LEARNING FOR SPECIFIC PURPOSES USING H5P DIGITAL TOOL M.N. Perez Santos, S. Jesus Esteves	9764
WHAT'S UP? OR SHOULD I SAY WHATSAPP? THE USE OF WHATSAPP IN THE TEACHING AND LEARNING PROCESS OF FOREIGN LANGUAGES IN HIGHER EDUCATION M.N. Perez Santos	9770
MEDIA COMPETENCE AND INNOVATION: A SYSTEMATIC REVIEW OF SCIENTIFIC LITERATURE ON WEB OF SCIENCE O. Vite, C. Poggi Parodi	9779

<b>TEACHER COMPETENCE GAP IDENTIFICATION BY USING AN ONLINE TEST</b> I. Dudareva, D. Namsone, A. Butkēviča, L. Čakāne	9787
TEACHING-LEARNING MODALITIES THROUGH THE BLACKBOARD® E-LEARNING SYSTEM	9792
M. González-Durán, T.I. Hernández-Sánchez, A.A. López-Lambraño, I.A. Camacho-Ixta, O. Candolfi- Arballo, J. Cuevas-Rodríguez	
IMPLEMENTATION OF VIRTUAL STATISTICAL MEASURING INSTRUMENTS IN ENGINEERING EDUCATION DURING COVID-19 N. Paunkov, S. Lyubomirov, R. Popov, D. Shehova	9801
<b>TEACHER PREPARATION DURING COVID-19: A SHIFT FROM FACE-TO-FACE TO REMOTE FIELD EXPERIENCES AND STUDENT TEACHING</b> <i>L. Bobley, R. Best</i>	9810
IMPACT OF DISTANCE EDUCATION DURING A PANDEMIC ON STUDENT PERFORMANCE G. Derzayeva	9817
<b>NEW APPROACHES IN INTERNATIONAL EDUCATION</b> J. Kultan, M. Serik, S. Nurgalieva	9822
HONING SOFT SKILLS VIA ZOOM-MEDIATED LEARNING E. Temnova	9833
<b>INNOVATION IN TEACHING ACTIVITIES. THE CASE OF HOSPITALITY</b> <b>MANAGEMENT DEGREE COURSE</b> V. Della Corte, G. Del Gaudio, E. Di Taranto, K. Umachandran, G. Nevola, S. Luongo	9839
IMPACT OF BUDGET SPENDING ON THE QUALITY OF EDUCATION	9843
G. Derzayeva THE PROCESS, PRODUCE AND PRODUCT OF A PASSIONATE LEARNING ENVIRONMENT	9849
V. Della Corte, G. Del Gaudio, K. Umachandran, G. Nevola, S. Luongo, E. Di Taranto	
THE WAYS TO SUPPORT DIGITAL CAPITAL CREATION AT THE LEVEL OF UNIVERSITIES G. Bannykh, S. Kostina	9857
CHALLENGES OF THE EDUCATION SYSTEM IN THE PROCESS OF HUMAN CAPITAL FORMATION IN GEORGIA N. Paresashvili, N. Okruashvili, M. Nikvashvili	9863
THE EMERGENCY TRANSITION OF HIGHER EDUCATION INSTITUTIONS TO NEW EDUCATIONAL TECHNOLOGIES IN THE CONTEXT OF THE COVID-19 PANDEMIC: A CASE FROM RUSSIA G. Bannykh, S. Kostina	9870
COMPUTER GAMES AS A TOOL TO ENHANCE REMOTE TEAM AND COLLABORATION EXPERIENCE K. Cagáň, J. Papula, L. Kohnová	9877
<b>IN CONSTRUCTION OF THE PROJECT BASED LEARNING METHODOLOGY IN THE</b> <b>"MATERIALS. DESIGN AND RESTYLING" SUBJECT</b> D. Garcia-Garcia, N. Montanes, L. Quiles-Carrillo, J. Ivorra-Martínez, R. Sanchis	9883
<b>LEARNING EXCHANGE: A COLLABORATIVE WORK BETWEEN COURSE UNITS</b> <i>F. Silva, J.E. Ribeiro, P.M. Barros</i>	9892
<b>TRAINING OF ADMINISTRATIVE STAFF FOR PROVIDING INFORMATION SECURITY</b> <b>IN A REMOTE WORK ENVIRONMENT</b> <i>P. Hristova, R. Rusev, B. Ivanova</i>	9899
<b>CONTRIBUTIONS TO THE LEARNING IN LINEAR ALGEBRA: AN EXPERIENCE WITH THE MATHE PLATFORM</b> <i>P.M. Barros, F. Silva, E. Cordeiro</i>	9906
DECREASING THE DIFFICULTIES OF GENERAL MOTOR SKILLS AT CHILDREN WITH SPECIAL NEEDS C. Gugu-Gramatopol, D. Naghi	9916
<b>TELEHEALTH AS A PROFESSIONAL EDUCATION TOOL IN THE STATE OF</b> <b>AMAZONAS-BRAZIL</b> J. Sachett, W. Santos, I. Ferreira, I. Gonçalves	9923
BODY SCHEME PROGRESS FOR CHILDREN WITH SPECIAL NEEDS C. Gugu-Gramatopol, D. Naghi	9928

TRAINING INTERNAL MANAGERIAL CONTROL PERSONNEL IN THE CONTEXT OF DIGITALIZATION	9933
M. Murariu (Pleşca), M.V. Bedrule-Grigoruță INNOVATIVE STRATEGIES FOR CO-FINANCING SMART-CITIES PROJECTS IN EMERGING MARKETS M. Bearainum, C. Concest	9941
M. Boscoianu, C. Ceocea <b>THE NEED FOR CROSS-CULTURAL COMPETENCIES IN A MULTICULTURAL</b> <b>ENVIRONMENT</b> N. Paresashvili, N. Okruashvili, K. Chitaladze	9946
<b>TELECARDIOLOGY: SUPPORT AMAZON'S HEALTH CARE NETWORK FOR</b> <b>TELEDIAGNOSIS AND TELEDUCATION</b> <i>W. Santos, J. Sachett, R. Zacarias Filho, D. Nascimento, G. Duarte, G. Silva, M. Oliveira, I. Gonçalves</i>	9953
DISRUPTIVE TECHNOLOGIES IN HIGHER EDUCATION IN THE CONTEXT OF COVID- 19 PANDEMIC	9960
I.M. Purcărea, A.V. Radu, I. Stoica (Răpan), M.I. Gurău THE INFLUENCE OF SCHOOL LEADERSHIP IN IMPROVING TEACHING AND LEARNING IN THE PRIMARY SCHOOLS IN LESOTHO N.C. Teba-Teba, A.H. Makura	9965
A RETROSPECTIVE EVALUATION OF AN ELT COURSEBOOK FOR A GREEK EFL E- LEARNING COURSE IN PUBLIC SCHOOLS DURING COVID TIMES I. Harbali	9972
INTEGRATION OF THE CULTURE CANON IN THE LANGUAGE ACQUISITION THROUGH THE CLIL APPROACH: THE LATVIAN CASE STUDY M. Burima	9979
USAGE OF UAVS IN THE PROTECTION OF CULTURAL HERITAGE IN THE TEACHING OF COMPUTER SCIENCE O. Takáč, L. Végh	9987
<b>THE DIHUB MODEL FOR LEARNING AND INNOVATING</b> L. Aunimo, J. Hytönen, H. Ahola, H. Hokkanen, K. Häkkinen	9993
PERSONALITY TRAITS AND ATTITUDE TOWARDS DIGITAL EDUCATIONAL TECHNOLOGIES IN RUSSIAN UNIVERSITY STUDENTS I. Novikova, P. Bychkova, G. Zamaldinova	9999
PARTICIPANTS ENGAGEMENT ON BUSINESS EVENTS ENHANCEMENT DURING COVID 19 PANDEMIC K. Cagáň, J. Papula, L. Kohnová	10006
ONLINE GAMES TO INTRODUCING COMPUTER PROGRAMMING TO CHILDREN L. Végh, O. Takáč	10007
SECONDARY SCHOOL STUDENT PERFORMANCE PREDICTION USING ENTITY EMBEDDING OF CATEGORICAL VARIABLES R. Jawtahri, V. Stoffova	10016
RELATIONS BETWEEN INTERCULTURAL COMPETENCE AND AGGRESSIVENESS AS PERSONALITY TRAITS AMONG UNIVERSITY STUDENTS I. Novikova, A. Novikov, G. Zamaldinova, A. Nevzorova	10021
STUDY OF GEOMETRIC SHAPES THROUGH TRADITIONAL BASKETRY USING DIGITAL TECHNOLOGIES A. Casado, A. Sanchez, I. Leon	10027
HOW PERSONALIZED LEARNING PLATFORMS COULD IMPROVE SOCIAL- EMOTIONAL SKILLS I. Gerasimova, M. Schevlyagin	10033
VIRTUALIZING THE TEACHING-LEARNING PROCESS IN THE SUBJECT "DESIGN AND DEVELOPMENT CURRICULAR II" J. Alonso-Cañadas, M. Sierra-Fernández, M.M. Muñoz-Rivera	10041
VISUAL REPRESENTATION OF DATA MINING AND ANALYTICS WITH INTERACTIVE DASHBOARD M. Jawtahri, M. Siddiqui, V. Stoffova	10045
VIRTUAL SYSTEM FOR GENERATING AND MEASURING REAL TIME SIGNALS USED IN E-LEARNING N. Paunkov, S. Lyubomirov, V. Rangelova, R. Popov	10051
N. Paunkoo, S. Lyubomiroo, V. Rangeloou, R. Popoo POSSIBILITIES OF USING UNIVERSITY GRANTS TO CREATE A DEVICE FOR RESEARCH IN THE FIELD RFID TECHNOLOGY F. Lenko, R. Jankura	10059

<b>EXPLORATORY STUDY ON TANGIBLE COMPUTER PROGRAMMING EXPERIMENTS</b> <b>IN EARLY CHILDHOOD EDUCATION</b> <i>L. Nogueira, T. Blanco, C. Maia-Lima</i>	10066
UNDERSTANDING THE CHALLENGES AND EXPECTATIONS OF WOMEN IN SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS: THE ACADEMIC AND INDUSTRIAL PERSPECTIVE	10073
A. Parmaxi, A. Economides, D.M. Puente Hevia, M. Perifanou, E. Loucaidou, A. Chatzikyriakou, S. Katic, S.C. Vidmar, M. Manchenko	
ON THE ANALYSIS OF MATHEMATICS CONTENT IN CZECH UPPER SECONDARY SCHOOL EDUCATION FROM THE PERSPECTIVE OF TYPES OF GEOMETRIC TASKS P. Surynkova	10083
POSSIBILITIES OF EDUCATION OF UNIVERSITY STUDENTS IN SELECTED ASPECTS OF CIRCADIAN RHYTHMS R. Lenková, V. Vasilišinová, F. Lenko	10089
THE IMPORTANCE OF SUBJECTIVE ASSESSMENT OF ENVIRONMENTAL FACTORS IN THE CREATION OF STRATEGIC ANALYSIS S. Krčméry	10094
DEVELOPING DIGITAL COMPETENCES FOR CREATIVE INDUSTRIES - DIGICULTURE COURSES	10100
D. Andone, R. Vasiu, V. Mihaescu, D. Stoica, S. Vert, A. Ternauciuc, M. Mocofan	
<b>STS APPROACH TO CHANGE CHILDREN'S BEHAVIOUR IN WHAT CONCERNS THE</b> <b>CONSUMPTION OF PLASTIC</b> <i>P. Milheiro, S. Aboim, C. Maia-Lima, A. Couto</i>	10109
<b>DEVELOPING BELIEFS IN ELEMENTARY TEACHER STUDENTS</b> T. Weber, E. Rathgeb-Schnierer, A. Eichler	10115
MOBILE COMMUNICATION STRATEGIES IN HIGHER EDUCATION J. Gonçalves, J. Brigas, F. Gonçalves	10123
INSTRUCTIONAL DESIGN IN FACE-TO-FACE AND ONLINE EDUCATION: DEFINITIONS, PRINCIPLES, MODELS A. Makri, D. Vlachopoulos	10132
IMPACT OF IDENTITY-ORIENTED LITERATURE EDUCATION ON ADOLESCENTS' ATTENTIONAL FOCUS, MODES OF ENGAGEMENT AND SELF-INSIGHT P. Grandits	10142
IMPACT OF INDUSTRY 4.0 ON BANKING SECTOR - A NEED FOR NEW SKILLS AND KNOWLEDGE FOR ERA OF DIGITAL BANKING A. Gažová, Z. Papulová, K. Kanková	10152
REVEALING THE UNDERLYING ASSUMPTIONS OF EFFECTIVENESS REGARDING DIALOGUE COACHING: THE CASE OF DEMOCRATIC DIALOGUE IN THE FLEMISH EDUCATIONAL LANDSCAPE M.S. Göregen	10161
<b>RELATIONSHIP BETWEEN THE ASSESSMENT OF LIFE CONTENTMENT OF SPORTS</b> <b>PROFESSIONALS AND LATENT DIMENSIONS OF KINESIOLOGICAL COMPETENCIES</b> <i>S. Jenko Miholić, N. Maras, V. Horvat</i>	10169
ACCOUNTING FOR SUSTAINABILITY: RESEARCH, HIGHER EDUCATION, AND THE GREAT OPTIONS PLAN R. Abreu, J. Legčević, L. Segura	10175
<b>OPEN-SOURCE SOFTWARE IN HIGHER EDUCATION: A SHINY PARADIGM</b> <i>A. Giannakoulopoulos, A. Kouretsis, L. Limniati, N. Konstantinou</i>	10183
<b>LEARNING ANALYTICS - CASE STUDY: SEMANTIC AND SENTIMENT ANALYSES OF</b> <b>STUDENTS FEEDBACK IN HIGHER EDUCATION</b> V. Nikolovski, D. Trajanov, I. Chorbev	10191
GENERATION Z: EDUCATION IN THE WORLD OF DIGITIZATION FOR THE FUTURE OF ORGANIZATIONS L. Kohnová, J. Papula, N. Salajová	10199
NEEDS FOR FUTURE EDUCATION AND DEVELOPMENT SYSTEMS IN ORGANIZATIONS L. Kohnová, J. Papula, N. Salajová	10209
ADAPTING TO ONLINE TEACHING IN HIGHER EDUCATION DURING COVID-19 PANDEMIC: A CASE STUDY IN SAUDI ARABIA W. Labib	10218

ASSESSMENT OF PRAGMATICS IN CHILDREN WITH LANGUAGE AND COMMUNICATION DISORDERS THROUGH A NOVEL APP C. Andrés-Roqueta, R. Flores, A. Igualada	10224
WHAT DOES IT TAKE TO KEEP STUDENTS ENGAGED ONLINE? INSIGHTS FROM A SMALL-SCALE SURVEY DURING THE PANDEMIC A. Giannakoulopoulos, L. Limniati, N. Konstantinou	10225
TEACHING RELATED TO REINFORCED CONCRETE STRUCTURES IN ARCHITECTURE DEGREE. ANALYSIS OF THE EXPERIENCE OF USING A PROBLEM-BASED LEARNING METHODOLOGY DURING FIVE ACADEMIC YEARS J.M. Ortega, M. Miró	10233
SUSTAINABLE EDUCATIONAL ESCAPE ROOMS FOR ENTREPRENEURSHIP STUDENTS D. Vlachopoulos	10240
<b>THE VIRTUAL REALITY POTENTIAL IN CLASS</b> E. Peltekova, E. Stefanova	10247
ENGLISH TEACHER TRAINING IN SLOVAKIA DURING COVID19 P. Hitkova	10255
EXPERIENCES IN THE TEACHING AND LEARNING PROCESS OF THE SUBJECT "GEOTECHNICAL STRUCTURES TECHNOLOGY" OF GEOLOGICAL ENGINEERING MASTER'S DEGREE. A SIX ACADEMIC YEARS PERIOD APPROACH J.M. Ortega, M. Miró	10256
LEXICAL DIVERSITY AND REFERENCE LEVELS OF LEXICAL ITEMS IN WRITTEN PERFORMANCES OF THE INCOMING UNIVERSITY STUDENTS Z. Sucháňová	10263
A COMPARATIVE ANALYSIS OF GRAMMATICAL STRUCTURES ACROSS ENGLISH LANGUAGE TEXTBOOKS AT A2 LEVEL M. Vlčková	10267
<b>JEU: FROM BLENDED MOBILITY TO ONLINE MOBILITY</b> J.C. Monteiro, H. Bollaert, J. Ides, P. Milczarski, D. O'Reilly, H. Schulze	10277
A NEXT GENERATION CLASSROOM, AS CREATED BY THE NEXT GENERATION P. Lane, R. Lafferty	10282
<b>REGULATION AND SELF-REGULATION OF CSR. THE INFLUENCE OF EDUCATION</b> D. López Jiménez, E.C. Dittmar	10286
<b>TRAINING THE LAY POPULATION FOR CARDIAC ARREST: EXPERIENCE REPORT</b> S. Rodrigues Rosado, C. Nóvoa Fernandes, M. Moreno de Freitas, P.O. Silicani de Oliveira, F. Milani Magaldi, T. Dalossi Genari	10293
<b>USE OF GAMES AS A TEACHING METHODOLOGY: AGEING PROCESS</b> K. Alves Silva, F. Santos Marques, S. Rodrigues Rosado, C. Nóvoa Fernandes	10297
TECHCLASS DIGITAL ACADEMY AS AN ULTIMATE SOLUTION TO THE SHORTAGE OF SKILLED LABOR IN THE IT SECTOR F. Eftekhari, J. Mentilä	10303
A PERSPECTIVE OF THE MAYANGNA INDIGENOUS POPULATION OF NICARAGUA: SHINING LIGHT ON A MARGINALIZED INDIGENOUS COMMUNITY IN LATIN AMERICA P. Lane, E.A. Gómez Salazar	10312
HOLISTIC AND HISTORICAL CHILD CARE: PERSPECTIVES FROM NURSING EDUCATION J. Cuba Sancho, T. Vivas Durand, T. Espinoza Moreno	10316
ADAPTATION OF ENVIRONMENTAL EDUCATION DURING THE COVID-19 PANDEMIC LOCKDOWN H. Grežo, Z. Pucherová, R. Mišovičová	10324
FEASIBILITY AND EFFECTIVENESS OF AN EDUCATIONAL PROGRAM BASED ON NEUROSCIENCE IN THE PREVENTION OF BULLYING J. Cuba Sancho, T. Vivas Durand, L. Chávez Cruz, R. Zegarra Chapoñan, J. Zeladita Huaman	10329
AN EFFORT TO FIND A BALANCE BETWEEN PHONETIC EXERCISES AND LANGUAGE SKILLS IN TEACHING GERMAN AS A FOREIGN LANGUAGE I. Grežová, H. Grežo	10336
USING ENGLISH AS A MEDIUM OF INSTRUCTION (EMI) AS A STRATEGY TOWARDS A GLOBAL CAMPUS F.S. Grolleau, C.M. Montaudon-Tomas	10342

GLOBALLY COMPETENT FACULTY: A STRATEGY TO DEVELOP GLOBAL CITIZENSHIP	10348
C.M. Montaudon-Tomas, F.S. Grolleau	
INCLUSIVE AND ENGAGING ONLINE INSTRUCTION IN TIME OF CRISES: THE COVID-19 PANDEMIC A. King-Berry, K. Page, C. Cassoma, K. Greene, D. Turner	10358
THE PUBLIC POLICY PROCESS IN UNIVERSITY INTERNATIONALIZATION: A	10359
<b>LITERATURE REVIEW</b> <i>P. Kaewmanee, T. Carvalho</i>	10559
APPS FOR EDUCATION THAT ENHANCE ONLINE LEARNING FOR ALL STUDENTS: ASSISTIVE TECHNOLOGY FOR ALL A. King-Berry, R. Boone	10367
<b>ROMANIAN STUDENTS EXPECTATIONS FROM EDUCATIONAL ONLINE PLATFORMS</b> <b>IN THE AGE OF COVID-19</b> <i>M.D. Pop, S.A. Potra, A.P. Pugna</i>	10372
THE BAOC MODALITY COURSE OF NUMERICAL METHODS IN ENGINEERING UAM AZCAPOTZALCO IN THE PANDEMIC H. Pablo-Leyva, R.B. Silva-López, J.A. Reyes-Ortiz	10382
REDESIGNING A BLENDED LANGUAGE ENHANCEMENT COURSE FOR REMOTE LEARNING IN THE TIME OF THE PANDEMIC M. Wilkinson	10391
TRANSLATING CULTURES: DEVELOPING INTERCULTURAL COMPETENCE IN ENGLISH TEACHER TRAINING Z. Jánošíková	10392
PROSPECTIVE TEACHERS' BELIEFS ABOUT THEIR READINESS FOR TEACHING MATHEMATICS BASED ON UNDERGRADUATE PREPARATION R. Dofkova, J. Kvintová	10396
ROMANIAN UNIVERSITY HYBRID EDUCATIONAL SYSTEM: A GROUNDED THEORY APPROACH OF 1ST YEAR STUDENTS EXPERIENCE S.A. Potra, A.P. Pugna, M.D. Pop, L. Dungan	10402
PROSPECTIVE TEACHERS' BELIEFS ABOUT THEIR READINESS FOR USING ROBOTIC AIDS IN TEACHING MATHEMATICS R. Dofkova, J. Vasko, J. Kvintová	10407
TECHNO-PEDAGOGICAL TRAINING FOR TEACHERS IN THE EMERGING REMOTE TEACHING PROJECT AT THE METROPOLITAN AUTONOMOUS UNIVERSITY LERMA R.B. Silva-López	10414
SUBJECTIVE AND OBJECTIVE EVALUATIONS OF 3D VISUALISATION IMPACT OF AUGMENTED REALITY OBJECTS FOR AUTHENTIC LEARNING A. Sen, L. Selvaratnam, J.W. Tan	10423
VIRTUAL LEARNING IN TIMES OF COVID19 CRISIS – ASSESSING AUGMENTED REALITY RESOURCES FOR STUDENT ENGAGEMENT AND LEARNING UNDER LOCKDOWN A. Sen, Z. Yi Lim, K.K. Tha	10430
CROWDSOURCING AS A TOOL FOR THE DEVELOPMENT OF DIGITAL LEARNING RESOURCES. A QUALITATIVE ANALYSIS FOR THE EARLY IDENTIFICATION AND ASSESSMENT OF CONTEXT-SPECIFIC ANTECEDENTS A. Schneider, R. Nuss, S. Uhlig	10440
<b>USE OF 3D PRINTS FOR TEACHING SPECIALIZED SUBJECTS</b> M. Polorecká, K. Petrlová, K. Hollá	10441
SPECIALIST EDUCATION AND METHODS USED IN THE WORKING RISK ASSESSMENT IN THE SMALL ENTERPRISES AND MICRO COMPANIES IN THE SLOVAK REPUBLIC AND CZECH REPUBLIC M. Polorecká, A. Cidlinová	10447
<b>VIRTUAL REALITY IN AGRICULTURE: AN INNOVATIVE FRAMEWORK FOR LEARNING ENTREPRENEURSHIP</b> F. Grivokostopoulou, I. Perikos, Z. Palkova, I. Kardum, M. Kovas, K. Hatzilygeroudis	10455
INTERVENTION PROGRAMS AS A MEANS OF DEVELOPING LINGUISTIC, SOCIOLINGUISTIC AND INTERCULTURAL COMPETENCE IN ROMANCE	10459
LANGUAGES M. Lalinská, J. Hučková, N. Rusnáková, C. De Miguel Santos	

M. Lalinská, J. Hučková, N. Rusnáková, C. De Miguel Santos

TOWARDS A FRAMEWORK TO ENHANCE THE DIGITAL SKILLS OF HEALTH PROFESSIONALS F. Grivokostopoulou, I. Perikos, K. Kovas, M. Koutsojannis	10470
PHYSICAL EDUCATION TEACHER EDUCATION: BUILDING INCLUSIVE PRACTICES AND PEDAGOGIES W. Barber, W. Walters	10474
ONLINE PHYSICAL EDUCATION: A REVIEW OF THE RESEARCH W. Barber, W. Walters	10480
<b>TEACHING STRATEGY BASED ON INTERACTIVE USE OF COMPUTER SIMULATIONS</b> <b>DURING COVID-19 PANDEMIC</b> <i>T.B. Coman, M.M. Cazacu, I. Radinschi</i>	10485
FROM FACE-TO-FACE TO REMOTE LEARNING: EFFECT ON STUDENTS P. Somani	10491
<b>DEVELOPING VIRTUAL TOOLS TO COMPLEMENT EXPERIMENTS IN THE PHYSICS</b> <b>LABORATORY</b> <i>T.B. Coman, M.M. Cazacu, I. Radinschi</i>	10499
<b>PUBLIC POLICIES ADVANCE TOWARDS GENDER EQUALITY</b> C. Araneda Guirriman, M.E. Aravena Gaete, D. Flores Noya	10505
EDUCATION UNDER THE INFLUENCE COVID-19 AT SELECTED TWO UNIVERSITIES IN THE SLOVAK REPUBLIC	10510
K. Fatrcová-Šramková, T. Juríková, M. Schwarzová, I. Viczayová, L. Baráth	
APPROACH TO THE PSYCHOSOCIAL PROFILE OF POSTGRADUATE STUDENTS INVOLVED IN ENTREPRENEURSHIP PROCESSES IN GUATEMALA E.J. Morales-Fernandez, J. Veloso-Cancino, J.L. Trechera-Herreros, E.M. Zaczkowska	10518
<b>THE ROLE OF HR ANALYTICS FOR DIGITAL HRM TRANSFORMATION</b> <i>P. Novo Melo, C. Machado</i>	10529
HOW TO ROLLOUT ONLINE PROCTORED EXAMS AT EUROPEAN UNIVERSITIES? CONCEPTS AND GUIDELINES FOR THE PRACTICAL IMPLEMENTATION OF A LARGER NUMBER OF ONLINE EXAMS IN HIGHER EDUCATION <i>M. Baume</i>	10530
<b>STUDENTS AND TEACHERS WELL-BEING: CHALLENGES AND POLICY IN TIMES OF</b> <b>CRISIS</b> <i>A.B. da Silva Soeiro de Carvalho, P.A. Castro</i>	10531
EMPOWERMENT OF NETWORKING IN LITHUANIAN COMPREHENSIVE SCHOOLS DURING THE COVID-19 PANDEMIC I. Bilbokaitė-Skiauterienė, R. Bilbokaitė	10536
E-LEARNING DURING COVID-19: UNDERSTANDING THE NEXUS BETWEEN INSTRUCTIONAL INNOVATION, E-PSYCHOLOGICAL CAPITAL AND ONLINE BEHAVIOURAL ENGAGEMENT U. Ahmed	10543
"THIS PROGRAM GAVE US POWER TO BLOOM" – PRESCHOOL TEACHERS' SOCIAL- EMOTIONAL DEVELOPMENT FOLLOWING CONTINUING EDUCATION PROGRAM Y. Kesner Baruch	10544
LIMITATIONS OF THE NATIONAL ASSESSMENT PORTFOLIO FOR PRE-SCHOOL CHILDREN'S LEARNING PROGRESS AND ACHIEVEMENTS R. Bilbokaitė, I. Bilbokaitė-Skiauterienė, R. Adomavičė	10550
<b>STUDYING FUTURE COMPETENCE PROFILE IN AUTOMOTIVE ASSEMBLY: A MIXED- METHOD APPROACH</b> <i>S. Surendra, S. Müller-Abdelrazeq, F. Hees, I. Isenhardt</i>	10558
AN INNOVATIVE NEW MEDIA ENVIRONMENT AS A TOOL FOR EDUCATION OF CONTEMPORARY STYLISTIC HERITAGE I. Gintere, K. Biters, I. Vīksne	10569
COMPARING STUDENT'S PERSPECTIVES OF BLENDING LEARNING IN THE CONTEXT OF A POSTGRADUATE MASTER VS FACE-TO-FACE LEARNING. STRATEGIES FOR ENHANCING THE EXPERIENCE B. Garcia-Ortega, J. Galan-Cubillo	10574
COMBINING TEAMWORK, COACHING AND MENTORING AS AN INNOVATIVE MIX FOR SELF-AWARE AND MOTIVATIONAL LEARNING. IMPLEMENTATION CASE IN TEAMWORK SESSIONS IN THE CONTEXT OF PRACTICES IN A BACHELOR'S DEGREE B. Garcia-Ortega, J. Galan-Cubillo	10582

VALIDATION OF A QUESTIONNAIRE TO ANALYZE THE RELEVANCE OF THE CURRICULUM UNIT OPTION - COMMUNICATION STRATEGIES SOCIAL NETWORKS M. Pinto, P. Ibañez-Cubillas	10589
GAMIFICATION OF ICEBREAKING ACTIVITIES FOR MECHANICAL ENGINEERING STUDENTS EMBARKING ON A PROBLEM BASED LEARNING MODULE K. Delaney, G. Nagle, M. Chen	10595
THE CURRICULUM OF THE PRE-SENIOR EDUCATION PROGRAMME M. Koricina	10601
CRITICIZING DUOLINGO AS A LEARNING APP: PERSPECTIVES OF LEARNING GAME DESIGNER AND LANGUAGE TEACHER M. Ahmad	10610
<b>TEACHING IN COVID TIMES: MICROSOFT TEAMS AND GSUITE, TWO BASIC TOOLS</b> <b>TO SUPPORT LEARNING</b> J.S. Artal-Sevil, M.S. Valero-Gracia	10620
<b>VIRTUAL ESCAPE ROOM FOR GAMIFIED E-LEARNING IN PHYSIOLOGY</b> L. Fuentes-Broto, M.S. Valero-Gracia, M. Castro-López, J.S. Artal-Sevil	10632
ACQUIRED BUSINESS COMPETENCIES, COGNITIVE AND EMOTIONAL ENGAGEMENT, AND STUDENT SATISFACTION IN ONLINE LEARNING: A MEDIATED REGRESSION ANALYSIS M. Tanpoco, R.R. Morales, J. Caminong	10640
MINDFULNESS AND PERCEIVED ORGANIZATIONAL SUPPORT OF TEACHERS IN THE WORK FROM HOME SETTING J. Ranieses, M. Tanpoco	10650
<b>PROJECT MANAGEMENT TOOLS IN THE ORGANIZATION OF LANGUAGE TRAINING</b> <b>OF STUDENTS IN THE TECHNOLOGICAL UNIVERSITY</b> <i>A. Astafeva, L. Gazizulina</i>	10659
FROM FACE-TO-FACE TO ONLINE: ASSESSING THE EFFECTIVENESS OF THE RAPID TRANSITION OF HIGHER EDUCATION DUE TO THE CORONAVIRUS OUTBREAK – THE STUDENT PERSPECTIVE N. Souleles, A. Laghos, S. Savva	10666
DIGITAL TRANSFORMATION IN HIGHER EDUCATION AND PERSONALIZED LEARNING: CULTURAL MANAGEMENT AND DIGITAL CULTURE IN THE FOURTH INDUSTRIAL REVOLUTION G. Gantzias	10673
ONLINE TEACHING OF PHYSICAL AND SPORTS EDUCATION DURING THE COVID- 19 PANDEMIC IN RELATION TO PAIN IN THE MUSCULOSKELETAL SYSTEM OF FEMALE STUDENTS (PILOT STUDY) E. Bendíková, I. Palaščáková Špringrová	10674
CURRENT HEALTH STATUS AND PHYSICAL ACTIVITY OF SCHOOLCHILDREN IN SLOVAKIA E. Bendíková, N. Novotná, P. Šagát, I. Palaščáková Špringrová	10682
INTERCULTURAL COMPETENCES UNDER COVID 19 CRISIS: COLLABORATIVE LEARNING IN DIGITAL SPACE C. Alexandrache	10690
ONLINE TEACHING AND LEARNING DURING THE FIRST WAVE OF THE COVID-19 PANDEMIC: THE CASE OF AUTOMOTIVE ENGINEERING L. Serrano, M.C. Gaspar, M. Morgado	10699
APPLICATION OF THE PROJECT METHOD FOR FORMING INTERCULTURAL PROFESSIONAL COMPETENCE O. Frolova, V. Lopatinskaya	10707
HOW TO MANAGE REMOTE LEARNING AND TEACHING IN HIGHER EDUCATION DURING THE LOCKDOWNS: CASE OF TURKEY G. Sart	10715
THE IMPACTS OF CAREER CENTERS OF THE UNIVERSITIES ON THE SKILL UP OF THE NEXT GENERATION: HOW TO MAKE READY FOR THE FUTURE OF WORK <i>G. Sart</i>	10716
SELF-EVALUATION OF COMMUNICATION SKILLS AS A LEARNING STRATEGY IN NURSING DEGREE P. Bas-Sarmiento, P. Ureña-García, M. Poza Méndez, M. Díaz-Rodríguez, M. Ruiz-Careira, O. Paloma-	10717
Castro, A. Marín-Paz, I. Carnicer-Fuentes, M. Fernández-Gutiérrez	

EXPLORING HOW SOME SCHOOLS OFFER MATHEMATICS IN LIGHT OF THE SHORTAGE OF TEACHERS TO TEACH THE SUBJECT Z. Sindaphi, S.M. Chiphambo, N. Mtsi	10725
TASK-BASED APPROACH IN IMPROVING THE COMMUNICATIVE SKILL OF ENGLISH FIRST ADDITIONAL LANGUAGE FIRST-YEAR STUDENT TEACHERS T. Mpiti, B. Makena, N.E. Maphla	10732
APPLYING PLACE-BASED APPROACH IN TEACHING ACADEMIC WRITING IN A TERTIARY ENGLISH FIRST ADDITIONAL LANGUAGE CONTEXT IN THE EASTERN CAPE T. Mpiti, B. Makena, N.E. Mpahla	10739
STUDENTS REFLECTION ON WORK-BASED EXPERIENCE: CONNECTING THEORY AND PRACTICE AND ENABLING SOCIAL LEARNING AT CENTRAL UNIVERSITY OF TECHNOLOGY P. Molomo	10748
ONLINE CLASSROOM ENVIRONMENTS AND STUDENTS' LEARNING ENTHUSIASM IN CHINA COLLEGE ENGLISH UNDER THE INFLUENCE OF CORONA J.B. Yang, M. Valcke	10757
EXPLORATION OF THE APPLICATION OF PREDICT-OBSERVE-EXPLAIN AS AN APPROACH IN PROMOTING THE TEACHING OF NATURAL SCIENCE IN GRADE 9 CLASS	10763
N. Mtsi, S.M. Chiphambo, M.W. Mashologu	
QUALITY ASSURANCE IN UNIVERSITY-INDUSTRY COLLABORATIONS: FINANCIAL AND NON FINANCIAL PERFORMANCE INDICATORS T. Carraquico	10767
QUIZBOT: IMPLEMENTATION OF A CHATBOT-BASED CONVERSATIONAL INTERFACE FOR ENGAGING LEARNING CONTENTS A. Ezenwoke, N. Williams	10768
WOMEN ON BOARD AND CORPORATE SOCIAL RESPONSIBILITY (CSR) SPENDING ON EDUCATION AND INFORMATION COMMUNICATION TECHNOLOGIES (ICT) O. Ezenwoke, O. Esan, W. Tion, T. Adeyanju	10776
WHY IS EDUCATION IN THE AREA OF PERSONAL PROTECTIVE EQUIPMENT IMPORTANT FOR PRE-SERVICE CHEMISTRY TEACHERS? M. Feszterova	10782
ASSESSMENT CHALLENGES EXPERIENCED BY GRADE 10 PHYSICAL SCIENCE EDUCATORS: A CASE STUDY OF FIVE SELECTED SCHOOLS N. Nongalo, B. Makena, N.E. Mpahla, T. Mpiti	10791
<b>EFFICACY OF THE USE OF PRACTICAL WORK IN TEACHING PHYSICAL SCIENCE</b> N. Nongalo, B. Makena, N.E. Mpahla, T. Mpiti	10792
THE INTERNET IN AN EDUCATIONAL CONTEXT: USE BY RURAL STUDENTS IN MOZAMBIQUE P. Cuamba, A. Moreira, A.C. Amaro	10793
<b>TEACHER PROFESSIONAL DEVELOPMENT UNDER COVID-19 PANDEMIC:</b> <b>STAKEHOLDERS' PERSPECTIVES</b> <i>S.K. Luggya, M. Tanga</i>	10798
EXPERIENCES OF RURAL PRIMARY TEACHERS IN THE IMPLEMENTATION OF CONTINUING PROFESSIONAL TEACHER DEVELOPMENT IN THE AMATHOLE EAST EDUCATION DISTRICT N.E. Mpahla, B. Makena, T. Mpiti	10807
RURAL PRIMARY TEACHERS' CONSTRUCTIONS OF QUALITY EDUCATION: A REVIEW OF CONTINUING PROFESSIONAL TEACHER DEVELOPMENT PROGRAMMES IN ONE EDUCATION DISTRICT OF THE EASTERN CAPE PROVINCE N.E. Mpahla, B. Makena, T. Mpiti	10813
ADOPTION OF LEARNING MANAGEMENT SYSTEMS AT SOUTH AFRICAN LEARNING INSTITUTIONS V. Burtsev	10818
DIGITAL TEACHING COMPETENCE AND ONLINE TEACHING IN TIMES OF CONFINEMENT M.M. Garau López	10825