Table of Contents

A MIXED METHODS STUDY OF LEARNING CHALLENGES: PERCEPTIONS OF FOUNDATION STUDENTS AT AN INTERNATIONAL BRANCH CAMPUS IN QATAR R. Bendriss	1
ATTITUDES OF SOCIAL MEDIA USERS TOWARDS ONLINE PRIVACY IN TIMES OF A PANDEMIC: PRIVACY CONFIGURATION AND PROFILE DISCLOSURE ON FACEBOOK L. Andrade, L. Faria, M. Andersen	11
SOCIAL MEDIA PRESENCE IN EMPLOYER BRANDING: CONSIDERATIONS FOR HIGHER EDUCATION INSTITUTIONS L. Andrade, J. Pimenta, L. Faria	21
MIGRATION AND PERCEPTION OF RELIGIOUS PLURALISM: A CASE OF TURKISH COMMUNITY IN AMERICA B. Gürer	31
UNIVERSITY STUDENTS' MOBILITY AND ITS ASPECTS E. Nacházelová	38
THE IMPACT OF THE MIND, EMOTIONAL, AND SPIRITUAL (MES) PROGRAM ON QUALITY OF LIFE AMONG NATIONAL HIGH-SCHOOL TEACHERS IN EASTERN THAILAND	45
T. Julvanichpong, K. Piboon, T. Yingratanasuk, W. Julvanichpong, C. Singhnoy, P. Inchai	
SUCCESSFUL TEACHER PREPARATION PROGRAM CHARACTERISTICS R. Spangler	50
PLAYING CATCH UP: ALIGNING CREDIT RECOGNITION AND TRANSFER WITH MICRO-CREDENTIALS R. McGreal, K. Perris	51
DIGITAL TRANSFORMATION IN LANGUAGE EDUCATION DURING THE COVID-19 H. Obari, S. Lambacher, H. Kikuchi, H. Kojima	52
PRE-SERVICE MATH & SCIENCE TEACHERS' VIEWS ON UTILIZING MOBILE TECHNOLOGY IN EARTH SCIENCE COURSE: A PHENOMENOGRAPHIC STUDY F. Ornek	53
JOURNEY THROUGH LIMINALITY: FROM TEACHER, TO STUDENT, TO TEACHER I. Ntonia, M. Pazio	54
SIX SIGMA RE-CERTIFICATION D. Gonzalez	55
'HOW SHOULD SOCIAL WORK EDUCATION IN ENGLAND RESPOND TO THE 2020 BLACK LIVES MATTER CAMPAIGNS?' KEY THEMES FROM THE LITERATURE A. Higgs	56
IMPROVING ONLINE LANGUAGE LEARNING INTERACTIVITY WITH MULTIUSER VIRTUAL REALITY ENVIRONMENTS: PREPARING FOR THE METAVERSE P. Mourtzis, S. Mystakidis	57
TECHNOLOGY AND THE INSTRUCTOR: WHERE TO NOW? L. Whisenant	66
INFORMATION SECURITY AND DIGITAL RIGHTS MANAGEMENT: A BRIEF LITERATURE REVIEW L. Whisenant	76
TELECENTRES AS PROMOTERS OF DIGITAL CITIZENSHIP AMONGST POOR POPULATIONS IN BELO HORIZONTE, BRAZIL S. Rodrigues Haddad, A. Oliveira, A.F. Beaufils	81
PREPARING TEACHERS TO SUPPORT EMERGENT BILINGUALS IN THE US & GLOBALLY: AN INSTITUTIONAL OVERVIEW D. Romero, M. Milian	91
TRANSITIONING EARLY FIELD EXPERIENCES FOR PRESERVICE TEACHERS INTO ONLINE OPPORTUNITIES IN TIMES OF CRISIS D. Romero, A. Romero de la Torre	92

CONCERNS OF PRE-ADOLESCENT CHILDREN IN PRIMARY SCHOOLS IN CHINA: FOCUSING ON CONSULTING PARTNERS AND FACTORS INHIBITING CONSULTATION M. He, F. Inuzuka, I. Chung	98
ENCOURAGING COURSE DESIGNER ENGAGEMENT WITH DATA ANALYSIS METHODS IN VIRTUAL LEARNING ENVIRONMENTS S. Smith, D. Cobham, K. Jacques	110
COMPLEMENTARITY BETWEEN MANAGERS' VOCATIONAL TRAINING, MANAGEMENT CONSULTING AND COMPANY'S INNOVATION ACTIVITY M. Baltov, E. Nikolova, M. Neycheva	118
MENTORING PROGRAM FOR THE INTEGRATION OF INTERNATIONAL STUDENTS INTO HIGHER EDUCATION P. Alves, C. Morais, L. Miranda	127
GREEN TRANSITION – CHANGING THINKING PATTERNS AND ACTIONS IN PRACTICE M. Ekström, K. Hytönen	137
INTERNATIONALIZED ENGLISH MEDIUM INSTRUCTION PROGRAMMES IN HIGHER EDUCATION INSTITUTES N. Wang	143
BUILDING STUDENT-CENTERED SOFTWARE BY ACTUALLY TALKING TO STUDENTS <i>C. McFadden</i>	155
RESULTS OF THE INCORPORATION OF THE STRUCTURAL CODE IN THE TEACHING OF STRUCTURAL SUBJECTS FOR THE DEGREES IN MECHANICAL ENGINEERING, AGRICULTURAL ENGINEERING AND MASTER'S DEGREE IN INDUSTRIAL ENGINEERING	161
J. Ferreiro-Cabello, E. Fraile-Garcia, J. Los-Santos Ortega, C. Gonzalez-Gonzalez DICHTAL DESCUENCES TO ENHANCE EMPLOYABILITY FOR STUDENTS OF	166
DIGITAL RESOURCES TO ENHANCE EMPLOYABILITY FOR STUDENTS OF INDUSTRIAL CONSTRUCTION IN THE INDUSTRIAL ENGINEERING MASTER'S DEGREE J. Ferreiro-Cabello, E. Fraile-Garcia, J. Los-Santos Ortega, C. Gonzalez-Gonzalez	166
DEVELOPING PROFESSIONAL IDENTITY IN FIRST YEAR OF UNIVERSITY	171
S. Dempsey	1,1
PERFORMANCE MEASUREMENT SYSTEM DECOUPLING R. Vancelee, R. Kelly	172
TUTORSHIPS TO PROMOTE UNIVERSITY EDUCATIONAL INCLUSION B.A. Naranjo Sánchez, F. Potes Duque	173
THE DEVELOPMENT-FORMATIVE FUNCTION OF EDUCATIONAL EVALUATION I. Szőköl, O. Kováč	183
INTERIOR DESIGN EDUCATION IN SEARCH OF MEANING D. Hasirci	189
A BILINGUAL PROGRAM AT PRE-UNIVERSITY LEVEL (17-19 YEAR OLD): THE CASE OF COLLEGIAL INTERNATIONAL SAINTE-ANNE H. Rompre	194
DESIGNING FOR CREATIVE RESEARCH IN GRADUATE EDUCATION <i>T. Hurwich, D. Nicholas, F. Fleming, P. Gondek, J. Katz-Buonincontro, D. King, E. Perignat</i>	195
ETHICS IN EDUCATION AND THE USE OF TECHNOLOGY M. Ben-Jacob, A. Glazerman, D. Wang	202
THE PROFESSIONAL LEARNING COMMUNITIES IMPERATIVE: HOW SCHOOLS NAVIGATE THE DYNAMICS OF SYSTEMIC AND SCHOOL-BASED DEMANDS IN PLC IMPLEMENTATION S. Rule, T. Wang	203
CELL BIOLOGY EDUCATION WITH ADVANCED 3D TECHNOLOGIES FOR K-12 STUDENTS S. Tanabashi	204
THE EVOLUTION OF HIGHER EDUCATION - INSTITUTION-TO-INSTITUTION MUTUAL-EXCHANGE E. Arnold	208
A SUDDEN SHIFT FROM FACE-TO-FACE TO DIGITAL: WHAT CHALLENGES DID TUTORS FACE WHILE TUTORING DURING COVID-19? L.M. Langesee, L. Franke, J. Heller	209

REMOTE TEACHING IN THE EARLY YEARS: AN ETHNOGRAPHIC STUDY OF TEACHERS OF PRESCHOOL CHILDREN DURING THE PANDEMIC E. Tolentino	217
IMPACT OF THE COVID-19 CRISIS ON EDUCATION IN NIGERIA: LESSONS LEARNED L. Audu, A. Lawani	222
COMPLETION RATE IN INFORMATICS STUDIES – CZECH REPUBLIC EXPERIENCE L. Nedomova, P. Doucek, M. Maryska	228
GENDER ASPECT IN INFORMATICS STUDIES L. Nedomova, P. Doucek, M. Maryska	233
GUIDELINES FOR TEACHING FOR INFORMATICS TEACHER NOVICES M. Mladenović, M. Ozretić	239
A MULTIMODAL TWIST: USING WEBSITES AND VIDEO IN A UNIVERSITY ACADEMIC WRITING COURSE M. Andrew	248
IF YOU SHRINK IT, WILL THEY STILL SUCCEED? COMPARING THE EFFECTIVENESS OF PEDAGOGICAL MODELS FOR ACCELERATED LEARNING IN AN ONLINE MASTER'S DEGREE PROGRAM L. Mandel	249
INTEREST IN CYBERSECURITY EDUCATION AMONG APPLIED SCIENCES STUDENT POPULATION N. Kasunic, S. Bracun	258
NATURE-BASED LEARNING: DESIGNING OUTDOOR PLAY ENVIRONMENTS B. Isci, D. Hasirci	266
IS COMPANY'S COMMITMENT TO LEARNING A FACTOR FOR MARKETING INNOVATIONS? E. Nikolova, M. Neycheva, V. Ruseva	274
UPSKILLING THE COMPETENCEIES OF TEACHERS IN THE PRIVATE SECTOR THROUGH STEAM AND DDMT MODEL K F T. Lam, T.H. Wang, N. Ku, J H. Chen	282
EXPLORING THE EMOTIONAL RESPONSES INDUCED BY A REAL PERSON CHAT AND AN AI CHATBOT ASSISTANT G. Qu, H. Zhou, M. Wang, B. Yang, T. Goh	288
GAMIFICATION IN PRIMARY ENGLISH TEACHING AS A SPRINGBOARD TO CONTROL PUPILS' BEHAVIOR AND MOTIVATION P. Tereso, M. Cruz	294
LEARNING ABOUT MANAGEMENT FROM PRACTITIONERS - DISCOURSES, DILEMMAS AND CONTRADICTIONS STEMMING FROM ANALYSIS OF SEMI-STRUCTURED INTERVIEWS CONDUCTED BY STUDENTS K. Pavlica, I. Matoušková	305
THE DESIGN AND DEVELOPMENT OF AN INSTITUTIONAL DIGITAL TOOLKIT TO ENHANCE RESEARCH TEACHING INTEGRATION S. Floyd, R. Bond, I. McChesney, M. Ballentine	311
TRANSITION FROM FACE-TO-FACE TO HYBRID HACKATHONS DURING COVID-19 PANDEMIC R. Khan, N. Sethi	321
THE INCLUSION OF ELF TRANSCULTURAL COMMUNICATION AND COMMUNICATION STRATEGIES IN ENGLISH LANGUAGE TEACHER EDUCATION M. Antonello	328
PROBLEM-BASED TEACHING APPLIED TO PRACTICAL LABORATORY CLASSES: INFLUENCE OF THE STUDENT'S ACADEMIC PROFILE O. Díaz, E. Segredo-Morales, E. González	333
TEACHING EXPERIENCE IMPLEMENTING PRACTICAL CASES ON WATER TREATMENT IN UNIVERSITY COURSES	339
O. Díaz, E. Segredo-Morales, E. González CENTRALLY MANAGED VIRTUAL SYSTEM FOR SECURITY EDUCATION M. Gazdík, P. Kaňuch, P. Helebrandt	343
EXPLORING THE USE OF A CHATBOT TO MEASURE THE EMOTIONAL INTELLIGENCE OF TEACHERS AND STUDENTS IN HIGHER EDUCATION 1. Theng. V. Ding. T. Gol. C. Theng. D. Ving.	348

COMMUNICATION IN ENGLISH AS A LINGUA FRANCA: CHALLENGES FOR TEACHING ENGLISH AS A FOREIGN LANGUAGE P. Vettorel, M. Antonello	353
COVID-19 CHALLENGES ON STUDENTS' ONLINE LEARNING: SOUTH AFRICAN HIGHER EDUCATIONAL INSTITUTIONS PERSPECTIVES R. Minty, R. Brink, A. Alao	361
FEEDBACK PRACTICES: HOW CAN COACHING ADDRESS THE NEED FOR DEEP COMMUNICATION TO SUPPORT STUDENT LEARNING AND WELL-BEING? I. Langseth	371
PHENOMENA TRIGGERING HEURISTIC STRATEGIES IN SOLVING ATYPICAL WORD PROBLEMS K. Mottlová, J. Slezáková	380
PERSONAL, PROFESSIONAL, AND COMMUNITY TRANSFORMATIONS TROUGH INTERNATIONAL TEACHER EXCHANGE PROGRAMS M. Milian	386
OPEN EDUCATIONAL RESOURCES AND PRACTICES PROMOTING COLLABORATIVE CONSTRUCTION AND SHARING OF KNOWLEDGE AT LAUREA UNIVERSITY OF APPLIED SCIENCES A. Helariutta, M. Fred	387
OUROUTE: CREATING A NEW GENERATION OF CULTURAL AMBASSADORS THROUGH EDUCATION AND TRAINING C. Castro Dias, D. Pina, P. Costa	388
SCHOOL AND SOCIAL INCLUSION OF GIPSY ETHNIC YOUTH: THE INTERVENTION OF SPECIALIZED TECHNICIANS IN THE INTEGRATED PROGRAM OF EDUCATION AND TRAINING S. Almeida	397
DIGITAL PEDAGOGIES IN TEACHER EDUCATION POST COVID-19 Y. Weinberger, M. Shonfeld	408
FINANCIAL LITERACY IN INVESTING: INTERACTIVE METHODS FOR BACHELOR'S PROGRAMS S. Bekareva, A. Getmanova, A. Ivanova	415
INVESTIGATING THE RELATIONSHIP BETWEEN SPATIAL SKILLS AND ENGINEERING DESIGN G. Raju, S. Sorby, C. Reid	421
BARRIERS TO THE UTILIZATION OF EDUCATIONAL SOFTWARE R. Garrote Jurado, T. Pettersson, M. Zwierewicz	427
POST-PANDEMIC ARCHITECTURAL DESIGN PEDAGOGY J. Kroft, L. De Bartolo, S. Agma, A. Weiss, V. Hui, L.D. Diaz	434
INVESTIGATING THE BENEFITS OF TRANSITIONING FROM FIXED-POINT TO NAVIGABLE VR	440
L. De Bartolo, A. Weiss, A. Huang, V. Hui	
PLANNING AND TEACHING DEMO LESSONS TO DEVELOP ONE OF THE COMPETENCIES OF THE EXIT PROFILE IN THE ENGLISH LANGUAGE TEACHING (ELT) TRAINING PROGRAM AT UNAE, ECUADOR U. Recino, D. Villagomez, J.G. Fajardo	450
WHAT IS BEHIND ARCHITECTURAL EDUCATION? SOFT SKILLS COMPETENCES IN 6 EUROPEAN SCHOOLS OF ARCHITECTURE C. Sentieri Omarrementería	459
USING UNIVERSAL DESIGN GAME AS AN EDUCATIONAL TOOL – CASE RUFFPROTO J. Lahti	468
PROBLEMS BASED LEARNING TO ESTIMATE FUTURE WATER AVAILABILITY DUE TO CLIMATE CHANGE G. Ibarra-Berastegi	476
FAREWELL TO THE PANDEMIC AND FACING THE WAR: CONTEMPORARY CHALLENGES FOR HIGHER EDUCATION IN ROMANIA G.A. Necula	477
EDUCATION AS A GREEN SOLUTION FOR REDUCING THE ECOLOGICAL FOOTPRINT H. Friman, I. Banner, Y. Sithon, Y. Einay, N. Shaked	478

GAMIFICATION AND CONTINUOUS LEARNING – ON A QUEST FOR MORE ENGAGING EDUCATION P. Tapala	484
MOTIVATION STRATEGIES TO KEEP TRAINEES ENGAGED E. Ciani, A. Laus	491
THE E-CLASSROOM EXPERIENCE OF INTERDISCIPLINARY CONTENT: SPANISH LANGUAGE SUPPORT M.C. Santana-Rogers	500
IN-SERVICE EDUCATION OF TEACHING ASSISTANTS FOR PUPILS WITH INTELLECTUAL DISABILITIES SUPPORTED BY AUTO-ETHNOGRAPHIC RESEARCH K. Becirovic, Z. Bagaric, D. Cerepinko	505
DIGITAL EDUCATIONAL CONTENT: INCLUSIVE PEDAGOGY AS A PUBLIC INNOVATION SCHEME TO STRENGTHEN CITIZEN LEARNING PROCESSES J. Garcia, L. Pacheco, L. Alarcón, N. Parra, M. Silva, J. Bula	512
THE IMPACT OF FAMU SMART ACADEMIES 21ST CENTURY COMMUNITY LEARNING CENTER ON STUDENT PERFORMANCE: AN INNOVATIVE EDUCATION MODEL FOR ADDRESSING ACADEMIC DISPARITY R. Ellis, Jr., T. McGriff, V. Wilson	520
THE INCLUSIVE CURRICULUM WORKGROUP: AFFIRMING ANTI-RACISM AND DIVERSITY IN THE WRITING PROGRAM C. Wastal	521
IMPLEMENTATION OF INNOVATIVE METHODS IN THE TEACHING OF LITERARY EDUCATION FROM THE PERSPECTIVE OF TEACHERS AND UNIVERSITY STUDENTS M. Mašát, K. Šmakalová, A. Štěpánková, L. Nosková, E. Marková, J. Hřivnová, J. Sladová	522
DESIGN THINKING SPRINTS IN HIGHER EDUCATION - THREE CASES AND APPROACHES L. Wallenius	527
DO WE STILL NEED FULLY EQUIPPED LAB COMPUTERS AFTER THE PANDEMIC? C. Pang, C. Anton	537
WOMEN AND STEM CAREERS: A CURRENT DIAGNOSIS OF THE SITUATION IN ECUADOR BASED ON LABOR MARKET INDICATORS A. Guerrero, M.A. Ruano, C. Avilés, J. Mazzini	547
ONLINE MUSEUMS: A PEDAGOGIC TOOL TO FACILITATE OBJECT-ANALYSIS AND AN ENRICHED DECOLONISED LEARNING EXPERIENCE FOR FASHION DESIGN STUDENTS IN HIGHER EDUCATION DURING THE COVID-19 PANDEMIC C. O'Shea	553
THE CHANGING CONDITIONS OF THE UNIVERSITIES—FROM THE FACE-TO-FACE EDUCATIONAL EXPERIENCE TO VIRTUAL LEARNING ECOSYSTEMS—HOW THIS AFFECTS THE DEVELOPMENT OF DEEP LEARNING AND CRITICAL REFLEXIVE THINKING G. Sart	561
THE ADOLESCENT FOREIGN LANGUAGE CLASSROOM ANXIETY SCALE (AFLCAS) – PRELIMINARY RESULTS OF ITS APPLICATION AMONGST FRENCH-SPEAKING STUDENTS OF EFL IN SWISS SECONDARY SCHOOLS AND IMPLICATIONS FOR PRESERVICE TEACHER TRAINING D. Bosmans, E. Jenny	562
HOW TO IMPROVE IT-BASED ENTREPRENEURSHIP EDUCATION COURSES AT THE UNIVERSITIES AND PREPARE THE STUDENTS FOR THE COMING ECONOMIC CRISES? G. Sart	571
AN APPROACH TO FORMATION OF COMPETENCIES OF TEACHERS IN COMPUTER SCIENCE AND PHYSICS FOR IMPLEMENTATION OF ONLINE TRAINING E. Goranova	572
HIGHER EDUCATION TEACHING TRANSFORMATION WITH EDUCATIONAL NEUROSCIENCE PRACTICES M. Fragkaki, S. Mystakidis, K. Dimitropoulos	579
EXPERIENCES IN CREATING ONLINE LANGUAGE OFFERINGS IN INTERNATIONAL COOPERATION M. Ohinen-Salvén, T. Hämäläinen	585

CHANGING THE CURRICULUM TO ENHANCE STUDENT LEARNING J. Greeff, E. Taylor	590
LEADING A DEPARTMENT AT A HIGHER EDUCATION INSTITUTION DURING COVID: THE IMPORTANCE OF GROUP REFLECTION E. Taylor, J. Greeff	601
TOWARDS A GENUINE STUDENT CENTERED APPROACH TO LEARNING R. Andersen, C. Simonsen	602
NETWORK TESTING ENVIRONMENT BASED ON VIRTUALIZATION TECHNOLOGY - LAB SOLUTION V. Šac, L. Havaš, D. Srpak, D. Godec	610
HERE WE GO AGAIN: DIDACTIC SUITABILITY ANALYSIS OF A STATISTICAL-GRAPHS TASK H. Bogas, E. Morais, M.M. Nascimento	619
ALTERNATIVE ASSESSMENT IN THE EYES OF UNIVERSITY TEACHERS: EXPLORING THE RELATIONSHIPS BETWEEN TEACHERS' ATTITUDES, TEACHING ENVIRONMENT AND BEHAVIOUR S.C. Kong, C.N. Yuen	628
RESEARCH AND ANALYSIS OF WORKING INDICATORS OF ONLINE LEARNING AS A DIFFERENT EDUCATIONAL ENVIRONMENT V. Doneva, S. Tsankov	636
VIRTUALIZATION AS A TOOL TO ENCOURAGE ACTIVE LEARNING IN PRACTICAL LABORATORY CLASSES G. Turnes, M. Bauzà, N. Crespí, C. Palomino	644
WHAT IS THE PURPOSE OF HIGHER EDUCATION IN ELECTRICAL ENGINEERING? HARD SKILLS OR SOFT SKILLS? H. Friman, H. Ragones, M. Balberg	649
EXPLORING THE PEDAGOGIC PRACTICES OF TEACHING STAFF IN THE IRISH TECHNOLOGICAL HIGHER EDUCATION SECTOR USING TEACHING AND LEARNING REGIME THEORY N. Harding	653
LANGUAGE, CULTURE AND FEEDBACK – AN EXPLORATION OF EUROPEAN STUDENTS' EXPERIENCES AND UNDERSTANDING OF FEEDBACK M. Pazio	665
NOVICE TEACHERS – RETROSPECTIVE REFLECTIONS AT FIRST YEARS OF TEACHING A. Moshe, P. Shavit	666
A MULTIDIMENSIONAL ASSESSMENT OF SELF-DETERMINATION IN STUDENTS WITH INTELLECTUAL DISABILITIES P. Shavit	667
CREATION OF LEARNING SCENARIOS IN IMMERSIVE WORLDS WITH MINECRAFT EDUCATION EDITION S.A. Casanova Valencia, M.A. Valenzo-Jiménez	668
MULTIDISCIPLINARY COLLABORATIVE APPROACH TO SYSTEMS CHANGE FOR SCHOOL MENTAL HEALTH J. Freeny, A. Fulgiam Thurston, S. Haddad	673
DEVELOPMENT OF EMPLOYABILITY IN HIGHER EDUCATION: ADAPTATION THE EAS METHOD AND ITS IMPLEMENTATION P. González-Navarro, L.I. Llinares-Insa, A.I. Córdoba-Iñesta, N. García-Serra, R. Zurriaga-Llorens, A.M. Casino-García	674
SOCIAL AND LABOUR INCLUSION. THE INSERTION ENTERPRISE AS DRIVERS OF DEVELOPMENT OF EMPLOYABILITY L.I. Llinares-Insa, P. González-Navarro, S. Colomer-Cornejo	680
TRANSFORM-EDU: INCREASING GRADUATE EMPLOYABILITY THROUGH EMOTIONAL AND SOCIAL SKILLS DEVELOPMENT A. Carthy, M. O'Regan, W. Chalmers, O. Philip	685
EDUCRO SUMMER CAMP FOR CULTURE AND TOURISM STUDENTS: BEST PRACTICES AND LESSONS LEARNT O. Bogdanova	686

A PROPOSAL FOR EVALUATING EMERGENCY REMOTE EDUCATION BY CREATING A DIGITAL PORTFOLIO	691
N. Assuncao Minuzi, A. Helena Sonego, A. Goulart Rodrigues, A. Wisnieski de Oliveira, P. Behar, L. Rocha Machado	
CROSS-LINGUISTIC INTERFERENCE IN MULTILINGUAL ACQUISITION: CHALLENGES, EXPERIENCE AND STRATEGIES FOR LEARNERS O. Maximova, T. Soloveva	698
GROUP INFOGRAPHICS, PREPARATION, PRESENTATION AND DEBATE. COLLABORATIVE WORK IN THE UNIVERSITY CLASSROOM M.A. Carabal-Montagud, M.B. De Miguel-Molina, M. De Miguel-Molina, D. Catalá-Pérez	707
FOCUS GROUP AS A QUALITATIVE EVALUATION TOOL OF A UNIVERSITY TEACHING PROJECT BASED ON INFOGRAPHICS, IN THE HERITAGE CONSERVATION AND RESTORATION AREA	715
M.A. Carabal-Montagud, M. De Miguel-Molina, V. Santamarina-Campos, M.B. De Miguel-Molina	
NEW CHALLENGES FOR HIGHER EDUCATION: THE CASE OF DATING VIOLENCE P. Nelas, C. Chaves, M. Ferreira, E. Coutinho, S. Campos	723
ENTREPRENEURIAL SELF-LEADERSHIP AND MINDFULNESS: CURRICULA OUTLINE AND EDUCATOR GUIDELINES O. Bogdanova	728
EXAMINING THE AFFORDANCES OF VIDEO ANNOTATION SOFTWARE (VAS) TO ENHANCE ASSESSMENT PROCESSES D. Shore, A. Ahmad, D. Amry, B. Cleaver, G. Bailey, N. Hu	734
PLAYING AT LEARNING DESIGN K. Maridatter, J. Weines	742
INVOLVING THE LEARNERS IN HYBRID UNIVERSITIES: USE OF STUDENT'S GENERATED VIDEOS A. Mendieta-Aragón, J. Navio-Marco	747
	5.1 0
APPLICATION OF DIGITAL BOARDS AS AN INNOVATION FOR TEACHING IN BIOCHEMISTRY AND MOLECULAR BIOLOGY M.J. Álvarez, M. Cuadros, C. Torres, V. Sánchez, L.J. Martínez, M.I. Rodríguez, V. Arenas-Rodríguez, S. Cuenca-López, P. Porras-Quesada, P. Sánchez	748
INVESTIGATION OF TEACHERS' ATTITUDES TOWARDS THE USE OF SPECIAL PROGRAMS, METHODS AND FORMS OF WORK WITH GIFTED STUDENTS IN THE REPUBLIC OF CROATIA P. Nikolaus, M. Dželalija, N. Marangunić	753
EDUCATION OF SECURITY MANAGERS OF MEDICAL FACILITIES IN THE SLOVAK REPUBLIC T. Loveček, L. Hadáček	762
USE OF VIRTUAL TOOLS IN THE DISSEMINATION OF DNA AND ITS APPLICATIONS M.J. Álvarez, L.J. Martínez, M. Cuadros, C. Torres, V. Sánchez, M.I. Rodríguez, V. Arenas-Rodríguez, S. Cuenca-López, P. Porras-Quesada, P. Sánchez	770
PODCAST PRODUCTION AS A STUDENT-ACTIVE LEARNING ACTIVITY IN TEACHER EDUCATION O. Hembre, S. Soensthagen	775
AN INTRODUCTION TO THE TOPIC OF NON-FUNGIBLE TOKENS FOR THE EDUCATIONAL SECTOR A. Pfeiffer, S. Bezzina, N. Denk, V. Vella, A. Dingli	776
RETHINKING VISUAL ARTS EDUCATION WITH NEW TECHNOLOGIES AND RESOURCES DURING THE COVID PANDEMIC L. Stefan, M. Motaianu, C. Motaianu	782
DELIVERING THE COMPUTING CURRICULUM ONLINE: CHALLENGES AND OPPORTUNITIES O. Pishchukhina	792
GENDER DIFFERENCES IN SPATIAL THINKING ONLINE TRAINING N. Segura Caballero, G. Maresch	802
FLIPPED-ICT METHODOLOGICAL EXPERIENCE FOR THEORETICAL AND PRACTICAL SUBJECTS OF DIFFERENT ENGINEERING DEGREES S. Mateo Ouero, M. Cuevas Aranda, S. Peinado Serrano, H. Silva de Arauio, A.J. Mova López	809
D. Maico Oucro, M. Cuevas Aranaa, D. Feinaao Berrano, H. Silva de Arano, A.J. Mova Lonez	

TEACHING PHRASAL VERBS: A PROJECT IMPLEMENTING H5P L. Prades-Yerves	819
LEARNING TO PLAY AND PLAYING TO LEARN: AN ACCOUNT OF INTERCOMPREHENSIVE GAME-BASED LEARNING WITH MULTILINGUAL STUDENTS K. Steil	826
INNOVATIVE ASSESSMENT AND FEEDBACK STRATEGIES IMPACTING KEY STAKEHOLDERS IN RELATION TO THE INDUSTRY PLACEMENT MODULE IN THE SCHOOL OF BUSINESS UNDERGRADUATE PROGRAMMES C. Murphy, D. McSweeeney, M. Collins, E. O'Brien	835
HOW DO LEARNERS PERCEIVE TEAM TEACHING? DEVELOPMENT AND VALIDATION OF THE LEARNERS' TEAM TEACHING PERCEPTIONS QUESTIONNAIRE (LTTPQ) M. Simons, D. De Weerdt	843
MOBILE SENIOR: A NEW SENIOR PROFILE FOR MOBILE DEVICE USE L. Rocha Machado, A. Helena Sonego, J. Mendes, A. Goulart Rodrigues, P. Behar	852
FORMATION OF CONVERSATION SKILLS AMONG SECONDARY SCHOOL STUDENTS IN FOREIGN LANGUAGE CLASSES E. Nazmieva, G. Chumarina, N. Pershina	861
THE ROLE OF USER-GENERATED CONTENT IN BRAND COMMUNICATION AND THE TACTICS TO ENCOURAGE IT T. Limba, A. Šidlauskas, E. Juozėnaitė	865
EXPERIENTIAL LEARNING WHEN TEACHING THE TOPIC "IMPLEMENTATION OF HAMMING ENCODERS AND DECODERS USING COMPUTER-BASED TRAINING TOOLS" A. Borodzhieva, I. Tsvetkova	872
IMPROVING THE RISK CULTURE BY EDUCATING MANAGERS IN THE ENTERPRISE M. Hudáková, K. Kardoš	882
PROJECT-BASED LEARNING APPROACH USED FOR TEACHING AND LEARNING THE TOPIC "DESIGN OF INFINITE IMPULSE RESPONSE FILTERS IN MATLAB" IN THE COURSE "DIGITAL SIGNAL PROCESSING" DURING COVID-19 PANDEMIC A. Borodzhieva, I. Tsvetkova	892
INNOVATION OF THE SECURITY MANAGEMENT PROGRAM OF THE FACULTY OF SECURITY ENGINEERING K. Kampová	901
THE STUDY ON THE PROCESS OF INDIGENOUS KNOWLEDGE BASED TEACHING MATERIAL DEVELOPMENT IN TAIWAN J.Y. Yang	905
INTEGRATING RESEARCH INTO STEM EDUCATION: APPLICATION TO WIND ENGINEERING J. Estephan, A. Gan Chowdhury, E. Salna, J. Erwin, H. Landorf, R. Dou	910
ESCAPE PASSIVE LECTURES: AN INTERACTIVE, MULTI-THEMED DIGITAL ESCAPE ROOM ON MEDICINAL CHEMISTRY TOPICS A.S. Abdul Rahim, K.M. Chuah	915
SPECIAL EXPONENTIAL DIOPHANTINE EQUATIONS T. Riemel	920
BUILDING A SENSE OF LEARNING COMMUNITY DURING THE ENGLISH CLASSES AT THE "NICOLAE BALCESCU" LAND FORCES ACADEMY OF SIBIU G. Mihaila Lica	926
TECHNICAL TRANSLATION IN TRANSLATOR TRAINING G. Kovács	930
STUDYING BRITISH CULTURE – VISIT TO A LIBRARY G. Kovács, I. Gönczi	938
CAN THE TRANSTHEORETICAL MODEL OF CHANGE BE USED TO MODIFY ORGAN DONATION BEHAVIOR IN NURSING STUDENTS? S. Coronil-Espinosa, P. Bas-Sarmiento, M. Fernandez-Gutierrez, M. Poza-Méndez	946
THE IMPERATIVE OF STUDENTS AND TEACHERS' WELL-BEING IN FINNISH UNIVERSITY: A BIBLIOMETRIC APPROACH S. Olaleye, E. Olaleye	953

AUTOMATED GENERATION OF MANDARIN EDUCATIONAL MULTIMEDIA CONTENT FROM EXISTING ENGLISH CONTENT M.J. Israel, A. Qin, Y. Zhang, J. Xin, N. Shaghaghi	963
DISTANCE EDUCATION METHODS IN A PANDEMIC SITUATION FOR STUDYING THE TOPIC "INVESTIGATING COVERAGE AND INTERFERENCE IN MOBILE CELLULAR NETWORKS" 1. Tsvetkova, A. Borodzhieva	973
INTERACTIVE METHODS DURING ONLINE LEARNING WHEN TEACHING THE TOPIC "SPECTRAL ANALYSIS OF SIGNAL HARMONICS" I. Tsvetkova, A. Borodzhieva	983
DEVELOPMENT OF RISKY BEHAVIOR OF PUPILS AND ITS PREVENTION AT CZECH PRIMARY SCHOOLS DURING THE COVID-19 PANDEMIC AND DISTANCE LEARNING M. Krajňáková, T. Čech	991
TAPPING INTO POWER OF VISUALS TO ENHANCE EFL STUDENTS' COMMUNICATIVE SKILLS R. Yakhina, D. Dudkova	996
TEACHING OF PERIODIC NON-SINUSOIDAL MODES OF ELECTRICAL CIRCUITS VIA SOFTWARE ENVIRONMENTS V. Raydovska	1001
IMPLEMENTING A FLIPPED CLASSROOM IN THE REMOTE ONLINE LEARNING ENVIRONMENT K. Adzima	1010
THE FORMATION OF PROFESSIONAL COMMUNICATION COMPETENCE IN RUSSIAN OF FOREIGN POSTGRADUATES NON-PHILOLOGISTS L. Iarkina, V. Abyshkina, Y. Merkulova, D. Maryanovich	1011
THE TEACHING OF ARCHITECTURE IN TIMES OF PANDEMIC: NEW TECHNOLOGIES IN COLLABORATION IN THE INTERACTION BETWEEN STUDENTS AND TEACHERS N. Soares de Araujo, A. Piffer	1016
A BIBLIOMETRIC APPROACH TO GLOBAL TEACHER'S TRAINING AND SUPPORT S. Olaleye	1024
AN APPROACH TO TEACHING PROJECTILE VELOCITY MEASUREMENT IN BALLISTICS	1032
J. Skala, M. Macko, I. Pemcak, K. Abraham, Z. Krist, M. Cervenka	
BURNOUT SYNDROME AND STRESS MANAGEMENT OF TEACHERS I. Plevová, L. Váchová, M. Pugnerová, V. Kavková, S. Dobešová Cakirpaloglu, J. Kvintová, B. Kvapilová	1041
THE EXPERIENCE OF MOBBING AND THE NEGATIVE IMPACT ON THE PERCEIVED PERSONAL DISCOMFORT IN PRIMARY SCHOOL TEACHERS M. Pugnerová, I. Plevová, L. Váchová, S. Dobešová Cakirpaloglu, J. Kvintová, J. Dočkalová	1049
WORKING TOWARDS EQUITY OF ACCESS AND SUCCESS IN STEM AT STELLENBOSCH UNIVERSITY IN SOUTH AFRICA M. Mouton	1059
TOOLS TO IMPROVE EFFICIENCY AND CONSISTENCY IN ASSESSMENT PRACTICES WHILST DELIVERING MEANINGFUL FEEDBACK N. Palmer	1069
A FRAMEWORK FOR CENTERING INTRODUCTORY STATISTICS AROUND THE LOGIC OF INFERENCE R. Pierce, M. Brenneman, A. Dehili	1079
FRACTURES AT L1 AND T12 VERTEBRAE: A FOLLOW-UP COMPUTED TOMOGRAPHY SCAN AFTER TWO YEARS SHOWING BONE SPURS D. Moeller, K. Budisalich, C. Gunter, M. Myler, T. Kelsey, G. Maddux, B. Schroer	1089
TRAINING OF A DIVERSE SCIENCE WORKFORCE IN A UNIVERSITY-INDUSTRY-GOVERNMENT RESEARCH PARTNERSHIP: CENTER FOR CELLULAR CONSTRUCTION F. Bayliss, Z. Gartner, W. Marshall, K. Rath, A. Peterfreund	1099
TECHNOLOGIES IN LITERARY EDUCATION J. Hrinak	1110
OBSERVATION IN ENGLISH LANGUAGE PEDAGOGY RESEARCH J. Hrinak	1115

DEVELOPING AND EMPOWERING AUTONOMOUS LEARNERS DURING AND POST-PANDEMIC	1122
P. Koayess, J. Althawahrih, M. Massara	
THE NATIONAL DIGITAL ACCESS IMPERATIVE FOR 4IR: ASSESSING DIGITAL SKILLS COMPETENCE IN RURAL SOUTH AFRICA B. Ngoqo	1123
MANIFESTATIONS OF SOCIAL EXCLUSION OF STUDENTS: SCIENTIFIC AND PRACTICAL ASPECTS AND EVALUATION OF THE EFFECTIVENESS OF THE TEACHING STAFF	1132
N. Havrylova, L. Platash, O. Havrylov, O. Konstantyniv	
WHERE DO WE GO FROM HERE? DIDACTIC AND ORGANIZATIONAL QUESTIONS AFTER THE PANDEMIC S. Willermark, M. Abrahamsson, L. Adolfsson, M. Frykman, M. Gellerstedt, P. Nilsson, L. Svensson	1144
ONLINE EVENTS AS A TOOL TO DEVELOP STUDENTS' PROJECT MANAGEMENT SKILLS L. Bellotti, A. Kimberley	1152
OUTREACH ACTIVITIES ON INSTAGRAM IMPROVE EDUCATIONAL AND PHYSIOLOGY COMPETENCIES: RELATIONSHIP WITH THE COURSE OF THE ENROLLED DEGREE	1153
A. Santana-Garrido, S. Arguelles, M.L. Carrascal-Moreno, M.D. Vázquez-Carretero, P. García-Miranda, F. Nogales, C.M. Vázquez, P.A. Nuñez-Abades, M.L. Calonge, M.J. Peral, M.M. Cano, A. Mate, O. Carreras, M.L. Ojeda	
DESIGNING TEACHING MATERIAL FOR WORKPLACE PEDAGOGY IN SCHOOL S. Carlsson, S. Willermark	1154
USING INSTAGRAM TO INCREASE UNIVERSITY EDUCATIONAL SKILLS. THE PROFESSORS' POINT OF VIEW M.L. Ojeda, S. Arguelles, A. Mate, M.L. Carrascal-Moreno, M.D. Vázquez-Carretero, P. García-Miranda, F. Nogales, C.M. Vázquez, P.A. Nuñez-Abades, M.L. Calonge, M.J. Peral, M.M. Cano, O. Carreras, A. Santana-Garrido	1160
A REFLECTIVE PRACTICE PERSPECTIVE ON DEVELOPING PROFESSIONAL DIGITAL COMPETENCE AMONG TEACHERS H. Haugsbakken, S. Brynildsen	1168
SAGE SOFTWARE FOR MOODLE VIA SAGE CELL: HOW TO ENHANCE THE LEARNING ENVIRONMENT WITH MATHEMATICAL SOFTWARE J. Jánský, J. Jekl, V. Růžička	1177
RESEARCHING PSYCHOLOGICAL SAFETY AMONG WELFARE AND INNOVATION STUDENTS	1186
G. Andersson, B.B. Sæthern, A.M. Glømmen, T.Å. Langvik, P.A. Sandhaug, O. Hallgren, K.K. Westbye ROLE-PLAY GAME APPLIED TO MATHS TEACHING: REPRESENTATIONS OF PUPILS ABOUT A DIGITAL ROLE-PLAY GAMING PLATFORM M. Cruz, P. Medeiros, E. Nunes	1194
RELATIONSHIP OF DIFFERENT ASSESSMENT TYPES IN AN ONLINE INTERDISCIPLINARY COURSE A. Millet, E. Dinc, H. Mccune Bruhn, M. Feineman	1203
ENTREPRENEURSHIP AND INNOVATION IN EDUCATION: LEADING CHANGE S. Davis, P. Holanchock	1209
SUPPORT MEASURES AGAINST COVID-19 FOR SCHOOL INSTITUTIONS: A LINED PROPOSAL WITH TECHNOLOGIES BASED ON ARTIFICIAL INTELLIGENCE R. Coutinho, P. Notargiacomo	1214
ASSESSMENTS IN E-LEARNING ENVIRONMENTS O. García, F. Leon, M. Pineda, A. Aguilar	1215
FORMATION OF SOFT SKILLS AMONG MANAGEMENT STUDENTS DURING COVID-19 S. Shchelokova, I. Suslova	1221
APPLICATION OF REVERSE ENGINEERING TECHNIQUES FOR LEARNING MANUFACTURING PROCESSES E. García-Martínez, V. Miguel, A. Molina-Yagüe, A. Martínez-Martínez	1226
ONOMASTICS KNOWLEDGE OF HUNGARIAN MINORITY SECONDARY GRAMMAR AND TRADE SCHOOL STUDENTS OF SLOVAKIA L. Angyal	1235

THE POSSIBILITIES OF HUNGARIAN TOPONYMIC RESEARCH IN EDUCATION IN SLOVAKIA L. Angyal	1244
A SOCIOMATERIAL CONNECTIVIST PERSPECTIVE: A NEED FOR DEVELOPING ALGORITHMIC COMPETENCE H. Haugsbakken	1252
MEDICAL ENGLISH FOR ACADEMIC PURPOSES: THE IMPACT OF A NEW GUIDE FOR POSTGRADUATES ON DEVELOPING SPECIFIC COMMUNICATION SKILLS A. Barnau, N. Ferková	1262
THE MOST COMMON MISTAKES IN TRANSLATION FROM LATIN AND GREEK INTO MEDICAL ENGLISH: THE ANALYSIS OF WRITTEN TESTS AT JESSENIUS FACULTY OF MEDICINE IN SLOVAKIA A. Barnau, M. Čovan	1268
INTRODUCING AN ACCESSIBLE TASK-BASED LEARNING (ATBL) APPROACH TO INCLUSIVE ENGLISH LANGUAGE TEACHING (IELT) AT THE UNIVERSITY OF VERONA S. Hartle, E. Tenca	1273
VIRTUAL SERVICE-LEARNING: A TOOL TO IMPROVE STUDENTS' SKILLS TRAINING AND EMPLOYABILITY M.C. González Rabanal, A.J. Acevedo Blanco	1274
ENGLISH LEARNING INFANTS: EXPERIENCES OF FAMILIES A. Güven, C. Demirci	1280
PRE-SERVICE TEACHERS' VIEWS OF DIFFERENT ANIMAL WELFARE ISSUES: IMPLICATIONS FOR TEACHER TRAINING COURSES A. Almeida	1281
THE DEVELOPMENT OF CRITICAL THINKING IN SCIENCE: A CASE STUDY WITH STUDENTS OF THE 5TH YEAR OF SCHOOLING J. Lino, A. Almeida	1290
DIGITAL TECHNOLOGIES RESPONSIVENESS AND IMPACT TO THE DISRUPTED TEACHING AND LEARNING DURING LOCKDOWN IN HIGHER EDUCATION <i>P. Molomo</i>	1296
BUILDING A COLLEGIAL APPROACH TO STUDENT ENGAGEMENT AND TECHNOLOGY-ENHANCED LEARNING INITIATIVES K. Green, K. Newell, S. Downie, P. Stapley, J. Steele, T. Mitchell, J. Sampson, P. Else, H. Groeller, B. Meyer, M. Brown, D. McGhee, X.F. Huang	1303
INDIGENOUS LITERATURE IN THE TEACHING OF PORTUGUESE AS A FOREIGN LANGUAGE IN HIGHER EDUCATION M. Silva	1304
A STUDY ON THE EFFECTIVENESS OF REMEDIAL LESSONS IN MATHEMATICS AND PHYSICS FOR POLYTECHNIC FOUNDATION PROGRAMME STUDENTS A. Dewanto, M. Lim, P. Phang	1310
INTEGRATION OF EDUCATIONAL ADMINISTRATION ECOSYSTEM MODEL COMPONENTS FOR SUSTAINABLE DEVELOPMENT K. Niedre-Lathere, A. Samuseviča	1316
APPLICATION OF DESIGN THINKING IN THE UNIVERSITY OF DEFENCE STUDENT'S LEARNING PROCESS L. Rak, Ĺ. Hradský	1324
DESIGN AND VALIDATION OF A GUIDELINE TO SUPPORT THE IMPLEMENTATION OF SYSTEMIC RESILIENCE PRACTICES WITHIN ENTERPRISES B. Arenas, A. Solomon, A. Morgado, I. Rafail, R. Comas Forgas	1329
COVID-19 AND LEARNING: PERCEPTIONS OF 4TH GRADE STUDENTS C. Ferreira, A. Bastos	1331
ENHANCING THE EMPLOYABILITY OF HIGHLY EDUCATED IMMIGRANTS IN COLLABORATION WITH A HIGHER EDUCATION INSTITUTION AND LOCAL EMPLOYMENT SERVICES A. Karjalainen	1336
CHALLENGES AND BENEFITS TO SOFTWARE ENGINEERING GROUP PROJECT CONTEXTS E.M. Watson	1342

EXPLORING THE EFFICACY OF A RANGE OF CRITICAL THINKING AND PROBLEM SOLVING TECHNIQUES IN DEVELOPING AN INSTRUCTOR GUIDE D. Gordon, P. Doyle, A. Becevel, T. Baloh	1349
THE LINK BETWEEN EMOTIONAL INTELLIGENCE AND PERSONALITY S. Lemrová, S. Dobesova Cakirpaloglu, B. Kvapilová, I. Balaban Cakirpaloglu	1357
E-PORTFOLIO AND REFLECTION: POWERFUL PEDAGOGICAL TOOL FOR LEARNING Y. Amadu, Y. Oheneba-Sakyi	1364
INSTAGRAF 2.0 A LEARNING TOOL. NEW CHALLENGES AND OPPORTUNITIES TO IMPROVE UNIVERSITY LEARNING B. López-Plaza, M.C. Lozano-Estevan, A. Aparicio, L.G. González-Rodríguez, L.M. Bermejo, V. Loria-Kohen, A. Peral-Suárez, M.D. Salas-González, A.M. Lorenzo Mora, J.F. Duran Guio, M.M. Larrosa Pérez, R.M. Ortega Anta, A.M. López-Sobaler	1368
LAB MATH: A CREATIVE LABORATORY FOR RENEWED MATHEMATICAL LEARNING Y. Cerezo López, M.C. Valbuena Martínez	1377
RUBRICS FOR THE SELF-ASSESSMENT OF SCALE MODELS AND DRAWINGS IN INDUSTRIAL DESIGN: THE IMPORTANCE OF USING DETAILED PERFORMANCE-LEVEL DESCRIPTIONS F. Felip	1384
INDIAN SCIENCE TEACHERS RELUCTANCE TO ENGAGE IN INQUIRY METHODOLOGY D. Cline	1393
PROBLEM SOLVING SKILLS: ANALYSIS OF THE RELATIONSHIPS BETWEEN COMPUTATIONAL THINKING AND READING COMPREHENSION A. Kakucs, K. Harangus	1394
DOCTORAL STUDENTS' SELF-ASSESSED KNOWLEDGE AND ABILITY IN TERMS OF RESEARCH METHODS W.M. Phyo, M. Nikolov, A. Hodi	1402
REFLECTIVE TEACHING AND LEARNING IN TEACHER EDUCATION: CHALLENGES AND POSSIBILITIES R. Bubnys	1412
ACADEMIC DISHONESTY AMONGST POSTGRADUATE STUDENTS: THE EVOLUTION OF MISCONDUCT BASED ON EXPERTS' KNOWLEDGE R. Comas Forgas, A. Cerdà-Navarro, L. Moreno-Herrera, J. Sureda-Negre	1413
DESIGNING EXHIBITION SPACE TO SUPPORT EARLY CHILDHOOD EDUCATION IN SCIENCE MUSEUMS: THE COMPASS OF THE NATIONAL MUSEUM OF NATURE AND SCIENCE IN JAPAN A. Takahashi, E. Yamaguchi, S. Inagaki	1414
VALIDATING A CROSS-CULTURAL MEASURE OF EPISTEMIC COGNITION IN SCIENCE-AN EFA APPROACH D. Cairns	1418
A COMPLEX INTERVENTION FOR INCLUSIVE KINDERGARTENS – ANALYSIS OF A SOZIALMARIE PRIZE WINNER INNOVATION IN BUDAPEST I.J. Kovács, É. Deák, G. Erőss	1419
CAN WE INVESTIGATE SOMETHING WE CANNOT SEE? STIMULATING CRITICAL THINKING ABOUT KNOWLEDGE IN THE HISTORY AND SCIENCE CLASS L. Van Den Broeck, B. Delanote, L. Vervacke, V. Verschoren, J. De Schrijver	1424
UNPACKING SOCIAL MEDIA CONVERSATIONS TO FIND PRODUCTIVE DIALOGUE K. Ekman	1432
TEACHER NETWORK ADDING VALUE FOR STUDENTS T.C. Votkin, H. Laurikainen	1441
IS THE EARTH WITHOUT PEOPLE A BETTER WORLD? STIMULATING REFLECTION ABOUT SUSTAINABILITY IN STEM COURSES V. Verschoren, L. Van Den Broeck, E. Cornelissen, S. Raeman, F. Mennes, J. De Schrijver	1442
VIRTUAL TEAMS AS AN ARENA FOR LEARNING IN ONLINE EDUCATION - PERSPECTIVES FROM STUDENTS P.A. Godejord	1449

GREEN GROWTH: TOWARDS THE DECARBONISATION OF THE CONSTRUCTION SECTOR THROUGH VOCATIONAL EDUCATION AND TRAINING C. García, F. Bertelmann-Angenendt, C. Bricteux, N. Chpiliotoff, C. Frey, V. Kuzma, V. Laroche, J.	1455
Longmuss, A. Palatinus, L. Pavan, B. Remacle URSTEAM: A NEW ACADEMIC PROPOSAL OF THE UNIVERSIDAD DEL ROSARIO IN	1463
RESPONSE TO NEW DYNAMICS OF SOCIETY R. Méndez-Romero, G. Castelblanco-Arias, S. Pulgarín-Molina, C. Mancera	
SWEDISH IN FINLAND - A MOOC PROMOTING INTEGRATION S. Sevón, T.C. Votkin	1468
ACTIVITIES, ACHIEVEMENTS AND ABILITIES: A MODEL FOR EMBEDDING MENTAL WELLBEING IN TECHNOLOGY-ENHANCED LEARNING K. Lister	1469
CORRELATION OF TRADITIONAL AND DIGITAL CONTROL FORMS IN THE PROCESS OF TEACHING FOREIGN LANGUAGES L. Moskovkin, E. Selezneva, E. Chernovets, E. Chirkova	1480
ONLINE AND FACE-TO-FACE TEACHING PHYSICS USING AN INTERACTIVE METHOD - VIDEO ANALYSIS P. Hockicko, G. Tarjányiová, J. Kúdelčík	1485
THE STRATEGY FOR EDUCATION AND IMPLEMENTATION OF PHOTOGRAMMETRIC 3D DIGITIZATION IN CULTURAL HERITAGE INSTITUTIONS V. Stojaković, R. Obradović, I. Đurić, I. Vasiljević, M. Obradović, J. Kićanović	1495
3D DIGITIZATION AND VIRTUAL APPLICATION AS TOOLS FOR EDUCATION ABOUT CULTURAL HERITAGE 1. Đurić, 1. Vasiljević, M. Obradović, J. Kićanović, V. Stojaković, R. Obradović	1496
RESEARCH ADVANCEMENT ACTIVITIES AS A VECTOR FOR EXECUTIVE EDUCATIONAL LEADERSHIP PRACTICES L. Kvinikadze, N. Campbell, J. Crockett	1505
THE ROLE OF DOCTORAL STUDENTS' MOTIVATION AND ANXIETY IN THEIR ENGLISH ACADEMIC WRITING W.M. Phyo, M. Nikolov, A. Hodi	1515
FROM A PERSONAL TO A MORE SOCIAL VIEW OF STUDENTS' ACADEMIC PERFORMANCE: THE IMPORTANCE OF PEER SELECTION AT UNIVERSITY J.V. Tomás-Miquel, J. Capó-I-Vicedo, J. Capó-Vicedo	1522
TEACHER'S PERSONAL AND PROFESSIONAL GROWTH THROUGH REFLECTION: RESULTS OF A LONG-TERM ONE CASE STUDY R. Bubnys, N. Kaunickienė	1527
DESIGNING AND PROGRAMMING GAME-BASED LEARNING WITH HUMANOID ROBOTS: A CASE STUDY OF THE MULTIMODAL "MAKE OR DO" ENGLISH GRAMMAR GAME WITH THE PEPPER ROBOT I. Buchem, A. Mc Elroy, R. Tutul	1537
THE SIMULATION OF SCIENTIFIC CONFERENCES AS A LEARNING TOOL IN THE SUBJECT OF ORAL IMPLANTOLOGY M.D. Gómez-Adrián, C. Larrazábal-Morón, J. Enciso-Ripoll, J. Barberá-Millán, J. Espinosa-Giménez,	1546
L. Miralles-Jordá, B. Gil-Marqués 360-DEGREE CURRICULUM REVIEW OF AN ONLINE PROFESSIONAL MASTER'S PROGRAM	1547
W. Lu, B. Zoghi	
PROSPECTS FOR DATA CENTER INDUSTRY EDUCATIONAL OUTREACH PROGRAMS IN THE STATE OF TEXAS D. Day, R. Mody, B. Zoghi	1557
THE CONCEPT OF QUALITY IN HIGHER EDUCATION FROM THE PERSPECTIVE OF STUDENTS: IMPLICATIONS FOR THE UNIVERSITIES QUALITY MANAGEMENT SYSTEM M. Varia, M. I. Navier, P. Fragens	1567
M. Varela, M.L. Neves, R. Fragoso CREATING INNOVATIVE METHODOLOGIES FOR VET STUDENTS TO CARRY OUT VIRTUAL INTERNSHIPS IN TECHNOLOGY COMPANIES L. Gómez Estrada, L. Pietra, L. Gómez Estrada, S. Randaccio, C. Zoli, V. García Ortuño, R. Navarro Cerveró, J. S. Nunes, P. Carrolaggi, P. Karampelas, C. Solano Martínez, J.L. Gómez Ribelles, A. Soriano Martínez	1574

INTEGRATING CULTURAL AWARENESS INTO THE ENGINEERING DESIGN PROCESS P. Gorder	1583
RELATIONSHIPS AMONG TEACHER BELIEFS ABOUT STEAM EDUCATION, PERCEPTIONS OF SCHOOL CLIMATE, AND ENACTED PRACTICES J.P. Stein, J. Craven	1591
GAMIFICATION IN ELECTRICAL / ELECTRONIC ENGINEERING EDUCATION: THE USE OF KAHOOT IN A COURSE ON TELECOMMUNICATIONS N. Voudoukis, G. Pagiatakis, D. Uzunidis	1592
A POSSIBLE MASSIVE OPEN ON-LINE COURSE (MOOC) ON TELECOMMUNICATIONS N. Voudoukis, G. Pagiatakis, D. Uzunidis	1598
EDUCATIONAL ESCAPE ROOMS: A BIBLIOMETRIC ANALYSIS A.S. Abdul Rahim, M.I. Ismail, A. Razali	1603
JEWISH AND ARAB TEACHERS' ATTITUDES TOWARDS TEACHING SECOND AND FOREIGN LANGUAGE IN ISRAEL K. Kawar	1612
A MENTORING PROGRAM FOR THE INTEGRATION OF NEWLY ARRIVED MIGRANTS INTO THE SCHOOL ENVIRONMENT OF THE HOST COUNTRY I. Xenophontos, P. Kosmas, E. Xeni	1613
SR BATTLESHIP L. Square	1619
GLOBALIZATION, ACCREDITATION, AND TEACHER EDUCATION IN THE EMIRATES K. Gallagher, A. Dillon, R. Tamim	1626
APPLICATION OF LOW-COST SENSORS IN THE INNOVATION OF TEACHING BIOMEDICAL ENGINEERING J. Kúdelčík, P. Hockicko	1631
IMPLICIT VALUES AND AUTOBIOGRAPHICAL OBJECTS: RAISING AWARENESS IN UNIVERSITY EDUCATIONAL CONTEXTS M. De Simone, F. Marone, A. De Simone	1637
STUDYING OF ACTIVE LOW-PASS FILTERS VIA VIRTUAL ENVIRONMENTS IN ENGINEERING EDUCATION V. Raydovska	1646
SPEAK YOUR MIND: INTRODUCING APTLY, THE SOFTWARE PLATFORM THAT TURNS IDEAS INTO WORKING APPS D.Y.J. Kim, A. Granquist, E. Patton, M. Friedman, H. Abelson	1653
RESEARCH-BASED LEARNING APPLIED TO TEACHING IN BUILDING DEGREE COURSES	1661
C. Morón, D. Ferrández, M. Alvarez, J.P. Diaz Velilla EUROPEAN PROJECTS MOTIVATE STUDENTS TO PARTICIPATE IN INTERNATIONAL CO-CREATION WORKSHOPS IN A DESIGN THINKING COLLABORATIVE LEARNING APPROACH	1668
M. Caetano, S. Mendes, R. Gamboa GOALS FOR SUSTAINABLE DEVELOPMENT IN UNIVERSITY EDUCATION: COOPERATION THROUGH EELISA COMMUNITIES D. Ferrández, M. Fernández, A. Zaragoza, C. Morón	1672
EXPERIENCES OF TEACHING AND LEARNING WITH SOCIAL ROBOTS S. Ekström	1678
IMPROVING THE QUALITY AND INNOVATION OF HIGHER EDUCATION IN THE STUDY PROGRAM CRISIS MANAGEMENT K. Buganová, E. Mošková	1686
ANALYSIS OF STUDENTS' OPINION ABOUT NECESSITY OF EDUCATION IN THE FIELD OF "NEUROREHABILITATION IN NEUROLOGICAL COMPLICATIONS OF COVID-19" R. Yoshinov, I. Koleva, B. Yoshinov	1693
RELATIONSHIP BETWEEN THE IMPLEMENTATION OF PROFESSIONAL REFLECTION FREQUENCY AND THE DIFFICULTY OF APPLYING THE DIAGNOSTIC COMPETENCE OF MENTOR TEACHERS	1699
R. Orosová. M. Novocký. K. Petríková	

COMPARISON OF FIRMS' INNOVATION DETERMINANTS IN THE ERA OF OPEN INNOVATION: CENTRAL EUROPEAN CASE FOR EFFICIENT UNIVERSITY-INDUSTRY COOPERATION L. Růžičková, V. Prokop, J. Stejskal, F. Ur Rehman	1706
THE EFFECTS OF PUBLIC SUBSIDIES ON FIRMS' INNOVATION AS A FORM OF INDUSTRY-GOVERNMENT PARTNERSHIP: COMPARISON OF WESTERN AND CENTRAL EUROPEAN COUNTRIES	1713
M. Mazel, V. Prokop, J. Stejskal, F. Ur Rehman	
ELECTRONIC LEARNING IN THE EDUCATIONAL MODULE "NEUROREHABILITATION IN NEURO-COVID" (WITH CLINICAL CASES) I. Koleva, B. Yoshinov, R. Yoshinov	1719
THE HYBRID CLASSROOM: POST-COVID19 SUCCESS FACTORS AND SPECIFICATIONS FOR DUAL-MODE TEACHING AND LEARNING D. MacKevett, P. Feubli	1728
INFORMATIVE CAPSULES AS A DISRUPTIVE TOOL FOR AUTONOMOUS STUDENT LEARNING IN UNIVERSITY ARCHITECTURE STUDIES P. Miguel-Sin Monge, A. San José Cabrero, S. Domínguez Gil, G. Ramírez Pacheco	1736
THE STEAMONEDU ONTOLOGY: A SEMANTIC WEB ONTOLOGY FOR STE(A)M EDUCATION N. Spyropoulou, A. Kameas	1744
IMPROVING SKILLS AND EMPLOYABILITY POTENTIAL OF UNIVERSITY STUDENTS M. Lusková, K. Buganová	1754
CONTEMPORARY INFORMATION AND COMMUNICATIONS TECHNOLOGIES IN THE LEARNING PROCESS: CASE OF UNDERGRADUATE STUDIES IN TOURISM 1. Tsener	1759
PROFESSIONAL REFLECTION TYPES OF HIGH SCHOOL TEACHERS AS PREDICTORS OF BURNOUT M. Novocký, R. Orosová, K. Petríková	1763
PRE-SERVICE TEACHERS ENGAGING IN CO-TEACHING: A TRANSFORMATIVE LEARNING PERSPECTIVE B. Lenong	1771
PARENTS' VIEWS ON THE ORGANIZATION OF ONLINE EDUCATIONAL PRACTICE IN KINDERGARTEN S. Tomaš, M. Vrdoljak, D. Delić	1778
ANATOMY TALKING BOOK AND PODCAST: ASSISTIVE TECHNOLOGY IN HIGHER EDUCATION CONTRIBUTING TO INCLUSIVE EDUCATION IN HEALTH COURSES T. Lima, L. Martins, C. Rodrigues, N. Pedro, L. Santiago, T. Oliveira, R.M. Mariani Braz	1787
EXPLORING GLOBAL CONNECTIONS VIA PLACE- BASED IMMERSION WITHIN THE QUARTIER OF BELLEVILLE: AN URBAN REFUGE FOR REVOLUTIONARIES, BOHEMIANS, ARTISTS, AND IMMIGRANTS IN THE CITY OF LIGHT <i>J. Strait</i>	1788
EXPERIENCES WITH A MULTIDISCIPLINARY PROJECT AT THE PREPARATORY COURSE FOR ENGINEERING STUDIES T. Schjem, V. Talmo, E. Krystad, H. Røli Karlsen	1798
THE EFFECT OF THE COMPUTATIONAL ACTION PROCESS ON STUDENTS' SOFTWARE PROTOTYPE IDEAS H. N. Pang, R. Parks, C. Breazeal, H. Abelson	1804
DIGITAL REALITIES IN EDUCATION: PROJECTS IMPLEMENTED USING AUGMENTED REALITY IN PORTUGAL P.N. Rito	1815
AUGMENTED REALITY IN PORTUGAL: ITS USE, ITS DEVELOPMENT, AND CONTEXTS $P.N.\ Rito$	1823
AN EXAMINATION OF SECONDARY READING INTERVENTIONS FOR SPECIAL EDUCATION AND THE RESULTING DEPARTMENT RESOURCE TO SUPPORT OUR STUDENTS J. Fundine	1831
SIBLINGS OF STUDENTS WITH DISABILITIES: A (NON)EXISTENT CATEGORY OF STUDENT POPULATION? A Blazavic Simic	1840

DESIGN THINKING ONLINE IS FOR EVERYBODY EVERYWHERE C. J. Vallis	1848
TEACHING PROGRAMMING ON ZOOM—LESSONS LEARNED FROM VIRTUAL CLASSES IN THE TIMES OF COVID-19 X.Y. Suo	1849
PILOTING THE LEARNING BY DEVELOPING ACTION MODEL PEDAGOGY IN FINLAND HEIS T. Lintilä, M. Zarb	1856
MICROHISTORY, MUNICIPAL ARCHIVES AND DIGITIZATION: SOME OBSERVATIONS FROM BULGARIA H. Atanasov, P. Stamenova	1866
ICT IN SERVICE OF COLLECTING INFORMATION ON THE ARCHIVAL DOCUMENTARY HERITAGE OF THE BULGARIAN REVIVAL H. Atanasov, Y. Nikolov, I. Marinova	1872
ASSESSING THE LEVEL OF TEACHERS' COMPUTATIONAL THINKING SKILLS THROUGH TASK-BASED LEARNING IN SCRATCH V. Voinohovska, J. Doncheva	1880
ASSESSMENT OF ALGORITHMIC AND LOGICAL THINKING OF FIRST- AND SECOND-YEAR COMPUTER SCIENCE STUDENTS AT J. SELYE UNIVERSITY IN ACADEMIC YEARS 2019/20 AND 2021/22 L. Végh, Š. Gubo	1888
STUDY OF USING SCRATCH AS AN INNOVATIVE TOOL OF ESTABLISHING CONDITIONS FOR AN INTERDISCIPLINARY-ORIENTED LEARNING PROCESS V. Voinohovska, J. Doncheva	1896
BECOMING A REFLEXIVE PROFESSIONAL A. Kimberley	1904
ACTIVITIES FOCUSED ON MATHEMATICAL PRE-LITERACY DEVELOPMENT USING THE BEE-BOT INTERACTIVE TOY M. Uhlířová, J. Laitochová, K. Skládalová	1916
THE CONTRADICTION IN STUDENTS' DECISION-MAKING WHEN CHOOSING A FIELD OF STUDY AND THE REAL NEEDS OF EMPLOYERS ON THE LABOUR MARKET V. Blašková, H. Stojanova	1922
VALUES EDUCATION WITH CONTEMPLATIVE PRACTICES FOR MEDICAL STUDENTS <i>F. Marone, M. De Simone</i>	1931
WIDENING ACCESS INTERVENTIONS TO ENABLE ENGAGEMENT IN HIGHER EDUCATION C. O'Donnell, B. Murphy, B. Hunter, A. Toye	1941
CREATING INTERACTIVE DATA DASHBOARDS TO INFORM WIDENING ACCESS POLICY AND PRACTICE DECISION MAKING AT ULSTER UNIVERSITY C. O'Donnell, B. Murphy	1942
UNIVERSITY TUTORING BEFORE AND AFTER COVID-19: AN EXPERIENCE OF REDESIGN FROM THE UNIVERSITY OF PADUA (ITALY) R. Bonelli, A. Bonin, L. Da Re	1944
THE "DOUBLE SELECTION" MECHANISM AND PUBLIC INTERVENTIONS AIMED AT STRENGTHENING STUDENTS' COMPETENCIES – THE CASE OF THE COMPETENCE DEVELOPMENT PROGRAMME IN POLAND M. Jelonek	1953
RECOGNISING AND ADDRESSING MATHS ANXIETY WITHIN MATURE STEM STUDENTS AT A DISTANCE LEARNING UNIVERSITY S. Pawley, S. Organ	1954
WORKING GENDERPRO(O)F IN ECEC L. Vandenbussche, E. De Latter, H. Van Liefferinge	1955
E-SERVICE-LEARNING: A GERONTOLOGICAL SOCIAL WORK APPROACH D. Monteiro, C. Vieira da Silva	1956
'THOSE EXCLUDED FROM WITHIN': BARRIERS TO LEARNING AND ETHNICITY IN THE BULGARIAN SOCIAL SPACE (AN EMPIRICAL CASE) M. Tasheva, R. Madgarova, A. Epitropova, S. Penkova	1957
GENDER (IN)EQUALITIES IN EDUCATION: THE CASE OF BULGARIA S. Penkova, M. Kadieva, M. Tasheva, A. Epitropova	1963

ABOUT SOME ASPECTS OF THE TEACHING OF INTERDISCIPLINARY UNDERGRADUATE SUBJECTS L. Kalandadze	1972
RECOGNISING NEW TRENDS IN VET TOWARDS GREEN TRANSITION: EXPERIENCE FROM NORTH MACEDONIA M. Velkovska, V. Gecevska, R. Polenakovikj, T. Velkovski, B. Jovanovski, L. Polenakovikj, N. Shterjova Uzunovska, J. Kostikj	1978
CHALLENGING THE BELIEFS THAT SYNCHRONOUS ONLINE LECTURE ATTENDANCE CORRELATES TO STUDENTS' OVERALL GRADE B.Y. Toh, N. Buchanan	1985
EXAMINING STUDENT INNOVATIVE BEHAVIOR IN UNDERGRADUATE MAKERSPACE-BASED COURSES VIA INDUSTRY-BASED ENTREPRENEURIAL FRAMEWORK S. Supraja, F.S. Lim, S. Tan, S. Y. Ho, B.K. Ng, A.W.H. Khong	1995
BUILDING BRIDGES – HOW CAN TEACHERS AND STUDENTS IN THE APPLIED SOCIAL SCIENCES FACILITATE EFFECTIVE LEARNING COMMUNITIES IN THE DIGITAL CLASSROOM? N. Weimann-Sandig	2001
SYSTEMS THINKING AS A KEY COMPETENCE FOR SUSTAINABLE DEVELOPMENT AND DIGITAL TRANSFORMATION S. Armenia, G. Tsaples, J. Papathanasiou, F. Barnabé, S. Nazir	2006
AFTER THE PANDEMIC, HOW MUCH "DIGITAL LITERACY EDUCATION" DO PRESERVICE TEACHERS WANT AND NEED? RESULTS OF A STUDENT SERVEY AND THE CONSEQUENCES FOR TEACHER TRAINING G. Marci-Boehncke, X.C. Meyer	2012
LITERARY VALUES - DIGITAL TOOLS A. Pokrivčák	2020
THE IMPACT OF INCLUSIVE EDUCATION ON NATIONAL DEVELOPMENT - EVIDENCE FROM NIGERIA R.A. Sijuola	2024
DEVELOPING SCIENCE SKILLS IN PRESCHOOLERS: PRESENTATION OF THE PROJECT ERASMUS+ "N'EURO NEST 3.0" V.A. Gazdac, M.E. Cîmpean, M.D. Bocoş	2033
LEARNING IN THE MUSEUM AND THE CHALLENGES OF STEAM LEARNING R. Lebedova, M. Sapundzhiev	2038
LEARNING BY DOING – PROMPTING THE RESEARCH INTEREST AND CREATIVE PERFORMANCE OF STUDENTS R. Lebedova, M. Sapundzhiev	2044
LONGITUDINAL STUDY OF LEARNING OUTCOMES DURING COVID FOR BACHELORS GRADUATES IN COMPUTER SCIENCE K. Berkling, D. Saller, C. Winter, J. Winkler	2050
FUTURE CAREER EXPECTATIONS OF COLLEGE STUDENTS WITH AND WITHOUT LEARNING DISABILITIES AND/OR ADD/ADHD R. Michael, M. Zakai-Mashiach, P. Shavit	2058
THE MORE SUPPORT UNDERGRADUATES RECEIVE, THE GRITTIER THEY ARE $\it Z.Lu$	2059
INFORMATION TECHNOLOGIES IN FOREIGN LANGUAGE TEACHING AND LEARNING: META-ANALYSIS OF RESEARCH IN SLOVAKIA B. Horvathova	2066
INTERNATIONAL TALENTS' LANGUAGE LEARNING AND INTEGRATION SUPPORTED WITH ONE-STOP SERVICE J. Viinanen	2072
STRENGTHENING THE CRITICAL THINKING OF STUDENT TEACHERS BY APPLYING AN INTERVENTION PROGRAMME M. Kosturková	2073
FACTORS IMPACTING THE APPLICATION OF FORMAL ASSESSMENTS IN INTERMEDIATE PHASE MATHEMATICS IN SOUTH AFRICA S. Sibanda, A. Rambuda	2080

DEPARTMENT HEADS' MANAGEMENT OF TEACHING IN PRIMARY SCHOOLS P. Kalane, A. Rambuda	2081
DEVELOPING AN INTEGRATED FRAMEWORK FOR ANALYZING WAYS OF REASONING IN MATHEMATICS	2082
S. Sevinc, I. Kohanová, M. Isiksal-Bostan, Z. Kubáček, I. Isler-Baykal, M. Lada, E. Cakiroglu, B. Di Paola	
ORGANIZATIONAL CAPACITY BUILDING FOR ICT-MEDIATED TEACHING AND LEARNING PROCESSES IN A HIGHER EDUCATION INSTITUTION IN MEDELLIN, COLOMBIA	2090
J. Tabares-Quiroz, V. Salazar-Molina, S. Garcia-Gutiérrez, S. Gómez-Jaramillo	
FROM INFORMATIVE PRACTICES TO COMMUNICATIVE PRACTICES IN THE MEDIATION OF INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) IN A HIGHER EDUCATION ORGANIZATION J. Tabares-Quiroz, J. Macías-Prada, J. González-Duque	2098
REMARKS TO ORGANIZATIONAL FACTORS OF THE ACADEMIC ENGAGEMENT AT THE UNIVERSITY T. Corejova, A. Corejova	2099
PARENTAL ENGAGEMENT IN SCHOOL: TRENDS, CHALLENGES AND OPPORTUNITIES D. Dias, R. Barroso	2107
THE COGNITIVE DEVELOPMENT OF CHILDREN THROUGH RAVEN'S COLOURED PROGRESSIVE MATRICES: WHEN WHERE MATTERS R. Barroso, D. Dias	2114
INTERNATIONAL PROJECT ABOUT THE INTRODUCTION OF TRADITIONAL KNOWLEDGE ON MEDICINAL PLANTS AMONG STUDENTS OF HEALTH SCIENCES J.R. Vallejo, H. Arco, S. Roque, J.A. González, M.C. Carrasco, M.E. Gómez-Navarro, S. Postigo-Mota	2121
LEARNING MANAGEMENT SYSTEMS: IS IT TIME FOR A NEW GENERATION? A. Molinari	2122
SUPPORTING STUDENTS THROUGH INCREASING THEIR SELF-EFFICACY K. Mullamaa	2131
PEDAGOGY STUDENTS' AWARENESS OF THEIR OWN DIGITAL FOOTPRINTS J. Miková, R. Kárníková, H. Mičková	2136
DUAL LANGUAGE POLICIES TO INTERNATIONALIZE JAPANESE HIGHER EDUCATION: LANGUAGE SEPARATION WITHIN INTERNATIONAL STUDENTS? M. Shibata, A. Staicov	2143
SEXUAL DIVERSITY AND HEALTH SYSTEM HUMANIZATION. DESIGN, IMPLEMENTATION AND OUTCOMES ANALYSIS OF AN INNOVATIVE HIGHER EDUCATION CURRICULUM	2151
G. Giorgi, V. Carmona, C. Del Campo, M. Vazquez, B. López-Plaza, L.G. González-Rodríguez CULTURE IN CRISIS: PRESERVING THE ROMAGNOLO LANGUAGE THROUGH	2150
EDUCATION, KNOWLEDGE, AND TECHNOLOGICAL IMPACTS A. Christie, T. Nailor, O. Baiocchi	2159
INDUSTRY VERIFIED SKILLS BLOCKCHAIN SYSTEM (IVS) A. Elmessiry, M. Elmessiry	2163
GATELOG: EDUCATIONAL VIDEO GAME TO SUPPORT THE TEACHING OF DIGITAL ELECTRONIC CIRCUITS B.S. Vera Moreno, D.M. Rivera Pinzón	2169
APPLICATION IN VIRTUAL REALITY FOR THE LEARNING OF CONCEPTS ASSOCIATED WITH SPATIAL SOUND M.L. Franco Rojas, D.M. Rivera Pinzón	2176
"HEY, TEACHERS, LEAVE THE KIDS ALONE!" INCREASING STUDENTS' MOTIVATION FOR LEARNING ENGLISH D.E. Tutuianu	2185
TWO HEADS ARE BETTER THAN ONE! PROJECT-BASED ENGLISH CLASSES – PARTICULAR BENEFITS FOR MILITARY STUDENTS D.E. Tutuianu	2186
CZECH LEARNERS' FREQUENT MISTAKES IN ENGLISH WRITING M. Šikolová, I. Koláčková, M. Veselá	2187

A NARRATIVE INQUIRY ON SOUTH KOREAN CULTURE EXPERIENCE OF GHANAIAN STUDENTS THROUGH CRITICAL MULTICULTURALISM Y.Y. Chen, C. Hur	2192
CHILDREN'S RIGHTS IN THE PEDAGOGICAL ENVIRONMENT B. Ilieva, N. Shopova	2202
CORRELATION OF CHARACTERISTICS OF PERSONAL SELF-DETERMINATION AMONG STUDENTS WITH DISABILITIES Y. Selivanova, A. Sharov, M. Konovalova, O. Hmelkova, E. Shchetinina	2207
ENCOURAGING SOCIAL INTERACTION OF STUDENTS WITH VISUAL IMPAIRMENTS IN MAINSTREAM PRIMARY SCHOOLS IN THE REPUBLIC OF CROATIA A. Blazevic Simic, D. Noll	2211
TEACHING ADVANCED PROGRAMMING WITH COMPETITIONS X.Y. Suo	2219
GENDER IDENTITY OF PERSONALITY L. Osadcha, N. Komisarenko, O. Oliinyk, E. Polishchuk, L. Movchan	2224
THE REMOTELY WORK CHALLENGES OF LATVIAN PHYSIOTHERAPISTS DURING THE CORONAVIRUS PANDEMIC PERIOD A. Kaupuzs, I. Kaminska, E. Gorbunova	2225
TEACHING FINNISH AS A SECOND LANGUAGE TO INTERNATIONAL EXPERTS OF THE HIGHER EDUCATION $\it A. Elg$	2232
INPUTS IN MY BLOCKS IN THE SCRATCH PROGRAMMING SECONDARY PUPILS M. Tomcsányiová	2233
SHAPING PRE-SERVICE TEACHERS' BELIEFS ABOUT TEACHING ENGLISH GRAMMAR: LONGITUDINAL RESEARCH FINDINGS M. Siposova, P. Ostradicky	2241
SUCCESSFUL ENGLISH GRAMMAR INSTRUCTION SHOULD BE MULTI-FACETED AND ECLECTIC M. Siposova, I. Jurikova	2250
PICTURIZING STRATEGY: INTRODUCING A NEW PARTICIPATORY INTERVIEW TOOL IN RESEARCH WITH YOUNG CHILDREN R. Tkotzyk, J. Lategahn, G. Marci-Boehncke	2260
INNOVATIVE METHODOLOGIES TO FACE HARASSMENT AND SCHOOL LEAVING AND STOP HATE SPEECH IN EUROPE J.L. Gómez Ribelles, R. Navarro Cerveró, V. García Ortuño, R. Sixto Iglesias, M. Ferré, M.J. Jiménez Cortiñas, F. Celdrán Martínez, P. Carrolaggi, M. Duarte Oliveira, N. Kovac, C. Zoli	2266
CRISIS SITUATIONS AS AN INNOVATIVE ELEMENT OF GEOGRAPHICAL EDUCATION IN THE SLOVAK REPUBLIC H. Kramáreková, D. Jakusová, M. Nemčíková, D. Oremusová	2272
LOCAL LANDSCAPE GEOGRAPHY TEXTBOOKS IN THE SLOVAK REPUBLIC EDUCATIONAL PRACTICE D. Oremusová, M. Nemčíková, H. Kramáreková, Z. Jenisová	2282
A MODEL OF PERCEPTION OF INSTRUMENTAL MUSICAL WORKS IN PRESCHOOL AND PRIMARY SCHOOL AGE "TELL ME MUSIC" S. Smilkova	2291
THE INTEGRATION OF 3D PRINTING AND ADVANCED INDUSTRIAL ROBOTICS IN TRADITIONAL MICRO AND SMALL ENTERPRISES THROUGH EDUCATION: ACCESS-3DP PROJECT	2298
A. Muñoz Puche, G. Cañavate Cruzado, J.C. Bañón Guillén, F.J. Melero Muñoz, J. Garrido Lova LITHUANIAN LANGUAGE AND CULTURE COURSE AS A KEY FACTOR IN UKRAINIAN	2304
REFUGEES' INCLUSION J. Pivoriene, O. Merfeldaite, I. Palomo-Domínguez	2304
A BIONIC APPROACH THROUGH EDUCATION - CREATION OF A TRAINING MATERIAL ON 4.0 TECHNOLOGIES, LEADERSHIP AND TALENT PROMOTION IN THE FRAMEWORK OF THE GIST PROJECT A. Muñoz Puche, F.J. Melero Muñoz, J.J. Ortega Gras, C. González González, J. Garrido Lova	2314
WHAT TO PRIORITIZE IN BUILDING ACADEMIC DIGITAL CAPACITY: USING SELFIE TO SUPPORT DIGITAL DEVELOPMENT IN SCHOOLS C. Pulfrey, C. Caneva	2321

USING VARIOUS TEACHING STRATEGIES TO KEEP STUDENTS ENGAGED DURING THE COVID-19 PANDEMIC S.S. Ling	2322
UNIVERSITY-INDUSTRY COOPERATION IN AREA OF ADDITIVE MANUFACTURING: A CASE STUDY M. Ťavodová, M. Dado, M. Vargová, P. Beňo	2329
BIOGAS OBTAINING FROM WASTES GENERATED IN UNIVERSITY CAMPUSES: PRACTICAL CASE STUDY BASED ON TRANSDISCIPLINARY LEARNING M. Gonzalez Alriols, A. Ibarrondo, A. García, A.P. Aravena, H. Otxandategi, E. Onaindia, J.D. Núñez, I. Barrio, M.M. Antxustegi	2336
THE ROLE OF COGNITIVE FLEXIBILITY IN LINGUISTIC AND NUMERIC SKILLS AMONG KINDERGARTEN AND FIRST-GRADE CHILDREN D. Cohen, S. Shaul	2340
EXPLORING THE CONTRIBUTION OF LINGUISTIC, COGNITIVE AND CULTURAL FACTORS IN SCIENCE TEACHING AND KNOWLEDGE BUILDING WITH A FOCUS ON MATHEMATICS AND COMPUTER SCIENCE M. Kritikou, D. Tsolis	2341
IMPLICATIONS OF GENERATIVE DESIGN METHODOLOGY IN DESIGN EDUCATION PROCEDURES D. Medrán, M.M. Espinosa, R. Prádanos Del Pico, M. Domínguez	2349
INTERCULTURAL COMPETENCE THROUGH TRANSFORMATION K. Schneider	2357
DETERMINATION OF THE LEVEL OF READING LITERACY OF PRIMARY SCHOOL PUPILS IN AN INTERNATIONAL CONTEXT M. Žišková	2358
WHAT IS THE EFFECT OF EMOTIONAL ENGAGEMENT AND BULLYING ON ACHIEVEMENT GAP: MULTILEVEL ANALYSIS S. Raiziene, D. Sevalneva, R. Erentaite	2363
HUMAN CHALLENGES SCHOOLS FACE IN THEIR QUEST FOR DIGITAL INTEGRATION AND HOW TO OVERCOME THEM C. Pulfrey, C. Caneva	2364
BUILDING PARTICIPATION IN THE CHILD PROTECTION SYSTEM THROUGH THE PROCESS OF CONSTRUCTION OF A CARE LEAVERS-LED POLICY. FIRST REFLECTIONS FROM THE EUROPEAN CARING PROJECT C.C. Montà	2365
MOODLE DESIGN OF A MANDATORY MASSIVE PHYSICS COURSE FOR AGRONOMIC ENGINEERING DEGREE L. Amy, R. Eyheralde, P. Ferrúa	2371
AMBIENT LEARNING SPACES: CHANCES AND CHALLENGES OF INTERACTIVE KNOWLEDGE MEDIA PLATFORMS FOR SCHOOLS AND MUSEUMS M. Herczeg	2378
GENDER PERSPECTIVE IN A PROGRAMMING COURSE C. Manresa-Yee, J.M. Buades Rubio, A. Oliver, G. Moyà Alcover, S. Ramis, M. Orell	2389
THE ORCA ECOSYSTEM - ADVANCING THE MISSION OF OER TOGETHER THROUGH COMPETENCES IN THE NETWORK A. Niemann, S. Schotemeier, C. Funk	2395
COMBINING CRITICAL THINKING WITH DIGITAL SKILLS IN EUROPEAN CONTEXT: AN EXAMPLE OF PROJECT "PLATO'S EU" B. Ćurko, A. Kovačević, M. Pavlic	2403
THE LEVEL OF KNOWLEDGE OF SECONDARY SCHOOL STUDENTS IN PROVIDING FIRST AID R. Lenková, I. Boržíková, T. Lukáčová	2408
RISK FACTORS OF HEALTH-RELATED BEHAVIOUR OF SLOVAK UNDERGRADUATES AND THE POSSIBILITIES OF APPLYING PREVENTIVE EDUCATIONAL STRATEGIES I. Boržíková, R. Lenková, F. Pajonková	2415
CROSS-CULTURAL AND LINGUISTIC INTERACTION IN THE CONTEXT OF TEACHING FOREIGN LANGUAGES AND MINIMISING STUDENTS' MISTAKES M. Egorova, T. Zapata Ruiz	2425

CHRONICITY AT SCHOOL: FROM BARRIER TO LEARNING RESOURCE G. Cucuzza	2432
COULD THE UNIVERSITIES AND PHILOSOPHY HELP US CREATE A MORE DEMOCRATIC SOCIETY? D. Kováčová, B. Baďurová, V. Strahovnik	2440
ENTREPRENEURSHIP AND PEDAGOGICAL INNOVATION IN THE CLASSROOM THROUGH A SCRUM-BASED EDUCATIONAL METHODOLOGY: A PRACTICAL LEARNING EXPERIENCE IN AN UNDERGRADUATE COURSE IN SPAIN J.V. Tomás-Miquel, A.E. Fotă, P. Rodríguez-Máñez, A. Gajownik	2446
THE ROLE OF LEADERSHIP IN PROMOTING SOCIAL RESPONSIBILITY IN HIGHER EDUCATION A. Albuquerque, S. Fernandes, P. Morais, A. Pereira	2455
MANAGING STRESS IN ONLINE DISSERTATION STUDENTS: A MULTIPLE CASE STUDY OF FACULTY PERCEPTIONS OF LOWERING STUDENTS' AFFECTIVE FILTER L. Bedford, A. Babcock	2465
DO ICT SELF-EFFICACY BELIEFS PREDICT ACTUAL DIGITAL LITERACY? EVIDENCE FROM LITERATURE IN THE SCHOOL CONTEXT T.L.A. Nguyen, A. Habók	2470
LOOKING FOR ALTERNATIVE CONCEPTIONS ABOUT LIGHT IN COLOMBIAN RURAL STUDENTS L.C. Arboleda-Hernandez, C.P. Suarez Rodriguez, D.F. Becerra Rodriguez	2475
USING SOCIAL MEDIA TO IMPROVE STUDENT ENGAGEMENT AND SUCCESS IN A LARGE INTRODUCTORY UNIVERSITY-LEVEL SCIENCE COURSE A. Fujimoto-Strait, R. Guida	2484
KIELIBUUSTI (LANGUAGE BOOST) PROJECT: DEVELOPING BETTER LEARNING POSSIBILITIES OF FINNISH AND SWEDISH FOR INTERNATIONAL EXPERTS. PROJECT GOALS AND DEVELOPMENT PRINCIPLES S. Heinzmann	2485
HARM MINIMIZATION: A TOBACCO REDUCTION FOR YOUTH PROGRAM N. Piquette, K. Haight, O. Awosoga	2486
EDUCATIONAL ASPECTS OF THE PERCEPTION OF BILINGUAL VISUAL LANGUAGE USE AMONG HUNGARIANS IN SLOVAKIA K. Presinszky	2487
THE MULTILINGUAL LINGUISTIC LANDSCAPE AS A MULTIDISCIPLINARY ELEMENT OF THE CURRICULUM K. Presinszky	2493
DEVELOPMENT OF A 3D PRINTED MODEL OF A FULL SIZE HUMAN SKULL FROM A CT SCAN WITHOUT AN IV CONTRAST AGENT: ANATOMY TRAINING SIMULATOR FOR NURSING STUDENTS	2500
K. Budisalich, H. Schroer, C. Tverberg, D. Moeller, G. Maddux, B. Schroer	
ANALYSIS OF THE OPPORTUNITIES FOR OBTAINING NEW KNOWLEDGE FROM ANCIENT MANUSCRIPTS K. Rasheva-Yordanova, I. Dimitrova, G. Dimitrov	2510
3D PRINTED MODELS OF A COLLAPSED/PUNCTURED LUNG AND THE CORRESPONDING HEALED LUNG: DEVELOPMENT AND APPLICATION FOR ADVANCED NURSING STUDENT TRAINING K. Budisalich, C. Gunter, C. Tverberg, D. Moeller, G. Maddux, B. Schroer	2516
SAFETY FROM THE PERSPECTIVE OF UNIVERSITY STUDENTS WITH DISABILITIES A. Hanakova, B. Hudcova, T. Hrudova, K. Krahulcova, K. Kroupova, M. Potmesil, V. Ruzickova, K. Simunkova, G. Spinarova, E. Urbanovska, V. Vachalova	2526
SUPPORTING PARENTS AS PARTNERS IN EDUCATION: MEASURING THE IMPACT OF AN EXPERIENTIAL INTERVENTION PROGRAMME ON VIRTUAL LEARNING ENVIRONMENTS IN POST-PRIMARY SCHOOLS D. Qualter	2533
ACCOUNTABILITY, PREEMPTION AND SCHOOL CHOICE: INTERGOVERNMENTAL TENSIONS AND THE CASE OF FLORIDA C. Herrington	2534
USE OF A VOICE ASSISTANT TO SUPPORT THE DEVELOPMENT OF INFORMATION MANAGEMENT SKILLS G. De la Cruz Martínez, E. Cruz Hernández, S.M. Martínez Ramírez	2539

INTRODUCING THE ENTREPRENEURIAL MINDSET, DELIBERATE PRACTICE IN A RURAL TOURISM CONTEXT: A CASE STUDY D. Wilborne, J. Ludwig, P. Hackbert	2545
DOES STUDENT-CENTERED INSTRUCTION MATTER? INVESTIGATING UNDERGRADUATE STUDENTS' PERCEPTIONS ON PROOF Y.Y. Ko, A. Johnson, M. Rose	2553
SO, YOU WANT TO SET UP A FAB LAB: REALIZATIONS IN RUNNING A MAKER SPACE IN A PHILIPPINE HIGH SCHOOL J. Alcarez	2554
THE SUMMARY STRATEGY AND THE PERFORMANCE OF STUDENTS IN THE SUBJECT OF SCIENTIFIC RESEARCH METHODS J. Flores, R. Ordoñez, D. Anzules	2564
THE SUSTAINABLE DEVELOPMENT OF THE AERONAUTICAL SECTOR FROM A SOCIO-ENVIRONMENTAL APPROACH R. Florencio da Silva, A.D. Torres-Rivera, R. Chavero López, J.O. Escobedo Alva, M.A. Mendoza	2570
R. Florencio da Silva, A.D. Torres-Rivera, R. Chavero Lopez, J.O. Escobedo Alva, M.A. Mendoza Becerril, A.J. Mc Namara Valdes, D. Linares Ramíres	
CULTURAL ACTIVITIES AS A TEACHING METHOD FOR ENVIRONMENT CONSERVATION IN VISTA HERMOSA, MEXICO CITY A.J. Mc Namara Valdes, L.A. Garcia-Serrano, R. Florencio da Silva	2575
ACCESSIBILITY AND SAFETY IN THE CONTEXT OF PERSONS WITH DISABILITIES OR SPECIFIC NEEDS - A MONITORED ISSUE IN RESEARCH CONCEPTS A. Hanakova, B. Hudcova, T. Hrudova, K. Krahulcova, K. Kroupova, M. Potmesil, V. Ruzickova, K. Simunkova, G. Spinarova, E. Urbanovska, V. Vachalova, J. Zvedelikova	2580
SHARING THE LEARNING BY DEVELOPING MODEL IN AN INTERNATIONAL CONTEXT M. Ekström, J. Aalto	2590
MACHINE LEARNING TO EXPLOIT MASSIVE OPEN ONLINE COURSES LEARNING PROCESS DATA J. Toutouh, B. Bossavit	2597
ELEMENTS OF POSITIVE PEDAGOGY, METHODS OF IMPLEMENTATION AND INFLUENCE IN THE EVOLUTION OF PERFORMANCE IN EDUCATION L.M. Popescu (Iacob), VA. Enachescu	2607
INITIAL ASSESSMENT OF THE INFLUENCE OF THE WAR IN UKRAINE ON THE DEVELOPMENT OF PROFESSIONAL EDUCATION OF MILITARY ENGINEERING OFFICERS J. Kompan, J. Jančo, M. Hrnčiar	2612
CHALLENGES FOR THE DEVELOPMENT OF THE MILITARY EDUCATION FOR THE DEPLOYMENT OF DECLARED FORCES IN UN PEACEKEEPING OPERATIONS M. Hrnčiar, J. Kompan	2618
STUDENTS' SELF-ASSESSMENT OF ENTREPRENEURSHIP COMPETENCE IN THE STUDY PROCESS – LATVIAN CASE STUDY A. Slišāne, G. Lāma, A. Oļesika, Z. Rubene	2624
MIND-MAPPING AS A DIDACTIC TOOL IMPLEMENTED IN E-LEARNING M. Piotrowska	2633
OPPORTUNITIES AND CHALLENGES IN THE EDUCATION OF PRISONERS IN THE REPUBLIC OF CROATIA A. Jandrić Nišević	2634
REFLECTIONS ON A COURSE ABOUT RADICAL DISCOURSES AND THE DIGITAL PUBLIC SPHERE AT A SOUTH AFRICAN UNIVERSITY L. Dalvit	2642
LEVEL OF SELECTED ELEMENTS OF COMMUNICATIVE COMPETENCIES AMONG PRIMARY SCHOOL TEACHERS IN THE CZECH REPUBLIC R. Kárníková, J. Miková	2643
ADAPTATION OF CRISIS MANAGEMENT STUDY PROGRAM TO THE NEEDS OF IMPROVING THE QUALITY OF LIFE OF THE POPULATION S. Strelcová, A. Kelíšek, J. Kubás, P. Prievozník	2652
FROM PROMOTION TO PERSUASION: SUPPORT AS ESSENTIAL NEXT STEP FOR ESTABLISHING OPEN EDUCATIONAL RESOURCES AT UNIVERSITIES M. Kopp, N. Linschinger, K. Neuböck	2659

INTERACTIVE OPEN-SOURCE SOFTWARE TOOL FOR TEACHING AND LEARNING CONTROL SYSTEMS DESIGN H. Meneses Navarro, J. Louzao, O. Arrieta, R. Vilanova	2669
OPPORTUNITIES FOR THE DEVELOPMENT OF COMMUNICATIVE COMPETENCIES OF ELEMENTARY SCHOOLS TEACHERS IN THE CZECH REPUBLIC R. Kárníková, M. Fasnerová	2679
HYBRID/VIRTUAL PHYSICAL COMPUTING PROTOTYPING HANDS-ON LABORATORY DURING COVID-19 PANDEMIC P. Perego, P. Bobrova	2688
THE FOOD SYSTEM FACING THE CHALLENGE OF CLIMATE CHANGE: A ROLE PLAY D. Pereira, J. Urquijo-Reguera, M.T. Gómez-Villarino, P. Páez-Maldonado, J. López-Santiago, C.G. Hernández Díaz-Ambrona, A.I. García-García	2696
OPENING A NEW DISCOURSE FOR ENTREPRENEURSHIP EDUCATION: MOVING BEYOND SQUARE PEGS IN ROUND HOLES C. Donaldson, J. Villagrasa	2703
PRACTICAL INSIGHTS FOR ASSESSING STUDENT PROGRESS IN THE ENTREPRENEURIAL CLASSROOM C. Donaldson, J. Villagrasa, F. Sanchez	2711
LEARNING THROUGH FASHION ARCHIVES: THE CASE OF THE GIANFRANCO FERRÉ ARCHIVE V. Cognini, F. Vacca	2718
STUDENT SATISFACTION WITH VIRTUAL TOOLS AT UNIVERSITY M. Lara, J. Flores, S. van Der Meer, I. Bezemer	2726
3D PRINTING FOR THE OPTIMISATION OF RESOURCES IN TEACHING PRACTICES IN THE PHYSICAL OPTICS LABORATORY C. Vázquez Ferri, J. Espinosa Tomás, J. Pérez Rodríguez, E. Perales Romero, B. Domenech Amigot, C.	2727
Hernádez Poveda SPECIAL CITATION INDEX FOR EVALUATION OF SCIENTIFIC WORK TOPICALITY IN THE CONTEXT OF KNOWLEDGE TRANSFER	2728
V. L'vov, Y. Kikhaiev, I. Novikova, O. Bediukh PERSONALIZED AND SELF REGULATED LEARNING AND ONTOLOGY-BASED KNOWLEDGE MODELS IN THE CLOUD T. Ivanova	2737
TEACHER'S PROFESSIONAL DEVELOPMENT – CURRENT TRENDS AND CHALLENGES FOR TEACHERS IN SLOVAKIA J. Ferencova	2747
ACTION RESEARCH – A METHOD OF SUPPORTING CHANGE IN SCHOOLS? J. Ferencova	2755
SOCIOEMOTIONAL COMPETENCES DEVELOPMENT IN ARCHITECTURE DEGREE & MASTER STUDENTS IN SPAIN S. Domínguez Gil, P. Miguel-Sin Monge, A. San José Cabrero, G. Ramírez Pacheco	2764
FEEDBACK ON A ROBOTIC PROJECT FOR COMPETENCY-BASED LEARNING IN FRENCH UNIVERSITY BACHELOR OF TECHNOLOGY N. Lardenois, J. Chevrie, L. Vermeiren	2769
WIDENING THE HIGHER EDUCATION COMMUNITY: EXPANDING AND DIGITALLY ENHANCING CUSTOMER JOURNEYS FOR SMALLER-SIZED BUSINESSES THROUGH MASTERS PROJECTS AND THEN THROUGH PRESENTATIONS AT CO-WORKING COMMUNITY SPACES Y.H. Tsai, M. Macintyre, S. Street	2778
THE STATE OF KNOWLEDGE OF TEACHERS AND EDUCATORS IN PRIMARY AND SECONDARY EDUCATION ON CYBER THREATS CHALLENGING STUDENTS ON A DAILY BASIS - PROPOSAL OF PREVENTION AND TRAINING AREAS D. Siemieniecka, K. Majewska	2781
THE DISABLED CHILDREN'S PERCEPTION OF THEIR PARTICULAR HEALTH CONDITION: TRUTH OR CHALLENGE I.A. Maruşca	2790
LESSONS LEARNED FROM TEACHING IN THE PANDEMIC: IMPACTS, RESPONSES AND WHAT WORKED M. Carroll, F. Constantinou	2795

NON-STANDARD (PROSPECTIVE?) PLACES TO LEARN, I.E. SUPPORTING SCHOOLS ACTIVITIES WITH LOCAL ENVIRONMENT RESOURCES A. Kulpa-Puczyńska	2796
LESSONS LEARNT FROM HAVING TO ADAPT TO THE COVID PANDEMIC IN A HIGHER EDUCATION INSTITUTION IN THE UK A. Battaglia	2797
GAME DESIGN FOR TEACHING, LEARNING AND ASSESSMENT S. Bezzina, A. Dingli, A. Pfeiffer, T. Wernbacher	2805
PERCEPTIONS BY TEACHERS-BEGINNERS OF THEIR PREPARATIONFOR PEDAGOGICAL WORK AT PRIMARY SCHOOL DURING STUDY AT HIGH EDUCATION ESTABLISHMENT IN LATVIA J. Davidova, S. Zariņa	2809
ONLINE BIBLIOTHERAPY PUBLICATIONS IN BULGARIA: A TRAINING ELEMENT IN THE PERIOD OF GLOBAL PANDEMIC S. Eftimova	2816
DESIGNING ONLINE ASSESSMENTS RELIABLY ROBUST TO CHEATING FROM QUESTION BANKS R. Pierce, M. Brenneman	2821
THE INFLUENCE OF 21ST CENTURY SKILLS ON THE TRANSITION TO HIGHER EDUCATION K. Pap, M. Baars	2822
IMPLEMENTING COMPUTATIONAL THINKING MODULES: PRE-UNIVERSITY STUDENTS IN REMOTE LEARNING S.L. Ong, J.P.W. Ling, W.L. Chang, N. Kamarudin	2828
BACK TO THE DRAWING BOARD. THE CHOREOGRAPHY BEHIND RETURNING TO THE PHYSICAL ARCHITECTURAL DESIGN STUDIO S. Bors, L. Patachi	2838
THE PHYSICAL EXAM IN A TELEMEDICINE SPHERE: AN ESSENTIAL BUT UNFAMILIAR SKILL C. Tamargo, G. Berkenblit, A. Apfel, J. Luckin, B. Garibaldi	2845
HOW TO CREATE DIGITAL XML-ANNOTATED GLOSSARIES IN CLASS? A MULTIMODAL APPROACH TO TEACHING SPECIALIZED LANGUAGES ACROSS ALL LEVELS OF EDUCATION S. Araújo, M. Aguiar	2846
GLOBAL WOMEN'S BREAKFAST AS AN OPPORTUNITY TO CREATE AN INTERNATIONAL SCIENTIFIC COLLABORATION NETWORK M.J. Ramalhosa, C. Soares, O. Matos Freitas, S. Teixeira, V. Cruz Fernandes, C. Delerue-Matos	2854
INTERNATIONAL YEAR OF THE PERIODIC TABLE: CREATING AWARENESS OF THE CENTRALITY OF CHEMISTRY AND ITS ROLE IN SOLVING PROBLEMS OF HUMANITY FROM A PERSPECTIVE OF SUSTAINABLE DEVELOPMENT	2862
C. Soares, V. Cruz Fernandes, S. Teixeira, O. Matos Freitas, M. J. Ramalhosa, C. Delerue-Matos	
SUSTAINABLE EDUCATION FOR FUTURE GENERATIONS M. Boras	2868
DIGITAL TRANSFORMATION OF ADULT EDUCATION IN LATVIA: LESSONS LEARNT DURING THE COVID-19 PANDEMIC 1. Jekabsone	2872
ASSESSING THE STUDENTS' PROSPECTIVE PERCEPTIONS OF THE FINAL MASTER PROJECT IN ACTUARIAL SCIENCE M.C. Mayorga-Toledano, E. Trigo-Martínez, A. Fernández-Morales	2877
THE IMPLEMENTATION OF AN OPEN-SOURCE ERP ONLINE SOLUTION TO SUPPORT LABORATORY CLASSES AND STUDENTS ASSESSMENT IN HIGHER EDUCATION DURING COVID-19 LOCKDOWN C. Batista, C. Alves	2883
RETRIEVAL-BASED LEARNING AS A STRATEGY TO PROMOTE STUDENTS' CONCEPTUAL LEARNING ABOUT THE PRINCIPLE OF CONSERVATION OF ENERGY BY TRANSCODING OF AN ARTISTIC SIGN INTO A SCIENTIFIC CONCEPT M. Barros, C.E. Laburú, Y.B. Santos, J.P. Ribeiro	2892
THE USE OF PASCAL AS TEACHING TOOL FOR PROTEIN ENGINEERING J. Sainz Pérez, M. Medina O'Donnell, F.J. Reyes Zurita	2897

PERCEPTION OF THE CONCEPT OF 'QUALITY TEACHING' AMONG TEACHERS TAKING PART IN A TEACHING OBSERVATION PROJECT: INSIGHTS AND REFLECTIONS M. Milani	2901
PEDAGOGICAL STRATEGIES IN DISTANCE EDUCATION FOR CYBERSENIOR KNOWLEDGE MULTIPLIERS: AN EXPERIMENT DURING COVID-19 T. Grande, L. Rocha Machado, B. Slodkowski, P. Behar	2906
DEVELOPING MATHEMATICAL LITERACY IN LEISURE-BASED EDUCATION FROM THE PERSPECTIVE OF PROSPECTIVE TEACHERS J. Laitochová, M. Uhlířová, K. Večeřová	2915
INTERACTION BETWEEN EDUCATION AND THE BUSINESS IN BULGARIA – MODELS OF SUCCESSFUL COOPERATION K. Mincheva, D. Mladenova, H. Bogova, A. Tsvetkova	2921
PROJECT MANAGERS COACH THEIR TEAMS IN PERFORMANCE AND CHANGEABILITY T. Tallgren, T. Uusitalo	2926
LESSON LEARNED FROM THE DEVELOPMENT AND IMPLEMENTATION OF INTERACTIVE EDUCATIONAL MATERIAL IN THE 3RD GRADE'S HISTORY LESSON A. Noula, C. Pierrakeas	2934
DEVISING A STANDARDISED, NATIONAL MANDATORY ONLINE TEACHING AND ASSESSMENT PROGRAMME FOR CLINICAL NURSE EDUCATORS (PRECEPTORS/MENTORS): THE BENEFITS, CHALLENGES AND PROJECT BLUE PRINT DEVELOPED FROM THE STAKEHOLDERS EVALUATION E. McSharry, G. George, E. Fallon, B. Bradley, C. Rochford, F. Hunt	2941
CONSIDERATIONS ABOUT THE FINAL DEGREE PROJECT (FDP) F.J. Reyes Zurita, J. Sainz Pérez, M. Medina O'Donnell	2943
A PERFORMANCE EVALUATION OF PROJECT-BASED LEARNING IN A HIGHER EDUCATION SCIENCE COURSE M. Ibáñez, M.E. González-Benito, M. Pirredda, S. Mira, C. Martín	2944
FROM THEORY TO PRACTICE: THE USE OF FLIPPED CLASSROOMS TO CREATE IMMERSIVE ENGLISH CLASSES FOR A1 LEVEL STUDENTS IN A UNIVERSITY IN ECUADOR E. Vargas-Caicedo, A. Guaman-Tumbaco	2945
PERSONAL DATA PROTECTION APPLICABLE TO AN E-LEARNING SYSTEM USING AN INDIVIDUAL PROFILE Y. Anastasova, S. Toncheva-Pencheva	2952
THE POWER OF LEARNING: PAST, PRESENT, AND FUTURE Y. Guan-Raczkowski	2958
MOTHER TONGUE INTERFERENCE ON ENGLISH SPEAKING SKILLS: A CASE STUDY ON SCHOOL STUDENTS IN INDIA R.Z. Hauzel, T. Pattnaik, S. Nethi	2959
PROFESSIONAL COMPETENCES OF TEACHERS OF SECOND CHANCE EDUCATION AND THEIR DEVELOPMENT V. Sutakova	2967
PROJECT-BASED EDUCATION IN PRIMARY SCHOOL WITH THE USE OF VIRTUAL AND AUGMENTED REALITY K. Dimitrova	2975
SPECIFICATION OF EDUCATION PROCESS OF ADULT LEARNERS IN SECOND CHANCE EDUCATION IN SLOVAKIA V. Sutakova	2984
DEVELOPMENT OF KEY COMPETENCIES THROUGH GAMES, TEAM TASKS AND PROJECT WORK IN PRIMARY SCHOOL K. Dimitrova, R. Papancheva	2990
THE DESIGN, VALIDATION AND USE OF CLASSROOM ASSESSMENTS FOR MULTIDIMENSIONAL SCIENCE PROFICIENCY J. Pellegrino	2999
ENHANCING STUDENTS' ONLINE READING COMPREHENSION THROUGH COLLABORATION AND READING AS A PROBLEM SOLVING PROCESS I. Gaki, I. Spantidakis, A. Mouzaki	3000

COMPETENCY IN THE DOMINICAN REPUBLIC AND THE UNITED STATES C. Whann, S. Winn, L. Calix, M. Banks, L. Camacho, E. Moquete	3006
INNOVATIVE DOCKERIZED WEBSITE BUILDER P. Bakonyi, M. Vančo, I. Kotuliak	3013
A CASE STUDY OF SERIOUS GAMES WITH AUGMENTED REALITY FOR LEARNING FACILITATING IN CHEMISTRY K. Nanon, M. Vinnikov, M. Lee	3017
DEVELOPMENT OF ENTREPRENEURSHIP SKILLS IN HIGHER EDUCATION <i>R. Poceviciene</i>	3027
LET'S STOP MOTIVATING - LET'S HELP DISCOVER THE MEANING OF LEARNING R. Poceviciene	3035
INTERPERSONAL MUSICAL PERCEPTION OF YOUNGER SCHOOL-AGE CHILDREN P. Kusý, I. Šuhajdová	3040
MANAGING THE PROCEDURES OF A HIGHER EDUCATION INSTITUTION USING GOOGLE WORKSPACE M. Valverde Ibáñez, J. de la Casa Cárdenas, M. Gómez González, F.J. Iglesias Godino, A.B. López García, D. Martínez Muñoz, F. Suarez Guerra	3051
THE USE OF MUSIC THERAPY AND MUSIC PHILETICS IN SLOVAK KINDERGARTENS P. Kusý	3062
INTRODUCING PROJECT-BASED LEARNING AND REAL-WORLD METHODOLOGIES AND TOOLS EARLIER IN THE SOFTWARE DEVELOPMENT CURRICULUM D. Weaver, T. Bunch	3071
PROGRESS OF THE INCLUSIVE SCHOOLING AGENDA: WHAT THE CRPD COMMITTEE'S CONCLUDING OBSERVATIONS SAY M. Winzer, K. Mazurek	3079
EFFECTS OF A STEAM-6E AR PROGRAMMING DESIGN COURSE ON ELEVATING STUDENTS' LEARNING MOTIVATION AND COMPUTATIONAL THINKING: A CASE STUDY OF AR GAMES IN DIGITAL EXHIBITIONS Y.C. Tsai	3084
RELATIONSHIP BETWEEN THE INDICATORS OF THE HIGHER EDUCATION QUALITY ASSURANCE SYSTEM AND THE ISO 9001:2015 QUALITY MANAGEMENT SYSTEM: A LITERATURE REVIEW A. Mena Vásquez, C. Devece Carañana	3091
ONLINE TEST PRACTICES: INSIGHTS INTO THE USE OF MOODLE QUIZZES IN A BUSINESS SCHOOL CONTEXT DURING A PANDEMIC V. Fester	3102
SELF-REFLECTION OF THE CONCEPT OF TEACHING: A VIEW OF MANAGERIAL SKILLS OF UNIVERSITY TEACHERS K. Němejc, K. Tomšíková, J. Šedivý	3111
LESS MASSIVE BUT MORE EFFICIENT ONLINE LEARNING FOR EFL TEACHERS A. Kalizhanova, T. Shelestova	3117
PREPARING FOR UNIVERSITY STUDIES IN FINLAND: STARTING FINNISH LANGUAGE STUDIES ALREADY IN YOUR HOME COUNTRY N. Helkiö	3123
APPLYING COGNITIVE LOAD THEORY AND THE VIRTUAL MEDICAL TECHNOLOGY ACCEPTANCE MODEL (VMEDTAAM) TO THE DESIGN AND DEVELOPMENT OF A VIRTUAL REALITY ANATOMY MEDICAL CLASSROOM M.A.A. Mohd Hamizi, N.A. Mohamed Mokmin, U.H. Ariffin	3124
WOLFRAM CLOUD AS AN INTERACTIVE TOOL TO SUPPORT SECONDARY SCHOOL TEACHING D. Nocar, J. Vaško, T. Zdráhal	3133
CYBERBULLYING AS ONE OF THE POSSIBLE RISKS OF DISTANCE LEARNING H. Mičková, J. Miková, Z. Nováková, J. Šmída	3138
EDUCATOR'S PERCEPTION OF USING AUGMENTED REALITY TO CREATE STEM LEARNING MATERIAL U.H. Ariffin, N.A. Mohamed Mokmin, M.A.A. Mohd Hamizi	3144
3D AUDIO-TACTILE MAPS AND MODELS FOR PEOPLE WITH VISUAL IMPAIRMENT V. Ruzickova, A. Vondrakova, V. Vachalova, G. Spinarova, K. Kroupova	3151

MANAGEMENT OF SMART CITY SERVICES FROM THE PERSPECTIVE OF QUADRUPLE HELIX L. Walletzký, L. Nencková, Z. Schwarzová	3158
INTERNATIONAL SOFTWARE DEVELOPMENT PROJECT STUDY MODULE IMPLEMENTED IN VIRTUAL TEAMS IN COOPERATION WITH WORKING LIFE N. Sarrasin, T. Lintilä, N. Debons	3164
AIRLAB – A HANDS-ON EXPERIENCE ON THE MEASUREMENT OF ATMOSPHERIC PARTICULATE MATTER FOR UPPER SECONDARY STUDENTS S. Hemmer, L. Conti, L. Mobilia	3172
FACTORS AFFECTING SCIENCE LEARNING ASSESSMENT: THE TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY CASE C. Santziakki, Z. C. Zacharia, N. Papadouris, CHR. TH. Nicolaou	3179
THE ROLE OF CULTURAL MEMORY FOR THE CREATION OF AN INTERACTIVE EDUCATIONAL ENVIRONMENT D. Mladenova, K. Planska-Simeonova, A. Tsvetkova, S. Dimitrova	3186
NON-PROFIT MARKETING LESSON TO DEVELOP AND REINFORCE APPLIED PROFESSIONAL SKILLS IN BOTH STUDENTS AND TEACHERS N. Sarrasin, M. Zumstein, N. Debons	3191
USING SOCIAL NETWORKING MEDIA TO DESIGN AN ONLINE COURSE – A CASE STUDY D. Jaksic	3198
BEST OF BOTH WORLDS: HOW CAN WE USEFULLY COMBINE ONLINE AND CLASSROOM TEACHING IN THE CONTEXT OF PROJECT-BASED LEARNING WITHIN THE FRAMEWORK OF INDUSTRY-UNIVERSITY COOPERATION? R. Groβ, K. Freudenthaler, T. Ulrich	3205
MINORITY NAME MANAGEMENT IN A SLOVAK-HUNGARIAN BILINGUAL ENVIRONMENT J. Bauko	3214
TEACHING OF THRESHOLD AND COMPLEX CONCEPTS IN MECHATRONICS E. Mäkiö, J.R. de Oliveira Leo, M. Tareen, F. Freeha Azmat, B. Ahmad	3215
TRANSITION FROM FACE-TO-FACE LEARNING TO REMOTE TEACHING –FACULTY PERSPECTIVE	3224
V. Haralanova, S. Khoshaba	
POPULARISATION OF LINGUISTICS IN UNIVERSITY EDUCATION J. Bauko	3234
TEACHERS' REASONING IN DIFFERENT TOPICS OF SCHOOL MATHEMATICS J. Michal, J. Novotná, M. Slavíčková	3240
BLENDED LEARNING IN TERTIARY EDUCATION IN THE CZECH REPUBLIC – VISIONS FOR THE FUTURE H. Pavlisova	3244
EDISON (EXPERIENCE DEMOCRACY IN SCHOOLS NOW) - LOCAL DEMOCRATIC SCHOOL DEVELOPMENT STRENGTHENING DEMOCRATIC COMPETENCES AND REALIZING INNOVATIONS AT SCHOOLS IN KOSOVO THROUGH FOLLOWING A PARTICIPATORY-DEMOCRATIC SCHOOL DEVELOPMENT APPROACH M. Retzl, V. Sylhasi	3253
MAXIMISING TEAMWORK ENGAGEMENT BENEFITS VIA OPTIMISING TEAM MEMBER PERSONALITY MATCH N. Forman, J. Udvaros, K. Szabó, L. Szabó	3261
CAMPUS PRAKTIKUM: HOW TO BRING THE UPV CLOSER TO THE FUTURE STUDENTS IN AN IMMERSIVE WAY E. Gimenez-Carbo, A. Veloso Padilla, M.A. Torralba Navarro, M.E. Gómez-Martín	3268
EXPERIENCES AND PERCEPTIONS OF PORTUGUESE TEACHERS IN THE EARLY MONTHS OF THE COVID-19 PANDEMIC: REINTERPRETING THE PROFESSION D. Mesquita, I. Cabral, J.M. Alves	3275
THE IMPORTANCE OF TEACHING DRONES IN LOGISTICS J. Udvaros, N. Forman, L. Szabó, K. Szabó	3286
FORMATION OF RESEARCH COMPETENCIES OF MASTERS' STUDENTS G. Podnebesova, K. Zvvagin, L. Yuzdova, M. Kulakovich, I. Balandina, T. Moskvitina	3291

METHODOLOGY FOR TEACHING FUNDAMENTALS OF COMPUTER PROGRAMMING FOR ENGINEERING AND HIGH SCHOOL STUDENTS NON-SPECIALISTS IN COMPUTER SCIENCE J.R. Pérez Beltrán, R.P. Ñeco García, N.M. García Aracil, J.M. Catalán Orts, I. Fabra Ramón	3296
BLENDED LEARNING ON TWITTER SOCIAL NETWORK: ONLINE, PERSONALISED AND FLIPPED LEARNING	3305
T. Balcarova, L. Pilařová	
CONTRIBUTION OF PEER-TO-PEER EVALUATION IN COLLABORATIVE EDUCATION BY PROJECTS DEVELOPED IN THE FIELD OF UNIVERSITY TRAINING OF ENGINEERS I. Gil, I. Domínguez, M.M. Espinosa, R. Prádanos Del Pico, M. Domínguez	3313
A ROCKY OUTCROP IN THE LABORATORY: FLIPPED CLASSROOM FOR LEARNING GEOMECHANICAL STATIONS R. García-Luna, J. González Galindo, J.G. Gutierrez-Ch, R. Jimenez Rodriguez, L. Jordá Bordehore, C. López Fernández, Á. López-Puigcerver Soler, J. Page Antequera, L.A. Pando González, S. Senent	3320
Domínguez ORGANIZATIONAL COMMITMENT IN PORTUGUESE HIGHER EDUCATION TEACHERS	3327
M. Ribeiro, C. Antão, V. Lebres, A. Fernandes	
EXPERIENCES IN THE USE OF WIKIS AS A COLLABORATIVE TOOL FOR TEACHING COMPUTER SCIENCE J.R. Pérez Beltrán, R.P. Ñeco García	3335
DEVELOPING A CHALLENGE: THE DESIGN OF GREEN BUS STOPS AS A TOOL FOR INTERNATIONAL AND INTERDISDIPLINARY COLLABORATION IN FACE-TO-FACE SUMMER SCHOOLS	3341
D. Gawryluk, M.A. Flórez de la Colina, P.C. Izquierdo Gracia, D. Jankauskienė, D. A. Krawczyk, E. Brezgytė	
ASSESSING PUPILS' ACHIEVEMENTS IN TECHNOLOGY EDUCATION: PERCEPTIONS OF PUPILS AND TEACHERS	3352
B. Zygaitiene, A. Guoba, I. Kepalienė MODELING THE EDUCATION OF THE FUTURE WITH THE HELP OF ROBOTIC	2260
PROCESS AUTOMATION M.I. Vulpe, V.A. Enăchescu	3360
A MULTIDIMENSIONAL VIEW OF JOB SATISFACTION IN A PORTUGUESE PUBLIC HIGHER EDUCATION INSTITUTION M. Ribeiro, C. Antão, V. Lebres, A. Fernandes	3366
MODELS FOR CREATING VISUAL CULTURE IN THE SPHERE OF HIGHER EDUCATION D. Mladenova, E. Zdravkova-Velichkova, K. Boyanov	3376
USE OF ONLINE QUESTIONNAIRE TOOLS AND THEIR CORRELATION WITH THE EVALUATION OF DENTISTRY STUDENTS	3381
L.A. Moreno-López, A. Domínguez-Gordillo, R. Cerero-Lapiedra, L. Hernando-Calzado, M. Muñoz-Espina, G. Esparza-Gómez	
EXPLORING THE USE OF MACHINE LEARNING TO IMPROVE STUDENT ENGAGEMENT AND RETENTION I. Ogbuchi, E. Kiely, C. Quigley, D. McGinty	3385
DIFFERENCES IN MOTOR ABILITIES OF PRESCHOOL CHILDREN CONCERNING THEIR ADDITIONAL ENGAGMENT IN SPORT ACTIVITIES J. Alić, V. Valjan Vukić, D. Kuna	3391
APPLICATION OF "FLIPPED LEARNING" METHODOLOGY IN CHEMICAL ENGINEERING USING YOUTUBE AS TEACHING TOOL M. Moya, M.T. Ocaña, I. Romero, F. Espínola, C. Cara	3398
A CONSTRUCTIVIST APPROACH IN THE PROCESS OF LEARNING MECHATRONICS D. Fait, V. Mašek, R. Čermák	3408
STUDENT PREFERENCES WITH GAMIFICATION SYSTEMS IN EDUCATION IN DENTISTRY: IMMEDIATE VERSUS DEFERRED ACTIVITIES	3414
A. Dominguez-Gordillo, L.A. Moreno-López, G. Esparza-Gómez, E. Blanco-Malanda, M. Esparrago- Diaz, R. Cerero-Lapiedra	
BLENDED LEARNING AS A NEW METHODOLOGY FOR SHARING KNOWLEDGE AND COLLABORATING TO CREATE A SMALL URBAN OBJECT P.C. Izquierdo Gracia, M.A. Flórez de la Colina, D. Gawryluk, K. Rawski, W. Matys, J.A. Capitan, I. Rach, D. A. Krawsczyk, D. Jankauskiana, V. Vajčokauskiana, I. Kuklys	3415

THE DESIGN THINKING MODEL APPLIED TO AN ARTISTIC PROJECT IN THE CONTEXT OF EUROPEAN UNIVERSITIES P. Macedo, L. Recnik, C. Munk	3424
THE INTERNET: A NEW RENAISSANCE FOR THE UNIVERSITY M.A. Garito	3430
ONLINE ASSESSMENT CHALLENGES IN ENGINEERING GRAPHICS AND DESIGN C.S. Masoabi	3431
RECOGNIZING SOCIAL DISADVANTAGE IN THE PROCESS OF ADDRESSING EDUCATIONAL INEQUALITIES Z. Němec, L. Felcmanová	3437
MAJOR ROLES OF SCHOOL COUNSELLING PROFESSIONALS IN PROVIDING SUPPORT FOR STUDENTS FROM SOCIALLY DISADVANTAGED BACKGROUNDS Z. Němec, A. Kubíčková	3444
TECHNOLOGICAL WATCH IN MANUFACTURING INDUSTRY: IDENTIFYING TRAINING NECESSITIES J.J. Ortega Gras, J. Garrido Lova, B. Puche García, O. Olivier Garnier, M. Daddiza	3451
THE COMPETENCY-BASED APPROACH IN THE STUDY OF THE SUBJECT 'TECHNOLOGY' - A COMPARISON OF THE CASES OF LITHUANIA AND LATVIA A. Strode, B. Zygaitiene	3452
SELF-ADVOCACY AMONG COLLEGE STUDENTS WITH AND WITHOUT LEARNING DISABILITIES: THE CONTRIBUTION OF ACADEMIC SELF-EFFICACY AND SUPPORT P. Shavit, R. Michael	3461
EVOLUTION OF STUDENT APPROACH TO LEARNING IN A DEGREE LEVEL SUBJECT N. Andrés-Colás, M. Leiva-Brondo	3462
MACHINE LEARNING MODEL USAGE TO ANALYZE MOTIVATION AND PREDICT STUDENTS' PERFORMANCE DURING COVID-19 IN HIGHER EDUCATION A. Zabolotskikh, T. Dugina	3471
THE ROLE OF UNIVERSITIES IN SUPPORTING THE DEVELOPMENT OF COMPETENCES 4.0 THROUGH UNIVERSITY-BUSINESS COLLABORATION P. Poszytek, J. Fila, M. Jezowski	3479
ASSESSMENT OF ALGORITHMIC THINKING OF SLOVAK AND HUNGARIAN SECONDARY SCHOOL STUDENTS Š. Gubo, L. Végh	3484
PERCEPTION OF SMART CITY IDEA IN SMALLER MUNICIPALITIES AND ITS IMPACT ON MULTIDISCIPLINARY EDUCATION Z. Schwarzová, L. Walletzký	3494
THE NEED TO ENHANCE INTERNATIONAL BLENDED MOBILITY IN SOUTH ASIA HIGHER EDUCATION: THE CASE OF MALAYSIA, INDONESIA, BANGLADESH, AND VIETNAM BEFORE AND DURING THE OUTBREAK OF COVID-19 I. Juknyte-Petreikiene, N. Gudelienė, R. Valutytė, I. Žalėnienė, C.Z. Lamagna, F. Hassan	3500
A COMPARATIVE STUDY OF UNDERGRADUATE STUDENTS' ATTITUDES TOWARDS MATHEMATICS, ITS LEARNING AND TEACHING G. Pranaityté, B. Narkevičienė	3510
COMPREHENSION MONITORING ACROSS LANGUAGES – DOES FEEDBACK WORK? L. Temelman-Yogev, A. Prior, T. Katzir	3511
REVIVING LEGACY LAB COURSE EXPERIMENTS WITH INEXPENSIVE COMMODITY HARDWARE AND A STATE-OF-THE-ART DATA ANALYSIS WORKFLOW – A CASE REPORT C. Mayer	3512
EXECUTIVE FUNCTIONS AND READING COMPREHENSION IN ADULTS WITH ADHD V. Markovich, T. Katzir, E. Tirosh	3513
COLLABORATIVE LEARNING AND TECHNIQUES FOR ENCOURAGING ACTIVE PARTICIPATION IN THE CLASSROOM: AN EXPERIENCE OF UNIVERSITY TEACHING INNOVATION IN THE PERIOD 2010-2020 A. Martinez Serrano	3514
COMPARISON OF STUDENT'S APPROACH TO LEARNING IN TWO SUBJECTS OF BIOTECNOLOGY DEGREE PER STUDENT BASIS M. Laiya Brondo, C. Estavas, I. Blanca, I. Cañiraras	3520

INTERDISCIPLINARY INVESTIGATION OF THE IMPACT OF A BEHAVIORAL INTERVENTION ON THE TOTAL DISTANCE COVERED IN SMALL-SIDED SOCCER GAMES	3526
R.M. Pop, V.T. Grosu, M.N. Ordean, A.S. Rusu	
THE EFFECTIVENESS OF TEACHING AIDS FOR MATHEMATICS TEACHING THROUGH THE EYES OF PROSPECTIVE TEACHERS R. Dofková, J. Wossala, V. Scheichenostová	3535
A STUDY OF COGNITIVE ABILITIES IN THAI CHILDREN P. Visessuvanapoom, J. Wintachai	3541
THE IMPLEMENTATION OF THE CAPS FOR SEVERE INTELLECTUAL DISABLED LEARNERS – A SUCCESS STORY? H. Louw, J. Rens	3548
AN INTEGRATIVE REVIEW ON THE EXPERIENCES OF INTEGRATION OF QUALITY ASSURANCE SYSTEMS IN UNIVERSITIES L. Mion	3549
THINKING THE FUTURE IN THE PRESENT - THE WAY TO A MORE COMPETITIVE AND DIGITAL INDUSTRY A. Fabre, S. Pelayo	3560
ENSURE THE CONTINUITY OF INTERNATIONALIZATION AND AN ON-GOING DEVELOPMENT OF GLOBAL CITIZENSHIP COMPETENCIES IN A DUTCH TAUGHT HEALTH CARE BACHELOR G. Foendoe Aubel	3565
SOCIAL INEQUALITIES THAT AFFECT TRANSITION PROCESSES FROM GRADE 7 TO GRADE 8 WITHIN AN INCLUSIVE SOUTH AFRICAN EDUCATION SYSTEM P. Engelbrecht, J. Rens, H. Louw	3570
VIEWS OF INCLUSION ACROSS TIME AND SPACE: FIVE YEARS OF PERSPECTIVES FROM UNIVERSITY TUTORS ON ACCESSIBILITY AND INCLUSION K. Lister, V.K. Pearson, E. McPherson, A.M. Gallen	3571
THE EFFECT OF GOVERNMENT SUBSIDY ON TECHNICAL SECONDARY SCHOOLS' CURRICULUM DELIVERY IN SOUTH AFRICA C. Mphojane	3581
APPLICATION OF GAMIFICATION ELEMENTS IN UNIVERSITY EDUCATION TO IMPROVE THE LEARNING PROCESS C. Goldmann, R. Woll	3582
ICT IN WORK WITH CHILDREN WITH DEVELOPMENTAL DISORDERS IN PRIMARY AND PRE-PRIMARY EDUCATION V. Gabal'ová, V. Stoffová, J. Kočišová	3591
NEW TRENDS AND EXPERIENCES OF SUPPLEMENTARY EDUCATION H. Moisander, M. Tanskanen	3599
RETHINKING SCHOOL BUSINESS PARTNERSHIPS TO DRIVE INNOVATION AND TEAM LEADERSHIP IN PUBLIC SCHOOLS AMID THE NEW NORMAL: A CASE OF SOUTH AFRICAN PUBLIC SCHOOLS IN LIMPOPO PROVINCE M. Lamola	3603
IDENTIFYING THE CHALLENGES OF COMMUNICATION WITHIN VIRTUAL TEAMWORK C. Goldmann, A. Wolter, R. Woll	3609
THE STUDY OF INTERMEDIAL FEATURES IN LITERATURE L. Lutas	3616
METHODOLOGICAL CHALLENGES IN PRACTICE-ORIENTED RESEARCH: CLOSING THE GAP BETWEEN EDUCATIONAL RESEARCH AND TEACHING PRACTICE M. Utterberg Modén, M. Tallvid, J. Lundin, B. Lindström	3623
TEACHING IN THE TIMES OF PANDEMIC M. Tomovic, C. Tomovic	3624
FACE-TO-FACE AND DISTANCE FORM OF PROGRAMMING TEACHING V. Gabal'ová, V. Stoffová, H.I. Oppenbergerová	3629
BULLYING PREVENTION IN SCHOOLS I. Ďuvica V. Šaltés V. Adamová	3638

THE IMPORTANCE OF SOCIAL-EMOTIONAL COMPETENCE FOR FIRST-YEAR TEACHERS' PROFESSIONAL DEVELOPMENT T. Kazarnovski	3645
HOW ARE STUDENTS ENGAGING IN DIFFERENT TYPES OF ONLINE DISCUSSION BOARDS? C. Vallis, C. Prieto Alvarez, N. Arthars	3651
MOTIVATION AND STUDENTS' GRADES IN HYBRID (IN-PERSON AND ONLINE) TRAINING	3658
I. Getova, N. Yanev, Y. Anastasova, M. Trifonova	
A TECHNOLOGICAL INTERVENTION FOR PROMOTING EYE CONTACT AMONG BOYS WITH AUTISM SPECTRUM DISORDER: CAN METACOGNITIVE SKILLS MAKE A DIFFERENCE?	3663
O. Tova, A. Shamir, S. Eden, S. Horovitz, N. Munits, M. Amon	
REPLICATION ON COGNITIVE LOAD DURING FIRST CONTACT WITH MIXED REALITY USING HEAD-MOUNTED DISPLAYS R. Kockord, O. Bodensiek	3668
A THEORY OF CONDITIONAL SOCIAL EQUALITY IN LEARNINGS GROUPS H. Ahl, J. Hedegaard	3678
STUDY OF THE EFFECTIVENESS OF PRE-LABORATORY VIDEOS ON ENHANCING STUDENTS' SKILLS AND PERFORMANCE IN THE ANALYTICAL CHEMISTRY PRACTICAL CLASSES	3679
E. Palacio, A. Figuerola, M.A. Vargas-Muñoz, L. Ferrer, J.G. March	
PEDAGOGICAL SUPERVISION FOR STUDENT SUPPORT IN HIGHER EDUCATION D. Stiegele, I. Miķelsone, D. Bethere, I. Griškēviča	3684
ENGLISH FOR TOURISM AND HOSPITALITY PURPOSES IN HIGHER EDUCATION: SOME INSIGHTS FROM ENGLISH FOR SPECIFIC PURPOSES S.R. Pereira, V. Costa	3693
FEATURES OF TEACHING LISTENING SKILLS IN ENGLISH (AT THE SENIOR STAGE OF EDUCATION) E. Harkova, K. Bashkirova	3699
DEVELOPING SCHOOLS AS LEARNING ORGANISATIONS IN LATVIA: UNDERSTANDING AND IMPLEMENTATION PRACTICE IN LOCAL GOVERNMENTS I. Lusena-Ezera, D. Kleina	3704
THE PERCEPTIONS OF SCHOOL LEADERS ABOUT THE IMPLICATIONS OF THE COVID-19 PANDEMIC ON TECHNOLOGICAL, ORGANIZATIONAL, CULTURAL, AND PEDAGOGICAL LEVELS: AN EXPLORATORY STUDY IN PORTUGAL M. Araujo, D. Mesquita	3705
USE OF MODERN TECHNOLOGIES IN TEACHING ENGLISH SPEAKING (AT THE SENIOR STAGE OF TRAINING) E. Harkova, K. Bashkirova	3714
PROJECT BASED LEARNING FOR INCREASING ATTRACTIVITY OF TECHNICAL EDUCATION AT ELEMENTARY SCHOOLS AND HIGH SCHOOLS R. Čermák, R. Teplý, V. Mašek, D. Fait	3721
ENGLISH FOR TOURISM AND HOSPITALITY AS A BOOSTER FOR GLOBAL CITIZENSHIP EDUCATION S.R. Pereira, V. Costa	3728
PHOTO-RESEARCH(ING): APPLICATIONS, OPPORTUNITIES AND CRITICAL ISSUES IN USING PHOTOGRAPHY IN EDUCATIONAL RESEARCH <i>L. Carriera</i>	3736
RELEVANT SKILLS FOR A SUCCESSFUL TRANSITION TO HIGHER EDUCATION: STUDENTS AND TEACHERS' PERSPECTIVES M. Lara, P. Dekkers, J. Brouwer, T. Bom, M. Baars	3743
PERSONALIZED ADAPTIVE LEARNING TECHNOLOGY: SUPERCHARGING SECOND LANGUAGE LEARNING S. Wyatt, M. Redmon	3744
TRAINING INTANGIBLE CULTURAL HERITAGE PROFESSIONALS IN ENTREPRENEURIAL AND DIGITAL SKILLS: THE NICHE CASE P. Polymeropoulou, R. Chaliampalias, N. Ntaliakouras, C. Pierrakeas, A. Kameas	3749

IMPLEMENTING AN EARLY PREVENTION ANALYTICS MODEL ON SUPPORTING STUDENT SUCCESS J. Wang	3757
THE USE OF A VIRTUAL IMAGE AS AN EDUCATIONAL RESOURCE FOR THE OPHTHALMIC OPTICS LABORATORY E. Perales Romero, J. Espinosa Tomás, E. Chorro, B. Domenech Amigot, K. Huraibat, C. Vázquez Ferri, V. Viqueira	3763
BLOOMING PERSONALITIES: ON THE IN-PERSON AND INTEGRATED EDUCATIONAL APPROACH IN HIGHER EDUCATION – A CASE STUDY FROM JAPANESE STUDIES DEPARTMENT OF SOFIA UNIVERSITY "ST KLIMENT OHRIDSKI", BULGARIA V. Nikolova, G. Petkova	3764
PRESENTATION OF AN EDUCATIONAL DECISION SUPPORT TOOL USING ARTIFICIAL INTELLIGENCE TECHNIQUES IN THE PROFESSIONAL LEARNING COMMUNITY CONTEXT A. Villeneuve, A. Huot	3772
UPSKILLING THE PROFESSIONALS IN CULTURAL HERITAGE: A METHODOLOGY IN DESIGNING ONLINE COURSES P. Polymeropoulou, C. Pierrakeas	3778
APPLICATION OF PROJECT-BASED LEARNING IN ANIMAL HUSBANDRY USING FLIPPED CLASSROOM AND VIRTUAL REALITY A. Chikurteva, T. Atanasova	3786
A SERVICE-LEARNING EXPERIENCE TO FOSTER STEM VOCATIONS AND PROMOTE EQUAL OPPORTUNITIES B. Muñoz-Medina, M. García Alberti, S. Blanco, A. Enfedaque, R. Muñoz Pavón	3796
ACCOUNTABILITY & TIME MANAGEMENT: AN INNOVATIVE APPROACH R. Abreu, F. Caetano, F. Carreira, A.C. Borrego, S. Loureiro	3803
RE-FOUNDING THE TRANSDISCIPLINARY DOCTORAL SCHOOL: CO-CREATED EDUCATION FOR CONNOISSEURSHIP Z. Baracskai, K.A. Németh, B. Tamas	3811
EVALUATION OF THE SUSTAINABILITY OF AN ENGINEERING DEGREE APPRENTICESHIP PILOT IN NEW ZEALAND AND THE IMPLICATIONS FOR FUTURE EXPANSION J. Mackay, H. Cadzow	3815
GENERATION OF AN AUTOMATIC-PERSONALISED ACADEMIC CALENDAR R. Muñoz Pavón, P. Carames, J. Jerez, M. García Alberti, A. Enfedaque, B. Muñoz-Medina, S. Blanco	3826
PROPER DRESS CODE: USING CASE STUDIES ON FINNISH TEXTILES COMPANIES TO DISCUSS PROACTIVE LAW, TRADEMARKS, AND SUSTAINABILITY S. Monseau, K. Sorsa	3831
DIGITAL COGNITIVE TECHNOLOGY OF DISTANCE LEARNING BASED ON A UNIFIED ARTIFICIAL IMMUNE SYSTEM G. Samigulina, Z. Samigulina	3841
MENTORING OF PEDAGOGICAL PRACTICE - A STARTING POINT IN THE QUALITY OF EDUCATION E.L. Mara	3842
PSYCHOMETRIC PROPERTIES OF THE TEST OF EARLY ARABIC LITERACY SKILLS <i>E. Hassanein</i>	3847
THE "JUST YOUTH. HAVING A SAY IS A SUSTAINABLE ACTION" EXPERIENCE: FIRST REFLECTIONS ON THE METHODOLOGY OF A UNIVERSITY ORIENTATION PROGRAM C.C. Montà, L. Carriera, E. Biffi, S. Malatesta	3848
INNOVATIVE ACTIVE LEARNING METHODOLOGIES APPLIED TO HEALTH AND AGING-RELATED BACHELOR'S THESES TO ACHIEVE SUSTAINABLE DEVELOPMENT GOALS: THE RESULTS OF IKASASUN-ODS PROJECT T. Teresa Morera-Herreras, M. Torrecilla, AM. Ochoa de Retana, G. Puras, A. Fernández-Quintela, C. Miguelez, L. Sáenz-Del-Burgo, I. Fernández, MP. Portillo, J. Ciriza, E. Sevillano, E. Eraso, A. Vallejo, S. Gómez-Zorita, L. Aguirre, S. Ballesteros, E. Mateo, I. Milton, C. Bruzos-Cidón	3853
ATTITUDES TO THE THERAPEUTIC POTENTIAL OF READING IN ATYPICAL SITUATIONS: A SCIENTIFIC PROJECT FROM BULGARIA IN THE MIDDLE OF ITS IMPLEMENTATION S. Eftimova	3854

ESP WITH ITALIAN DOCUMENT MANAGERS – TEACHING STRATEGIES AND ADAPTATIONS M. Cronin	3861
THE PROSPECTIVE PRIMARY EDUCATION TEACHERS' VIEW ON THE DEVELOPMENT OF MATHEMATICAL LITERACY IN THE NEW CONCEPT OF INFORMATICS IN THE CZECH REPUBLIC J. Wossala, R. Dofková, P. Seidlová	3870
MATHEMATICS, LITERATURE AND ART: GETTING PASSIONATE ABOUT MATHEMATICS THROUGH THE USE OF DIGITAL TECHNOLOGIES A. Amirante, L. Tortorelli, I. Veronesi	3877
TRANSFORMING ASSESSMENT FROM BURDEN TO JOY T. Campbell, M. McMartin	3885
PARTICIPATION OF BACHELOR AND MASTER STUDENTS FROM THE SPECIALTIES OF ARCHIVAL AND DOCUMENTARY STUDIES, UNIVERSITY OF LIBRARY STUDIES AND INFORMATION TECHNOLOGIES IN THE "STUDENT PRACTICES - PHASE 2" PROJECT S. Eftimova	3889
DO CHILDREN WHO LEARNED TO READ DURING COVID 19 READ BETTER FROM SCREENS? S. Dotan, T. Katzir	3895
DIGITAL PRESENTATION OF ARCHIVE-DOCUMENTARY HERITAGE - RESPONSE TO THE EXPECTATIONS AND NEEDS OF USERS AND LIBRARY SPECIALISTS E. Tsvetkova	3896
LATVIAN HIGHER EDUCATION STUDENTS' SELF-ASSESSMENT OF THE INNOVATIVE COMPETENCE IN THE STUDY PROCESS A. Oļesika, S. Slišāne, G. Lāma, Z. Rubene	3905
HELPING DIGITAL NATIVES TO BECOME DIGITAL NATIVES THROUGH PRODUCTION STANDARDS, RESEARCH AND QUALITY SYSTEMS? A.K. Mertineit, D. Burdinski, B. Zulauf, H. Hackradt, N. Meuter, C. Bohrmann-Linde, K. Schaper	3913
HACKATHONS FOR SCHOOLS: COLLABORATIVE INNOVATION EVENTS AS A CONTEXT FOR THE DEVELOPMENT OF THE DIGITAL CAPACITY OF SCHOOLS N. Giannoutsou, T. Nanaieva, A. Brolpito	3921
REFLECTIONS ON DISTANCE EDUCATION MANAGEMENT IN BRAZIL: CASE STUDIES ON THE DEVELOPMENT OF DIDACTIC MATERIAL IN DISTANCE EDUCATION IN CORPORATE UNIVERSITIES E. Naime, A.P. Afonso, M. Vieira	3922
USING TASK-BASED LANGUAGE TEACHING (TBLT) APPROACH TO IMPROVE THE READING PROFICIENCY OF MATURE STUDENTS S. Adjei-Mensah, N. Boakye	3927
DEVELOPMENT OF PROFESSIONAL COMPETENCE OF DESIGN TECHNOLOGY STUDENTS IN MANUFACTURING INTERNSHIP S. Mezinska	3934
AUTHENTIC MATERIALS – GOOD EXAMPLES OF THE NATIVE SPEAKERS' SENSITIVITY TO DIFFERENT ACCENTS AND VARIETIES J. Bérešová	3943
EXPERIENCES AND BEST PRACTICE IN ACCREDITATION AND QUALITY PROCESSES AT FSE UNIZA E. Sventekova, M. Vandlickova	3947
MUSEUM PODCASTING POSSIBILITIES FOR INTERCULTURAL EDUCATION A. Kalizhanova, T. Shelestova	3954
ARE STUDENTS' WORRIES JUSTIFIED WITHOUT STATISTICAL EVIDENCE? J. Bérešová	3959
MODELS AND PRACTICES OF ELEARNING USE AT THE CATHOLIC UNIVERSITY OF MOZAMBIQUE: A CASE STUDY M. Salite, A.P. Afonso, L. Morgado	3964
THE INFLUENCE OF THE THEORY OF EMBODIED COGNITION ON THE DEVELOPMENT OF THE LANGUAGE OF SMALL PRESCHOOLERS M.C. Manea, M.D. Bocoş	3974

TO NURTURE A MULTILINGUAL MIND. FOREIGN LANGUAGE INTRODUCTION IN PRE-SCHOOL. CASE STUDY: BAMBINI BICOCCA KINDERGARTEN P. Lefterov	3975
INTERCULTURAL SKILLS FOR FUTURE SIGNAL PROCESSING ON HEALTHCARE: HOW COLLABORATIVE ON-LINE INTERNATIONAL LEARNING TRAINS ENGINEERS B. Lopez, R.C. Guido, A. Betts, K. Zerva	3982
ACADEMIC PERFORMANCE, GRADE INFLATION AND REGULATORY EXCEPTIONS IN HIGHER EDUCATION DURING THE PANDEMIC D. Toro	3990
INFLUENCE OF COVID-19 ON THE LEARNING OUTCOMES OF UNDERGRADUATE STUDENTS: THE ROLE OF GAMIFICATION M. Vega-Zamora, R. Barreda-Tarrazona	3995
THE PROFESSIONAL UNIVERSITY DEGREE OF ACTUARY THROUGH BLOOM'S TAXONOMY A. Arsuaga-Uriarte, J.I. De-la-Peña-Esteban, A. Garayeta-Bajo, O. Gómez-Pérez-Cacho, R. Moreno-Ruiz, E. Trigo Martínez	4006
CHANGE OR DIE: ORGANIZATIONAL FACTORS THAT FACILITATE OR BLOCK ORGANIZATIONAL SURVIVAL DURING DISRUPTIVE CHANGE I. Mikhailova	4012
CURRENT SAFETY AND SECURITY TOPICS AND BEST PRACTICES OF THEIR IMPLEMENTATION IN STUDY PROGRAMS E. Sventekova, J. Kapusniak	4017
FOLK CRAFTS IN WORK ACTIVITIES AT PRIMARY SCHOOL M. Hubalovska, A. Kubankova, T. Milova	4023
DIVERSITY AND SOCIAL JUSTICE: REVIEW OF POTENTIAL CHALLENGES OF BUILDING DIVERSE AND INCLUSIVE WORKFORCE IN GHANA'S TERTIARY INSTITUTIONS E.K. Honu, D. Dzansi, L. Dzansi, K. Boemah	4031
BLAST – BUILDING LEADERS FOR ADVANCING SCIENCE AND TECHNOLOGY: A PARTNERSHIP BETWEEN THE VIRGINIA SPACE GRANT CONSORTIUM AND THE UNIVERSITY OF VIRGINIA, VIRGINIA POLYTECHNIC INSTITUTE, AND OLD DOMINION UNIVERSITY C. Tomovic, M. Sandy, J. Back, V. Jovanovic, K. Lester, E. Murphy, S. Mckinney, M. Tomovic	4039
APPLICATION OF AUGMENTED REALITY IN TEXT-BASED LEARNING ENVIRONMENTS D. Djulovic, B. Ramic-Brkic	4046
FOUNDATION YEAR 1 DOCTORS AS MEDICAL EDUCATORS – A PROGRAMME INTRODUCING NEWLY QUALIFIED DOCTORS TO UNDERGRADUATE TEACHING THROUGH A WORKSHOP AND DEDICATED NEAR-TO-PEER TUTOR SCHEME H. Knifton	4056
PERCEPTIONS OF TEACHER CANDIDATES ABOUT SCIENCE AND SCIENTISTS Ş. Kösem	4057
HOW EDUCATION IS IMPROVING SOCIAL INTERVENTIONS IN RURAL AREAS L. Pinto, D. Pereira, M. Ferreira	4067
IMPACT OF ECONOMIC CRISIS ON EDUCATION B. Xie	4072
CRITICAL THINKING AND PROBLEM SOLVING B. Xie	4073
LINGUISTIC AND EMOTIONAL EFFECTS OF ANIMAL-ASSISTED LITERACY INTERVENTION PROGRAM AMONG ELEMENTARY SCHOOL STUDENTS WITH READING DIFFICULTIES A. Bufman, O. Lipka, T. Katzir	4078
SMARTEX PROJECT-TRANSNATIONAL COOPERATION BETWEEN UNIVERSITIES P. Díaz-García, L. Capablanca-Francés, R. Belda-Anaya, M. Tufali, B. Zahid, A.W. Rajput	4079
CO-CREATING WARWICK UNIVERSITY COMMUNITY T. Olaofe, S. Mortazavi, B.N. Karaca, C. Gramadevathepura-Shivamadappa, C. Green, M. Macintyre	4085

CIRCULAR ECONOMY OF FIBROUS COMPOSITES AND TECHNICAL TEXTILES E- LEARNING	4090
P. Díaz-García, L. Capablanca-Francés, R. Belda-Anaya, D. Mikucioniene, L. Indrie, N. Dimopoulou, G. Priniotakis	
LESSONS LEARNED FROM THE DEVELOPMENT OF MASSIVE OPEN ONLINE COURSES ON INNOVATIVE STRATEGIES FOR THE REHABILITATION OF BUILT HERITAGE M. Philokyprou, S. Thravalou	4095
RISK FACTORS IN THE RELATIONSHIPS BETWEEN PARENTS OF CHILDREN WITH DISABILITIES AND EXPERTS	4102
Z. Haiclova, I. Grohmann, J. Michalik, P. Hajkova, L. Novakova	
EDUCATING FOR SAFETY AT SCHOOL: ACCIDENT PREVENTION AND ACTION IN CASE OF BURNS G. Colaço, H. Simões, A. Lucena, J.M. Freitas	4109
VALIDATING THE DEVELOPMENT OF SOFT SKILLS SENSITIVITY IN SPECIAL EDUCATORS AND COUNSELLORS P. Jurkovicova	4116
BREAKING DOWN BARRIERS FOR COOPERATION BETWEEN ACADEMIA AND INDUSTRY - 10 YEARS OF MAKING UNIVERSITY-INDUSTRY TRAINING ARENAS HAPPEN F.R. Johansen, G. Andersson, B.G. Hauge	4117
RESEARCH ON CHANGES IN THE VALUE SYSTEM AND LEVEL OF WELL-BEING OF STUDENTS AND THE ELDERLY POPULATION AS A RESULT OF THE COVID-19 PANDEMIC	4118
P. Voborník, V. Strnadová, K. Provazníková	
THE ROLE OF EARLY CHILDHOOD EDUCATORS' WELL-BEING IN THEIR RELATIONSHIP WITH CHILDREN S. Tatalović Vorkapić	4128
MAPPING GOOD PRACTICE IN THE SYSTEM OF SUPPORTING THE INDEPENDENCE OF YOUNG ADULTS WITH DISABILITIES – PARTIAL RESULTS P. Jurkovicova, V. Ruzickova	4138
QUIZZES AND EDUCATIONAL VIDEOS TO IMPROVE PERFORMANCE LEVELS IN TRAINING IN BUILDING STRUCTURES B. Orta, C. Olmedo, M. A. Benito, D. Mencías-Carrizosa, V. Pascual, A. Marín, J. Antuña	4146
H5P-PANDEMIC: COLLABORATIVE DEVELOPMENT OF INTERACTIVE AND PORTABLE EXERCISES IN A GENETIC ENGINEERING GAME A. Sánchez Torralba, C. Blázquez Ortiz, O. Cañadas Benito, B. García-Fojeda García-Valdecasas, G. Guevara Acosta, M.T. López Conejo, M. Lorente Pérez, J.M. Mateo Mendoza, L. Nogués, R. Ranz Valdecasa, S. Rayego Mateos, M. Ruiz Ortega, T. Sánchez Velasco, G. Velasco Díez, J.M. Navarro Llorens	4154
ORGANIZATION OF THE LEARNING CONTEXT IN TIMES OF PANDEMIC: STUDENT PERCEPTIONS P. Morales Bueno, R. Santos Rodas	4160
DEVELOPING AN ONLINE HOME LABORATORY COURSE WHERE STUDENTS MAKE THEIR OWN EQUIPMENT J. Mackay	4165
GRATITUDE INTERVENTION PROGRAM AS A COPING STRATEGY IN UNIVERSITY PROFESSORS	4166
J. Beltran-Sanchez, O. Nava-Manzo, G. Martinez-Ramirez, A. Guardiola-Ramirez, A. Valle-de la O	
DESIGN OF A PHYSICS DYNAMICS LESSON FOR AGRONOMY ENGINEERING BASED ON CRITICAL THINKING AND COOPERATIVE LEARNING L. Amy	4174
THE EFFECTIVENESS OF ONLINE EDUCATION: THREE COMPARATIVE STUDIES R.S. Carlisle	4175
PREPARING STUDENTS FOR THE FUTURE THROUGH ROBOTICS FOR K12 A. Codera, Jr., C. Saulo, J. Caro	4185
JAPANESE TEXTBOOK ANALYSIS: A DISCOURSE-BASED APPROACH V Fester, A Fester, K Umeda	4195

TOTAL QUALITY MANAGEMENT PRACTICES RELATED TO HUMAN TALENT MANAGEMENT AND THE GENERATION OF INNOVATION IN THE HIGHER EDUCATION INSTITUTIONS: A LITERATURE REVIEW A. Mena Vásquez, C. Devece Carañana	4203
AUGMENTED REALITY FOR THE TEACHING OF STEM COURSES IN SENIOR HIGH SCHOOL J. Caro, J.C. Boque, P. Yang-Ed	4213
FOSTERING CHILDREN'S IMAGINATION AND CREATIVE PROCESSES THROUGH MAKING ACTIVITIES TAKING PLACE IN A MAKERSPACE I.M. Santos, L. Menano, C. Habak	4220
ANALYSIS OF FUNCTIONAL REQUIREMENTS OF E-LEARNING AND KNOWLEDGE MANAGEMENT SYSTEMS AND ASSESSMENT OF THEIR EFFICIENCY I. Blagoev, G. Vassileva, V. Monov	4221
THE INVESTIGATION OF STUDENTS WITH HIGH MATHEMATICS ACHIEVEMENTS ATTITUDE TOWARDS TEACHING, LEARNING AND TEACHING - LEARNING CONDITIONS B. Narkevičienė	4231
DIDACTIC COMPETENCES OF STUDENTS OF THE TEACHER EDUCATION PROGRAMME TO PLAN A LESSON IN THE CONTEXT OF THE DEVELOPMENT OF PUPILS' CRITICAL THINKING I. Ištvan	4232
DESIGNING AND IMPLEMENTING A SEMINAR FOR B.ED. STUDENTS FROM MATHEMATICS AND SCIENCE EDUCATION: TEACHING INQUIRY USING THE STEM APPROACH R. Segal, O. Eldar	4238
SELECTED COOPERATIVE METHODS AND THEIR USE TO DEVELOP CRITICAL THINKING IN UNDERGRADUATE TEACHER EDUCATION I. Ištvan	4245
ADAPTING THE TEACHING METHODS FOR EDUCATIONAL PROGRAMS "ADVERTISING AND PUBLIC RELATIONS" AND "PUBLISHING AND EDITING" IN TIME OF CRISIS V. Kasianchuk, O. Levchuk, S. Fiialka, O. Holovko, A. Lytvyn, I. Pobidash	4252
CITIZEN VS. PROFESSIONAL DEVELOPERS: DIFFERENCES AND SIMILARITIES OF SKILLS AND TRAINING REQUIREMENTS FOR LOW CODE DEVELOPMENT PLATFORMS R. Bernsteiner, S. Schlögl, C. Ploder, T. Dilger, F. Brecher	4257
SUMMER CAMPS AND THE FORMAL EDUCATION OF NATURAL SCIENCES IN PRIMARY EDUCATION M. Díaz-Rodriguez, A. Ortuzar-Iragorri	4265
PRAGMATISM AS A TEACHING APPROACH FOR ENGAGING STUDENTS IN COMPUTING EDUCATION S. Sohail, G. Salter	4270
APPLICATION OF PRODUCTION-ORIENTED APPROACH IN THE ENGLISH COURSE FOR NON-ENGLISH MAJOR POSTGRADUATES IN CHINA X.Y. Chen, M. Cao, Q. Xie	4274
PSYCHOMETRIC TESTING OF THE ADAPTED COMPUTATIONAL THINKING TEST IN GREEK CULTURE: ENSURING ITS RELIABILITY, STRUCTURE AND CONVERGENT VALIDITY P. Kakavas, F.C. Ugolini	4281
QUO VADIS? THE PROCESS OF EDUCATION, PREPARATION AND TRAINING OF CADETS – LEADERSHIP IN THE ARMED FORCES ACADEMY OF GEN. M. R. STEFANIK M. Petrufová, L. Belan	4290
INITIAL TEACHERS EDUCATION: THE ETWINNING EXPERIENCE IN FIVE ITALIAN UNIVERSITIES E. Gabbi, I. Ancillotti, M. Ranieri, F. Fabbro	4301
LEARNING ANALYTICS VIEW OF TEACHERS' ACTIVITY IN A LARGE ONLINE PROFESSIONAL COMMUNITY E. Gabbi	4308

THE USE OF INTERACTIVE TABLETOP SURFACE IN SUPPORTING STUDENTS' COLLABORATIVE WORK: INTERACTION AND INTERFACE DESIGN S. Sulaiman, D.R. Awang Rambli, S. Mahamad, S. Basri	4315
OVERDIMENSION OF THE CURRICULUM AS AN OBSTACLE TO ACHIEVING THE QUALITY OF THE TEACHING PROCESS J. Varecha	4316
STUDENT WITH INTELLECTUAL GIFTEDNESS AND ATTENTION DEFICIT HYPERACTIVITY DISORDER IN THE PROCESS OF READING COMPETENCE ACQUISITION L. Lukáč, B. Hlebová, J. Kožárová	4321
LEARNING STYLES AND THEIR INFLUENCE ON QUALITY OF EDUCATION J. Varecha	4329
ONLINE EXAMINATIONS DURING COVID-19 T. Vilner, E. Zur	4330
AUDIOVISUAL MATERIAL FOR THE AUTONOMOUS LEARNING OF SKILLS IN THE LABORATORY COURSES OF THE BACHELOR'S DEGREE IN CHEMISTRY R. Casasnovas, M. Adrover, A. Costa, V. Eim, L. Mariño, J. Ortega-Castro, E. Palacio, C. Palomino, A. Uceda, M. Umaña, B. Vilanova	4334
READING COMPETENCE OF PUPILS OF THE 4TH YEAR OF BASIC EDUCATION IN THE CZECH REPUBLIC	4340
M. Fasnerová, J. Petrová, M. Žišková, J. Trávník, K. Barancová, R. Kárníková	
TEACHING FOREIGN LANGUAGES FOR THE ADAPTATION PERIOD: METHODOLOGICAL CHALLENGES M. Burima	4346
ORGANISING A CHALLENGE-BASED LEARNING EXPERIENCE IN HIGHER EDUCATION: PRE-SERVICE TEACHERS TRAINERS' VIEWS A. Cerveró-Carrascosa, E. González Quiza, A. Chover Lafarga, E. Vidal Prades	4355
DEVELOPMENT AND ASSESSMENT OF A TEACHING PROPOSAL FOR THE COMPREHENSION OF THE MEASUREMENT DIVISION MODEL IN FRACTION-BY-FRACTION DIVISION PROBLEMS BY PRIMARY SCHOOL STUDENTS IN GREECE P. Kakavas, A. Papapouliou, N. Manesis	4362
READING COMPETENCE ISSUES IN STUDENTS WITH ATTENTION DEFICIT HYPERACTIVITY DISORDER IN YOUNGER SCHOOL AGE L. Lukáč, B. Hlebová, J. Kožárová	4372
THE VALUE OF AESTHETIC EXPERIENCE: TEACHER BELIEFS, KNOWLEDGE AND SKILLS IN AESTHETICALLY-INFUSED INQUIRY-BASED LEARNING (AIIBL) IN SINGAPORE SCHOOLS P. Costes-Onishi, A. Azlan	4380
COMMON TEACHING AND ITS EFFECTS IN THE IMPLEMENTATION OF THE CROSS-CULTURAL COMPETENCE COURSE J. Bylica	4381
TRANSFERABLE SKILLS DEVELOPMENT DURING THE PHD - EVALUATION OF DOCTORAL SUMMER SCHOOLS IN CIRCULAR ECONOMY S. Khodaei, M. Bechtold, A. Abdelrazeq, J. Hildenbrand, M. Smol, G. Melo, E. Pirard, I. Isenhardt	4387
IMPLEMENTATION OF THE SOTO MODEL AS A SUCCESSFUL AND FUN LEARNING STRATEGY IN ELEMENTARY SCHOOL F. Jannah, R. Sari, R. Fahlevi, R. Radiansyah, N. Kartika Sari, P. Mega Puspita	4393
SPATIAL PERCEPTION OF THE SOLAR SYSTEM: A 3D VISUALIZATION E-LEARNING MODULE V. Georgiev, A. Nikolova, J. Stoikov	4401
SCHOOL COLLECTIVE SELF-REFLECTION AS A BASIS FOR DIGITAL CAPACITY DEVELOPMENT C. Herrero	4406
HAPTIC TECHNOLOGIES IN VIRTUAL UPSKILLING AND TRAINING SCENARIOS: AN UMBRELLA REVIEW F. Norouzinia, L. Paz, N. Peters, M. Müller, D. Werth	4411
IMPROVING GENDER BALANCE THROUGH A COMBINED STEM DEGREE E. McPherson. A. Clarke. A.M. Gallen. M. Kevs. P. Wolf	4419

TUNEHOP: THE MOBILE APPLICATION FOR LEARNING MUSICAL INSTRUMENTS E. Kuš, M. Čarapina	4429
DIGITAL JOB ONBOARDING F. Niederl, E. Krainz, B. Reiter	4437
INTEGRATION OF NEWCOMERS INTO THE LATVIAN EDUCATION SYSTEM: ANALYSIS OF EXPERIENCE AND OPPORTUNITIES L. Danilane, S. Usca, J. Dzerviniks, I. Prudnikova, V. Dzervinika	4442
PROJECT BASED LEARNING ON DESIGN FOR 3D PRINTING ASSEMBLY P. Bolzan, A. Ascani	4450
APPLIED HEALTH LITERACY IN RELATION TO SOMATIC CHARACTERISTICS AMONG FUTURE EDUCATORS T. Sofková, M. Hřivnová	4457
G-CORE AS AN INNOVATIVE TOOL TO SUPPORT REFLECTION IN A HIGHER EDUCATION ONLINE COURSE A. Isaksson, J. Lindgren, P. Nilsson	4461
LEARNING BY DOING: INVESTIGATING THE INTEGRATION OF DESIGN THINKING RESEARCH METHODS INTO AN AUTO-CONSTRUCTION DESIGN WORKSHOP FOR THE DEVELOPMENT OF LIVING ENVIRONMENTS FOR SENIORS S.M. Gramegna, R. Valušytė	4466
VOLUNTARY QUIZZES AS A MEANS TO SUPPORT SELF-DIRECTED LEARNING AND EXAM PREPARATION S. Eberl, S. Schlögl, T. Spieβ	4474
BLENDED LEARNING: A NEW TREND IN EDUCATION A. Baquero, R. Escortell	4484
HOW DO THIRD GRADE CHILDREN AND THEIR MOTHER'S PERCEIVE PARENTAL INVOLVEMENT IN READING AND IS IT RELATED TO READING ACHIEVEMENT? B. Segal, T. Katzir, M. Shany	4492
THE IMPACT OF A SHIFT IN THE TEACHING ENVIRONMENT OF HANDS-ON ORIENTED COMPUTER NETWORKS COURSE N. Kasunic, D. Bjelobrk Knezevic	4493
COVID-19 AND WAR EMERGENCY REMOTE TEACHING SHIFTS IN UKRAINE: CHALLENGES FACED AND LESSONS LEARNED I. Andrusiak, O. Kolesnyk, M. Slyvka, A. Kolesnyk	4499
PRIMARY SCHOOL PRINCIPALS' PERSPECTIVE ON THE IDEA OF SOCIAL SUPPORT THROUGH HELPFUL AND CONSTRUCTIVE INTERACTIONS WITH COLLEAGUES AS A FACTOR IN RESILIENCE A. Znidarec Cuckovic	4507
PARAMETRIC MODELING FOR ADDITIVE CLAY MANUFACTURING AS A VECTOR FOR SUSTAINABILITY/CIRCULARITY IN DESIGN EDUCATION A. Ascani, L. Cipriani, P. Bolzan	4516
UNIVERSITY - INDUSTRY COLLABORATION EXPERIENCES FROM LINNAEUS UNIVERSITY S. Khoshaba, V. Haralanova	4525
ADDED VALUE OF THE PL@NTNET SMARTPHONE APPLICATION FOR THE MOTIVATION AND PERFORMANCE OF LOWER SECONDARY SCHOOL STUDENTS IN SPECIES IDENTIFICATION V. Lang, A. Šorgo	4534
THE LEVEL OF KNOWLEDGE AMONG FUTURE TEACHERS ABOUT COVID-19 IN THE CONTEXT OF THE REVISION OF THE EDUCATIONAL FIELD HEALTH EDUCATION IN THE CZECH REPUBLIC M. Hřivnová, T. Sofková	4541
GROUP DESIGN OF INFOGRAPHICS, AN INEXHAUSTIBLE VISUAL RESOURCE FOR THE UNIVERSITY TEACHING OF DRAWING M.V. Esgueva López, M.P. Santiago Martín de Madrid, V. Santamarina-Campos, L. Fuster López	4550
EVALUATION OF THE IMPLEMENTATION OF PROJECT-BASED LEARNING IN THE MASTERS IN TEXTILE ENGINEERING AT THE UPV I. Montava Seguí, E. Bou Belda, P. Díaz García, L. Capablanca Francés, J. Gisbert Payá, R. Belda	4557
Anava	

PEDAGOGICAL MODEL OF ACHIEVING PLANNED EDUCATIONAL OUTCOMES BY PRIMARY SCHOOL STUDENTS BY BLENDED LEARNING FORMATS K. Zvyagin, I. Kozlova, L. Makhmutova, L. Yuzdova, T. Moskvitina, I. Balandina	4561
ANALYSIS OF THE RESULTS OBTAINED THROUGH INDICATORS AFTER THE APPLICATION OF THE PBL METHODOLOGY IN THE MASTER'S DEGREE IN TEXTILE ENGINEERING UPV	4566
I. Montava Seguí, E. Bou Belda, L. Capablanca Francés, P. Díaz García, J. Gisbert Payá, R. Belda Anaya	
EDUCATION AND SCIENCE COMMUNICATION TRAINING: A STUDY WITHIN A RESEARCH FELLOWS NUCLEUS S. Ambrósio, R. Torres, S. Santos	4572
RESULTS OF APPLYING THE JIGSAW PUZZLE FOR LEARNING NETWORK TOPOLOGIES M. Dolz, M. Castillo, V. Tomás	4581
MASTER STUDENTS' PERCEIVED VALUE OF AN ELECTIVE COURSE THROUGH THEIR REFLECTIVE STATEMENTS M. Gallarza, Y. Ouazzani, I. Colin-Lachaud, K. Picot-Coupey	4587
DYNAMIC ASSESSMENT OF E-LEARNING IN FOREIGN LANGUAGES PROGRAMS IN SUSTAINABLE AND EMERGENCY DIGITIZATION FORMATS R. Makhachashvili, I. Semenist	4589
LEARNINGS FROM GENDER IN TEACHING COURSES: MAIN NEEDS AND RESISTANCES E. Mas de les Valls, M. Peña, N. Olmedo-Torre, A. Lusa	4595
DATA MODELING - LEARNING OUTCOMES AS THE FINAL METHOD OF EVALUATING THE ACQUIRED KNOWLEDGE AT THE UNIVERSITY NORTH T. Horvat, L. Havaš, D. Srpak, V. Šac	4602
HOLISTIC MODEL OF ENHANCING PERSONALITY IN SOCIAL MEDIA EDUCATION FOR HIGHER INSTITUTION STUDENTS	4608
N. Omar, R. Embong, Z.J. Mohammad Yusoff, F.Z. Ismail, R. Abdul Rashid, I.R. Ismail INNOVATING PRACTICAL SKILLS-ORIENTED TRAINING FOR SECURITY PROFESSIONALS IN THE AREA OF PRIVATE SECURITY Z. Zvakova, M. Boros	4614
SPORTS EVENTS AS AN EDUCATION AREA WITH STUDENTS-PUPILS COLLABORATION H. Wöllik	4619
TEACHER BEING THE LEADING ROLE: INTRODUCING COMPARATIVE LITERATURE MECHANISM IN LITERATURE TRANSLATION COURSE T. Zhang, Z. Du	4624
ANALYSIS OF THE IMPACT OF THE TEACHER'S PRESENCE IN AN ONLINE TRAINING SESSION ON STUDENTS USING THE EYE TRACKING TECHNIQUE J.E. Sandubete, A. Rodríguez-Fuertes, P. Reinares-Lara	4629
PISANKA: THE MOBILE APPLICATION FOR LEARNING HOW TO WRITE UPPERCASE LETTERS F. Čulig, M. Čarapina	4639
PRACTICAL TRAINING OF SECURITY MANAGERS AND SECURITY PROFESSIONALS IN THE FIELD OF PROTECTION AGAINST EXPLOSIVE SYSTEMS Z. Zvakova, L. Figuli	4647
ONLINE TEACHING AND LEARNING IN UNCERTAIN TIMES: CHALLENGES AND WAYS OF COPING WITH THE NEW REALITY IN HIGHER EDUCATION R. Wadmany, N. Davidovitch	4651
THE USE OF SCREENCAST FEEDBACK IN UNDERGRADUATE DIGITAL DESIGN TEACHING PRACTICE M. Green	4657
SOCIAL NETWORKS AS AN EFFECTIVE WAY TO IMPROVE THE INTERCULTURAL COMMUNICATION SKILLS OF CHINESE RUSSIAN LEARNERS: A CASE OF TEACHING COMPLIMENTS Z. Du, T. Zhang	4665

THE SIGNIFICANCE OF TEACHING COMPLIMENTARY TRANSLATION IN LITERARY TRANSLATION COURSES - TAKING CHINESE RUSSIAN LANGUAGE STUDENTS AS EXAMPLE T. Zhang, Z. Du	4670
COMMUNICATING ABOUT THE PANDEMIC IN EARLY CHILDHOOD: THE ALT-ER 2.0 PLATFORM F.M. Dagnino, T. Clavero, M. Haggis-Burridge, R. Jablonskyte, K. Johnson, S. Koivisto, B. Martin, H.	4671
Pedersen, A. Postari	
APOLLONIUS' PROBLEM LCC AS A STIMULUS FOR STUDENTS TO APPLY DIFFERENT GEOMETRIC KNOWLEDGE D. Nocar, J. Vaško, T. Zdráhal	4680
DIGITALLY MEDIATED LEARNING OF ACCOUNTING STUDENTS AMID COVID-19 PANDEMIC: A UNIVERSITY OF TECHNOLOGY CASE STUDY M. Mokhampanyane	4687
STUDENT-TEACHER RELATIONSHIP AND CHILDREN'S ATTACHMENT – IS THERE A CONNECTION? S. Tatalović Vorkapić, I. Mihić, A. Smolić Batelić	4688
RECONSTRUCTING THE QUALITY DEBATE USING INSTITUTIONAL AUDITS IN A COVID-19 CONTEXT: LESSONS FROM THE SOUTH, THE UNISA EXPERIENCE K. Ndlovu, L.L. Lalendle, E. Johannes, M. Matshoba	4699
EVALUATION OF THE EXPERIENCE IN SERVICE-LEARNING ACTIVITIES OF NURSING	4706
STUDENT S. Cebada-Sánchez, M.L. Moratalla-Cebrián, R. Bartolome-Gutiérrez, I. Marcilla-Toribio, C. Berlanga-Macías, M. Martínez Andrés	
LEARNING POWER SYSTEM SIMULATION IN AN INTERNATIONAL FRAMEWORK A. Honrubia-Escribano, L. M. Ramos de Oliveira, M. Cañas Carretón, E. Gómez-Lázaro, N. Alguacil Conde, J. M. Arroyo, J. Contreras Sanz, R. García Bertrand, R. Zárate Miñano, M. Carrión Ruiz- Peinado, S. Martín Martínez, R. Villena-Ruiz, E. Artigao Andicoberry	4707
MICROWAVE FILTER DESIGN AND FABRICATION FOR TEACHING IN ENGINEERING DEGREES	4717
E. G. Marin, A. Toral-Lopez, A. Medina-Rull, F. G. Ruiz, A. Godoy, F. Pasadas HOLISTIC THOUGHTFUL CLASSROOM FOR PROMOTING HIGHER ORDER THINKING SKILLS IN THE 21ST CENTURY LEARNING R. Embong, W.M. Wan Yusoff, S. Che Seman, H.A. Hashim, H. Md Lateh @ Junid	4718
OVERCOMING THE CHALLENGES TO THE ACCESSIBILITY OF DIGITAL LEARNING FOR THE SOCIAL CARE WORKFORCE S. Freeman, L. Lord, S. First	4726
COMMUNICATION ASPECT OF PEDAGOGUE'S COLLABORATION WITH THE SCHOOL PRINCIPAL AND TEACHERS A.M. Iveljić	4731
MAPPING HIGHER JOURNALISM EDUCATION IN EUROPE: DEVELOPMENT OF AN OPEN ACCESS INTERACTIVE DIGITAL REPOSITORY T. Vukić	4742
HUMANISTIC INTEGRATIVE LEARNING APPROACH TO HOLISTIC STUDENT DEVELOPMENT FOR THE POST-PANDEMIC WORLD R. Embong, A. Awang Abd. Rahman @ Jusoh, N. Nordin, H.A. Hashim, A.D. Md Zain	4753
COLLABORATIVE TRANSLATIONS OF EARLY MEDIEVAL ENGLISH LITERARY TEXTS: PROJECT-BASED LEARNING AND THE DEVELOPMENT OF KEY COMPETENCES IN ENGLISH STUDIES	4754
F.J. Minaya Gomez	
FROM SECONDARY EDUCATION TO HIGHER EDUCATION: THE INFLUENCE OF SOCIAL-EMOTIONAL LEARNING DURING EDUCATIONAL TRANSITION P. Dekkers, M. Lara, M. Baars	4759
BUILDING A VIRTUAL LABORATORY BENCH TO EXAMINE HEAT TRANSFER PROCESSES A. Parushev, A. Chekichev, R. Popov	4760
EDUCATION OF CRISIS AND SECURITY MANAGERS FOCUSED ON PSYCHOSOCIAL RISKS RESULTING FROM PRACTICE V. Moricová, Z. Zvaková, D. Kováčová	4765

THE ADVANTAGES OF A VIRTUAL LABORATORY FOR FOREIGN LANGUAGE TEACHING AT UNIVERSITY LEVEL: THE CASE OF ENGLISH FOR SPECIFIC PURPOSES	4772
I.A. Drobot	
A SERVICE-LEARNING PROJECT AS A TEACHING TOOL TO FIGHT AGAINST HYPERTENSION A.A. Sánchez-Pina, A. Agis-Torres, S. Benedito, C. Contreras, A. Gómez Del Val, M. Hernández-Martín, M.V. Hernández, J.A. Isaa, V.S. Leite Fernandes, M.P. Montenegro, M. Muñoz-Picos, J. Navarro-Dorado, N.F. Pascual, D. Prieto, R. Raposo, P. Recio, R. Redondo-Castillejo, L. Rivera, J.M. Bravo, V. Cachofeiro, J.A. García Baró, D. Gómez Garre, R. Gredilla, N. de las Heras, V. Hurtado-Carneiro, A. López-Calderón, A.I. Martín Velasco, E. Martínez-Martínez, A. Moreno-Rupérez, E. Nebot, S.D. Paredes, T. Priego, R. Rodrígues-Díez, A. Sánchez-Aguilera, M. Sancho, G. Segovia, F. Das Chagas Vasconcelos, M.A. Vicente-Torres, M.E. López-Oliva	4778
REMOTE PRACTICE EXAM TESTING ON DOCKER J. Jurc, M. Sterbak, P. Segec	4784
CHANGES IN THE RELATIONSHIP OF HIGH SCHOOL STUDENTS WITH SELF AND OTHERS, THROUGH INVOLVEMENT IN EXTRACURRICULAR EDUCATIONAL ACTIVITIES A. Fantana, D. Opris	4789
BUILDING A VIRTUAL INSTRUMENT FOR RESEARCH AND ANALYZING FILTERS IN LABVIEW AND MATLAB A. Chekichev, A. Parushev, R. Popov	4795
VIRTUALIZATION IN EDUCATION USING THE VIRTUAL ROUTER TOOL J. Jurc, M. Sterbak	4801
WORKSHOP ON LIFE STREAMING SHOPPING: ENGAGING PSYCHOLOGY STUDENTS INTO THE MEASUREMENT OF A NEW CONSUMER EXPERIENCE M. Gallarza, N. Araujo de Oliveira, D. Charris Farrera, A. Ciarlantini, B. De Castro Gomez, J. Hsieh, L. Vilas Boas, T. Panchetti, A. Zenari, Y. Ouazzani, I. Colin-Lachaud, K. Picot-Coupey	4807
FUTURE INNOVATION: DEVELOPING COGNITIVE DIVERSITY THROUGH UNIVERSITY-INDUSTRY COLLABORATION J. Davidson, C. Chase	4809
IMPROVING LEARNING THROUGH THE CREATION AND RESOLUTION OF CLINICAL CASES ONLINE C. Guinot-Barona, C.M. Ferrer Serrador, L. Galán López, A. Lanuza García	4818
THE STRATEGY OF EDUCATION IN ETHICS TO ACQUIRE SOFT SKILLS IN SECURITY SCIENCES D. Kováčová, J. Studená, V. Moricová	4819
THE CHALLENGES AND BENEFITS OF MOVING MUSICAL IMPROVISATION ONLINE: LESSONS FOR EDUCATIONAL DESIGN AND PRACTICE S. Wilson	4824
LINKING THEORY TO PRACTICE: HOW GAME EXPERIENCE CAN CONTRIBUTE TO REVISING AND INCREASING UNDERSTANDING OF THE PARADIGMS OF LEARNING B.J. Godejord	4831
INCREASE MARITIME CYBER SITUATIONAL AWARENESS AT A STRATEGIC LEVEL G. Potamos, E. Stavrou, S. Stavrou, J.C. Lopez, A. Eyzaguirre, C.A. Runyan-Beebe, P. Macias	4836
SAFETY PARK LEARNING ENVIRONMENT AND DIGITAL TECHNOLOGIES FOR TRAINING OCCUPATIONAL SAFETY IN CONSTRUCTION AND ENGLISH FOR PROFESSIONAL COMMUNICATION E. Selezneva	4846
MORAL VALUES AND THE QUANTITATIVE DIMENSION OF THE FRIENDSHIP RELATIONSHIP BETWEEN ADOLESCENTS D. Opris, M. Opris, A. Fantana	4853
EXPERIENCE WITH SEVERAL QUALITATIVE EVALUATION METHODS IN EDUCATION P. Fanta, D. Skokanová	4859
AN INTERDISCIPLINARY PATH TO THE EXPLORATION OF THE UNIVERSE WITH THE USE OF TECHNOLOGIES FOR PRIMARY SCHOOL STUDENTS C. Aramo, I. Veronesi	4865

WEB-ASSESSING FOREIGN LANGUAGE ACQUISITION OF MIXED ABILITY PRIMARY SCHOOL PUPILS TO ENHANCE DIFFERENTIATED FLIPPED BLENDED LEARNING S. Gkika, N. Zygouris, I. Galantomos, P. Oikonomou, G. Dimitriou, S. Kopsidas, G. Stamoulis	4871
EXPLORING PEDAGOGICAL CONTENT KNOWLEDGE OF ENTREPRENEURSHIP EDUCATION, TECHNICAL VOCATIONAL EDUCATION, AND TRAINING LECTURERS IN THE CONTEXT OF KNOWLEDGE OF CONTENT AND STUDENTS M.S. Motsoeneng	4881
THE LEVEL OF DEVELOPMENT OF DIGITAL COMPETENCE AMONG TEACHER TRAINING STUDENTS K. Harangus, A. Kakucs	4882
INTERDISCIPLINARY COLLABORATION ENHANCED BY A SHARED GOAL ON MULTIPLE BACHELOR'S THESIS: A CASE STUDY FOCUSED ON SUSTAINABLE URBAN DRAINAGE SYSTEMS M. Garmendia, A. Gredilla, A. Laurenz, E. Madrazo-Uribeetxebarria, M. Meaurio	4889
THE ROLE OF AUTOMATED STUDENT ADVISING WHEN INCENTIVISING STUDENT SUCCESS R. Rawatlal	4896
A VIRTUAL WORLD EDUCATIONAL GAME FOR TEACHING NEW ICT SKILLS TO TEACHERS: CHALLENGES AND OPPORTUNITIES P. Athanasiou, K. Dimitropoulos, E. Voyiatzaki, I. Hatzilygeroudis	4897
ALGORITHMIC AND SIMULATION-BASED TEACHING OF COMPUTER SCIENCE AND MATHEMATICS IN HIGHER EDUCATION N. Annuš, O. Takáč	4904
THE USE OF VIRTUAL REALITY TO PRACTICE PUBLIC SPEAKING IN A FOREIGN LANGUAGE: A CASE STUDY WITH PORTUGUESE HIGHER EDUCATION STUDENTS C. Tavares, G. Chorão, P. Duarte	4912
ENQER VIEW - AN ANALYTICAL DASHBOARD FOR THE COMPARISON OF UNIVERSITIES' ENTRY QUALIFICATIONS ON EXIT RESULTS N. Paltalidis, Z. Hong	4921
INTERACTION BETWEEN A DIGITAL ELEMENT AND TRADITIONAL TEACHING IN HIGHER EDUCATION CLASSES: LITHUANIA'S CASE I. Piščikienė, V. Mickevičienė	4930
SAP VIEW - ANALYTICAL DASHBOARD SOFTWARE FOR THE ANALYSIS OF STUDENTS' ACADEMIC PERFORMANCE N. Paltalidis, Z. Jin	4940
TEACHER PERCEPTIONS ON IMPLEMENTING MOBILE AR FOR THE TEACHING OF ITALIAN AS A FOREIGN LANGUAGE <i>M. Manna</i>	4948
SELF-ASSESSMENT OF TEACHERS IN DIGCOMPEDU SUB-AREAS P. Bohackova, K. Kilianova, L. Klubal, P. Kockova, K. Kostolanyova	4949
ADDRESSING LOW MOTIVATION IN STUDENTS THROUGH THE ANALYSIS OF THE MOTIVATION PROFILE IN HIGH EDUCATION	4953
B. Martinez Pabón, L. Raya, J.J. García Rueda, M. Angulo, B. Saínza Fraga DISCIPLINARY DIFFERENCES IN DIGITAL COMPETENCE IN ONLINE ASSESSMENT: A EUROPEAN CROSS-COUNTRY AND INTERDISCIPLINARY NEEDS ANALYSIS FOR THE ERASMUS+ PROJECT 'DIGITALHEIGHTS' N. Souleles, M. Samdanis, E. Papageorgiou	4962
AN INTERACTIVE APPROACH TO CHILDREN'S CRITICAL MEDIA LITERACY EDUCATION: DEVELOPING THE MINDING MEDIA VIDEO TRAINING LIBRARY V. O'Rourke, J. Blue	4972
EFFECTS OF DIFFERENT VIDEO PLAYBACK SPEEDS ON THE ACQUISITION OF NEW SKI KNOWLEDGE D. Kuna, M. Marinovic, M. Babic	4979
ASCERTAINING RESEARCH: GRADUATE RESEARCH ASSISTANTS ONE YEAR JOURNEY J. Harding Middleton	4986
PROBLEMS AND COUNTERMEASURES OF ONLINE TEACHING DURING THE EPIDEMIC O Bai, Y Cao, Y Huang	4991

THE EYES OF KINDERGARTEN TEACHERS AND THERAPISTS IN KINDERGARTENS S. Bar-On	4998
TEACHING COMPUTER SCIENCE FOR THE GENERATION Z – WHY WE NEED MORE PROBLEM-BASED TEACHING IN CS CURRICULA E. Krainz, A. Öffl, J. Feiner, H. Schwab, M. Knoll, W. Zugaj	4999
TRANSITION SKILLS IN HIGHER EDUCATION E.W. de Vries	5006
LIVED EXPERIENCES OF PRE-SERVICE ACCOUNTING TEACHERS DURING COVID-19 ERA IN INSTITUTIONS OF HIGHER LEARNING L. Mphatsoane	5011
APOLLONIUS' PROBLEM CCC AS A STIMULUS FOR NEW SOLUTION METHODS USING MATHEMATICAL SOFTWARE D. Nocar, J. Vaško, T. Zdráhal	5015
MODELLING A CO-DESIGN PROCESS TO ENVISION DESIGN DIDACTICS IN A POST-PANDEMIC TIME - THE CASE OF THE SCHOOL OF DESIGN, POLITECNICO DI MILANO A.G. Manciaracina, I. Bollati, M. Mazzarello, A. Taverna	5022
EXPLORATION OF DISTANCE LEARNING OF FOREIGN LANGUAGES UNDER MOBILE LEARNING DURING THE EPIDEMIC Q. Bai, Y. Cao, Y. Huang	5030
ANALYSIS OF THE NEED FOR INTERDISCIPLINARY ART CURRICULUM Y. Cao, Q. Bai, M. Mishatkina	5037
THE IMPORTANCE OF MOTIVATION IN COMPUTER SCIENCE TEACHING A. Acalin, K. Pavlina, A. Pongrac Pavlina	5044
WHAT DO THEY KNOW ABOUT THE EARTH SYSTEM AND GEOETHICS? PORTUGUESE 11TH-GRADE STUDENTS AND SENIOR CITIZENS' CONCEPTIONS T. Ribeiro, C. Vasconcelos	5050
MODEL CONSTRUCTION FOR THE SYNTHESIS OF THE SUBJECT NATURAL SCIENCES I A. Ortuzar-Iragorri	5059
THE RETURN TO THE CLASSROOM: OFFERING SCAFFOLDING JOINT CLASSES TO PREPARE FOR FLIPPED WORKGROUPS C. Tromp	5060
THE LABORATORY WORK AND THE RELEVANCE OF GOWIN'S V: PORTUGUESE MIDDLE SCHOOL SCIENCE TEACHERS' PERCEPTIONS D. Lima, C. Vasconcelos	5069
HOW EYE-TRACKING TECHNOLOGY CAN BE USED IN DYSLEXIA RESEARCH: AN OVERVIEW N. Dostálová	5076
PRESENTING MEANINGFUL MATHEMATICAL TASKS THROUGH STORIES FROM HISTORY OF MATHEMATICS: EXAMPLES FROM THE ISLAMIC CONTEXT H. Haydar, B. Durmaz	5077
ON THE HIGHER EDUCATION QUALITY AND IMPLICATIONS FOR SUSTAINABLE DEVELOPMENT	5086
I. Chiyon Carrasco, S. Sastre-Merino, C. Garay Rondero, J.C. Mosquera Feijoo	5 006
FOSTERING COLLABORATIVE ONLINE LEARNING: PRE-SERVICE STUDENTS' PERSPECTIVES N.M. Majola, B. Lenong, G. Hlumbane	5096
A JOURNEY FROM THE SCHOOLYARD TO THE MOON AND BEYOND: DISCOVERING WAYS TO "GROW" THROUGH RISKY PLAY M. Galafti, C. Georgiou, D. Daskalaki, M. Dagkli, E. Markou, A. Griva, M. Liapi, KA. Oungrinis	5103
RESEARCH TRENDS IN THE USE OF SOCIAL MEDIA AS A TEACHING AND LEARNING TOOL IN HIGHER EDUCATION: CONTENT AND BIBLIOMETRIC ANALYSIS E. Perez, S. Manca, R. Fernández-Pascual, C. Mc Guckin	5112
A SENSORY GARDEN FOR ENVIRONMENTAL EDUCATION AND LIFE QUALITY IMPROVEMENT	5117
I. Naama Ferreira Lopes, A. Santos de Souza, A. Colares Soares, A.G. Gomes Travassos, V.M.L. Guida, L.S. Paes, J. Mesquita Vidal Martínez de Lucena	

SOCIAL EMOTIONAL ENVIRONMENT COMPONENT OF SELF-DIRECTED LEARNING SKILLS DEVELOPMENT IN PRIMARY SCHOOL (GRADES 1-3) I. Pelnēna, A. Medveckis	5124
EVALUATION OF THE STUDENTS' PRACTICE FROM THE COMPANIES' POINT OF VIEW M. Kuncova, D. Frendlovska, J. Seknickova	5131
CONCRETE DOSAGE: FROM TRIAL-AND-ERROR TO THE USE OF PERSONAL COMPUTERS, WHICH METHOD IS BETTER FOR UNIVERSITY STUDENTS? E. Gimenez-Carbo, C. Mozo, H. Coll, L. Soriano	5138
LIVED EXPERIENCES OF ACCOUNTING TEACHERS IN SELECTED SCHOOLS ON ONLINE LEARNING: SUSTAINABLE CURRICULUM PRACTICE APPROACH L. Mphatsoane	5143
THE EFFECT OF ART HISTORY TRAINING ON ARTISTIC CRITICAL THINKING DURING COVID-19 LOCKDOWN B. Tamas, A. Barta, B. Galfi	5144
INFOGRAPHICS AS AN INSTRUMENT OF CONTINUOUS EVALUATION: A PROPOSAL FROM THE EXPERIENCE OF USING THE TOOL AS A GROUP PRACTICAL ACTIVITY D. Catala-Perez, M.B. De Miguel-Molina, M. De Miguel-Molina, V. Santamarina-Campos	5149
FACTORS AFFECTING E-LEANERS' SATISFACTION ON DISTANT LEARNING: A CASE OF LOMONOSOV MOSCOW STATE UNIVERSITY GRADUATE PROGRAMS A. Kisil, M. Ulyanova	5156
COUPLING CULTURALLY RESPONSIVE TEACHING AND STEAM EDUCATION: EXAMINING GLOBAL AND LOCAL HERITAGE SITES TO DEVELOP STEAM PROFICIENCIES C. Maguire, T. Hogan	5164
POTENTIALS FOR TECHNOLOGY-SUPPORTED TEACHING AND LEARNING IN CONTINUING EDUCATION: INSIGHTS FROM A MIXED METHODS STUDY L. Häßlich	5165
PYTHON COURSE FOR GAME DEVELOPMENT: AN INITIATIVE OF WOMEN IN STEM C. B. Souza, E. H. Q. V. Costa, J. C. C. Duarte, M. G. Moreira, S. M. B. S. B. Fraga, V. Rodrighero, L. R. Santos, C. A. Martins, F. A. Pereira, I. B. Henriques, M. M. Silva, M. M. S. Matsumoto, N. Jodas, S. S. D. Custódio, L. K. Teles, K. D. Fook	5175
AVOIDING MISSING IMPORTANT STEPS IN EDUCATIONAL MANAGEMENT G.M. Moraru	5183
FOSTERING TRANSNATIONAL RESEARCH, INNOVATION AND EDUCATION THROUGH AN INTERNATIONAL EUROPE AND AFRICA COLLABORATION PROJECT I. Mocanu, O. Cramariuc, K. Bierwirth, H. Lebik, B. Kodom, M. Mecklin	5190
LEVERAGING THE INTERNET OF THINGS TOWARDS RAISING ENVIRONMENTAL AWARENESS IN EUROPEAN CLASSROOMS T. Kouvara, A. Fanariotis, V. Fotopoulos, C. Karachristos, T. Orphanoudakis	5195
THE RELATIONSHIP BETWEEN EMPATHY AND EMOTIONAL EXHAUSTION IN UNIVERSITY PROFESSORS	5203
G. Martinez-Ramirez, O. Nava-Manzo, A. Guardiola-Ramirez, J. Beltran-Sanchez, A. Valle-de la O INCLUSIVE DESIGN TO BRIDGE THE DIGITAL DIVIDE AND TO INCREASE ACCEPTANCE OF OLDER ADULTS FOR SMART MEDICATION COMPLIANCE DEVICES I. Mocanu, O. Cramariuc, K. Bierwirth, K. Piotrowicz, A. Mocanu	5209
EDUCATION AND INCLUSION OF FORCED MIGRANTS THROUGH SPORT: UNDERSTANDINGS FROM POLITICS AND PRACTICE B. Valongo, T. Silva Dias, S. Marques da Silva	5216
PROFESSIONAL TRAINING OF LAST YEAR ENGINEERING STUDENTS USING THE CASE STUDY METHOD G.M. Moraru	5217
TRANSITION UP, OUT AND BACK; CONTEXTUALISING INCLUSIVE STUDENT LIFECYCLE INTERVENTIONS AGAINST GRADUATE LIMINALITY A. Amayo	5223
POETIC INSIGHT INTO STUDENT MOTIVATION AND EXPERIENCE L. Robson	5224

EXAMINING THE RESULTS OF FINAL PAPERS IN MECHANICAL ENGINEERING DURING THE COVID-19 PANDEMIC G. Kiss, E.C. Berecz	5228
AN INSIGHT IN THE DIMENSIONS OF INSTRUCTION QUALITY IN ENGINEERING EDUCATION	5233
J.C. Mosquera Feijoo, S. Andrés Martínez, D. Santillán Sánchez, L. Cueto-Felgueroso Landeira THE IMPACT OF A SHARED SCREEN ON A TEACHER'S ACTIVITIES IN A COMPUTER- SUPPORTED CLASSROOM	5243
R. Shaikh, H. Raval FINDING POETRY IN YOUR DATA L. Robson	5244
SELF-REPORTED INAPPROPRIATE NEGOTIATION STRATEGIES QUESTIONNAIRE COMPARISONS AMONG BUSINESS VERSUS SOFTWARE ENGINEERING STUDENTS D. Brannon, M. Manshad, V. Iyer	5245
THE RELATIONSHIP BETWEEN CHEMISTRY AND TELECOMMUNICATIONS ENGINEERING AS A DRIVING FORCE AND MOTIVATION FOR UNDERGRADUATE THESIS WITH IMPROVED TRANSVERSAL SKILLS M. Azkune, I. Moreno-Benítez, I. Castellanos, A. Fidalgo, J. Sánchez Bodón, J. Cepeda, J.J. Esteban, L.	5246
Ruiz Rubio A NEW SET OF TOOLS FOR ADAPTIVE SELF-PACED LEARNING IN COMPUTER-AIDED DESIGN FOR ENGINEERING F. Salmerón Medina, M. Alcalde Rico, F. Gómez-Estern Aguilar, F. Valderrama Gual	5251
DIGITAL LITERACY & MOTIVATION: CREATING PERSONAS WITH MIXED-METHODS TO TAILOR ONLINE TRAINING TO THE CRAFT INDUSTRY M. Tasliarmut, D. Langer, J. Birke, S. Zeiner-Fink, A.C. Bullinger	5261
EDUCATIONAL RESEARCHERS AND SCIENCE COMMUNICATION: THE CASE OF A BIWEEKLY COLUMN PUBLISHED IN REGIONAL NEWSPAPER S. Ambrósio, M.H. Araújo E Sá, C. Guerra	5269
FACILITATION OF COMPETENCE ACQUISITION THROUGH FORMATIVE E-ASSESSMENT R. Meissner, C. Ruhland	5270
MICROCREDENTIALS FOR IN SERVICE MATHEMATICS TEACHERS AND AMBITIOUS TEACHING PRACTICES: UNDERSTANDING THE STRENGTHS AND BARRIERS H. Haydar	5278
AUTOMATED GRADING IN COMPUTER-AIDED DESIGN FOR ENGINEERING F. Salmerón Medina, M. Alcalde Rico, F. Gómez-Estern Aguilar, F. Valderrama Gual	5279
CONCEPTION OF TEACHING THE COURSE NUMERICAL METHODS AND STATISTICS AT THE FACULTY OF MECHANICAL ENGINEERING, UNIVERSITY OF ŽILINA AND ITS TRANSFORMATION DURING THE COVID 19 PANDEMIC 1. Pobočíková, M. Michalková, Z. Sedliačková, V. Guldan, R. Chupáč	5290
INTERACTIVE INNOVATION BROKER: A CONSENSUAL FRAMEWORK FOR MULTI-ACTOR APPROACH PRACTICAL IMPLEMENTATION O. Bernardez, J. Domingues, N. Rodriguez-Aubo, W. Filipowska, C. Cotelo	5298
STUDENTS' SATISFACTION IN THE ACCOUNTING AND ADMINISTRATION GRADUATION: FACTORS THAT AFFECTED THE EXPERIENCE OF DISTANCE LEARNING CONTEXT A. Monteiro, R. Bertuzi, C. Pereira, R. Soares	5303
SPACES FOR YOUTH PARTICIPATION IN DECISION-MAKING: A PEDAGOGICAL REFLECTION BASED ON A CONTENT ANALYSIS OF EUROPEAN AND INTERNATIONAL YOUTH STRATEGIES D. Bianchi, L. Carriera, C.C. Montà	5311
WHAT ABOUT SCHOOL PROFESSIONALS? SELF-ASSESSMENT OF THEIR SOCIO- EMOTIONAL COMPETENCIES T. Maglica, A. Grčić, M. Ljubetić	5316
CREATING GLOBAL CITIZENS: DIVERSITY, EQUITY, AND INCLUSION IN GENERAL EDUCATION CURRICULUM A. Dominguez	5326
BEYOND A BLURB ON THE RESUME: IMPROVING THE ACADEMIC VALUE OF FIELD EXPERIENCES THROUGH STRUCTURED REFLECTION M. Finkenberg	5336

ASSESSING CHANGE: ASSESSMENT, ACCREDITATION AND CURRICULUM DESIGN A. Dominguez	5337
EXPLORING SOCIAL MEDIA USES AND INTERNET ADDICTION DURING THE PANDEMIC P. Silveira	5338
WHAT LIES BENEATH? USING A MULTIMODAL INQUIRY FRAMEWORK TO EXAMINE LECTURERS' SEMIOTIC CHOICES IN THE DESIGN AND DEVELOPMENT OF MULTIMODAL SCREENCASTS TO TEACH DISCIPLINARY CONCEPTS IN HIGHER EDUCATION G. McDermott	5342
REMOTE TEACHING METHOD FOR HUMAN-ROBOT COLLABORATION ON THE FACTORY FLOOR W. Souza Picanço, G. Soprano Machado, M. Melo de Carvalho, F. Antonio de Carvalho Ayres Junior,	5350
R. Landau Paiva de Medeiros, V. Ferreira de Lucena Junior DISTANCE LEARNING MODEL FOR EXERCISE INTERVENTION IN ADOLESCENTS WITH ANGINA PECTORIS	5360
M. Guan, B. Pu, R. Cao, H. Jingbo CLASSROOM MANAGEMENT WITHOUT TEARS: SOCIAL EMOTIONAL LEARNING AS SUSTAINABLE APPROACH TO BEHAVIORAL CHANGE R. Pelton	5366
THE IMPACT OF A FIRST-YEAR ORIENTATION TEAM BUILDING EXERCISE J. Smallwood, C. Allen	5367
FOREST PEDAGOGY AS ONE OF THE APPROACHES TO SUSTAINABLE DEVELOPMENT IN EDUCATION D. Kollárová, S. Borisová	5374
ADAPTATION OF TEACHING METHODOLOGIES IN ADULT EDUCATION: APPLICATION IN THE SENIOR CLASSROOM OF THE UNIVERSITY OF MURCIA A. Martinez Serrano	5381
THE EFFECTIVENESS OF LEARNING MODEL GAWI MANUNTUNG TO INCREASE HIGH ORDER THINKING SKILLS AND DIGITAL LITERACY SKILLS ELEMENTARY SCHOOL STUDENTS A. Suriansyah, A.R. Agusta, N. Ngadimun, I. Sin, M.F. Mohd Yaakob, A. Aslamiah, D.A. Pratiwi, N. Noorhapizah, R. Purwanti, B.B. Wiyono	5389
SUSTAINABILITY CHALLENGE AS A MOTOR FOR THE DEVELOPMENT OF TRANSVERSAL SKILLS IN MATERIALS SCIENCE AND UNDERGRADUATE THESIS IN CHEMISTRY: SUSTAINABLE MATERIALS FOR WIND TURBINES I. Moreno Benítez, A. Veloso, M. Azkune, C. Calabrese, A. Lasheras, I. Ayesta, I. Usabiaga, J.L. Vilas-Vilela, L. Ruiz Rubio	5401
ENGINEERING INNOVATIVE WAYS TO SUSTAIN LEARNING FOR PRE-SERVICE ECONOMIC AND MANAGEMENT SCIENCE TEACHERS IN CURRICULUM PRACTICE M. Mphuthi, M. Tshelane	5405
ANALYSIS OF THE TRANSITION FROM ONLINE EDUCATION TO FACE-TO-FACE EDUCATION IN TEXTILE ENGINEERING AFTER THE COVID 19 PANDEMIC A. Buhu, L. Buhu	5413
THE RELATIONSHIP BETWEEN BULGARIAN PRIMARY TEACHERS' EMPATHY AND ITS "PROFESSIONAL EMPATHY" IN THE ASPECT OF DESIGN THINKING AS AN EDUCATIONAL APPROACH N. Kaloyanova, D. Donev	5419
PERCEPTION OF THE EFFECTIVENESS OF CHEMISTRY TEACHERS' E-COMMUNICATION WITH STUDENTS, PARENTS AND COLLEAGUES S. Milković Šipek, D. Černi, O. Martinis	5420
CREATING ACCESSIBLE ACADEMIC SUPPORT PROGRAM ACCOMMODATIVE OF THE NEW NORMAL IN CURRICULUM PRACTICE FOR PRE-SERVICE TEACHERS M. Mphuthi, M. Tshelane	5427
IN FAVOR OF CHANGE: USING THE COM-B MODEL TO CHARACTERIZE TRAINERS' BEHAVIOR DURING THE DIGITIZATION PROCESS OF VOCATIONAL TRAINING J. Birke, M. Tasliarmut, I. Friedrich, S. Zeiner-Fink, A.C. Bullinger	5428
AMBIPOLAR RADIOFREQUENCY APPLICATIONS FOR THE NEXT GENERATION OF MICROWAVE ENGINEERS F. Pasadas, A. Medina-Rull, A. Toral-Lopez, F. G. Ruiz, A. Godoy, E. G. Marin	5437

IMPLEMENTING UNIVERSAL DESIGN FOR LEARNING TO PROMOTE LANGUAGE PARITY IN ONLINE COURSES: A PILOT TRANSLATION INITIATIVE M. Redmon, S. Wyatt, W. Howard	5438
AUTOMATION OF KAHOOT! BY THE HUMANOID ROBOT PEPPER A. Dannecker, D. Hertig	5442
INCLUSIVE PEDAGOGY IN PRACTICE: THE POINT OF VIEW OF TEACHERS M. Passarelli, F.M. Dagnino, S. Ivanov, D. Persico	5450
EDUTAINMENT TECHNOLOGIES IN PRIMARY SCHOOL EDUCATIONAL PRACTICES B. Shao	5459
THE ROLE OF PRESCHOOL TEACHERS IN PROMOTION OF CHILD MENTAL HEALTH S. Skočić Mihić, K. Babić Milih, R. Čepić	5464
PROJECT-BASED LEARNING TO UNDERSTAND THE STERIC EFFECT OF CHEMICAL LIGANDS BY A WEB-SERVER A. Poater	5472
INTEGRATING CITIZEN OBSERVATORIES INTO SCHOOL ENVIRONMENTAL EDUCATION FOR SUSTAINABILITY: DESIGN AND EVALUATION OF A CASE STUDY ENGAGING STUDENTS WITH PL@NTNET AND ODOURCOLLECT M. Daskolia, M. Pappa, A. Joly, P. Bonnet, R. Arias, J. Piera, K. Soacha	5479
PERCEIVED TEACHERS' INCLUSIVE COMPETENCIES AND PROFESSIONAL DEVELOPMENT	5490
S. Skočić Mihić, K. Jurčić Malinarić, R. Čepić	
THE FUTURE OF EAP IN HIGHER EDUCATION: AN ITALIAN PERSPECTIVE A. Romagnuolo	5498
THE INCREASE IN ACTIVE TEACHING METHODOLOGIES AND THEIR DOCUMENTARY FRAMEWORK M.M. Silva, M.J. Ferreira, D.R. Alves	5507
SCHOOL DROPOUT: CHARACTERIZATION OF THE CONDITIONS OF STUDENTS AT A PORTUGUESE HIGHER EDUCATION INSTITUTION M. Lopes, P. Sismeiro Pereira, P. Fortunato Vaz	5514
METHODS OF TEACHING USING SOFTWARE APPLICATIONS AND TRUE EFFECTS OF THESE METHODS J. Jánský, J. Jekl, V. Růžička	5523
UNIVERSITY SUPPORT, STUDENTS' SKILLS AND ENTREPRENEURIAL INTENTIONS: A PLANNED BEHAVIOUR APPROACH C.S. Marques, C.P. Marques, C. Leal	5533
HOW DO ACADEMICS PERCEIVE THE BENEFITS AND COSTS OF COLLABORATING WITH INDUSTRY? C. Marques, C.S. Marques, C. Leal	5534
ROMANIAN AS A MOTHER TONGUE AND AS A FOREIGN LANGUAGE - COMPARATIVE STUDY ROMANIA - REPUBLIC OF MOLDOVA G. Ciobotaru	5535
"STUDY FRIENDS": AN INNOVATIVE TUTORING INTERVENTION PROJECT IN MIDDLE SCHOOLS	5536
I. Coppola, C. Rivella, F. Lagomarsino, A. Modugno, N. Rania	
THEMES OF NATURE IN CHILDREN'S PHILOSOPHICAL LITERARY STORIES AS ONE OF THE POSSIBILITIES OF FORMING A RELATIONSHIP WITH NATURE S. Borisová, G. Pintes	5541
FROM MOTIVATION TO INTENTION TO BE AN ENTREPRENEUR – DOES THE UNIVERSITY SUPPORT MATTER? C. Leal, C. Marques, C.S. Marques	5547
FRONT WINNERS A PROJECT FOCUSED ON THE RESKILLING PROCESS OF MENTORS FOR STUDENTS WITH DISABILITIES M. Potes Barbas, P. Matos, E. Casimiro	5548
DESIGNING A CONSTRUCTIVIST PROBLEM BASED-LEARNING (PBL) STRATEGY THROUGH VIDEO IN PATHOPHYSIOLOGY M. Hernández-Martín, A. Gómez del Val, R. Redondo-Castillejo, J. Navarro-Dorado, M. Muñoz-Picos, N.F. Pascual, M.P. Montenegro, C. Contreras, J.J. Merino, A. Sánchez-Pina, A. Agis-Torres, B. Climent, P. Recio, R. Raposo, S. Benedito, L. Rivera, D. Prieto, M. Hernández, M.E. López-Oliva, V.S. Leite Fernandes	5553

TEACHING INTEGRATED MUNICIPAL SOLID WASTE MANAGEMENT TO PEOPLE IN THE HUERTO ROMA VERDE, CDMX, MEXICO	5559
D. Linares Ramírez, P. Barandiarán, B.E. Gutiérrez Barba, Y. Cuetero Martínez, J. Rodríguez Gutiérrez, R.F. da Silva	
BEE-BOT & BLUE-BOT: FROM MINDLESS TAPPING TO ALGORITHM CREATION K. Kilianova, P. Kockova, P. Bohackova, L. Klubal, K. Kostolanyova	5565
FLIPPING THE CLASSROOM IN ADVANCED COURSES: IS IT EFFECTIVE? G. Abio, M. Alcañiz, C. Patxot, M. Gómez-Puig, G. Rubert, M. Serrano, A. Stoyanova	5573
THE IMPACT OF COVID-19 ON ENGINEERING STUDENTS IN ITALY: PROFILE AND PERFORMANCE CHANGE FROM 2019 TO 2021 E. Bottani, G. Casella, S. Filippelli, B. Bigliardi	5578
E-LEARNING EXPERIENCES FOR THE ENTREPRENEURIAL EDUCATION OF STUDENTS E. Pecheanu, A. Cocu, I. Susnea, L. Kevelaerts	5587
DESIGN & DEVELOP A SMART LEARNING CITY ENVIRONMENT FOR SUSTAINABILITY M. M. Marques, L. Pombo	5595
A SERVICE-LEARNING EXPERIENCE BASED ON SUSTAINABLE DEVELOPMENT GOALS IN SECONDARY AND HIGHER EDUCATION I. Blanco-Gutiérrez, J.R. Ferrer, S. Benito, J. Ruiz, S. Seoane, P. Almendros-Garcia, F. Revuelta	5602
EMPLOYABILITY OF UNIVERSITY GRADUATES IN CHANGING LABOUR MARKET CONDITIONS: CASE OF LATVIA 1. Jaunzeme, S. Busule	5611
TEACHING INTERCULTURAL COMMUNICATION AS A PATH TO INCLUSIVE AND OPEN SOCIETY: ANALYSIS OF TEXTBOOKS AND CURRICULA A. Romanovska, T. Bogdanovica	5612
REALIZATION OF AN APPLIED LEARNING GAME FOR A WORK TASK SIMULATION SUPPORTING TRAINING OF WORK DESIGN SKILLS DURING QUALIFICATIONS-BASED LEARNING R. Srbecky, S.A. Wetzel, D. Delvos, B. Kres, K. Overdiek, W. Fraas, M. Winterhagen, J. Dettmers, M. Hemmje	5620
APPROACHING THE ANALYSIS OF TEACHING ACTIVITY THROUGH COLLABORATIVE SELF-REFLECTION FROM THE PERSPECTIVE OF TEACHERS' SOCIAL INTERACTIONS A.M. Cioloca, L.I. Verdes, M. Bocos	5630
IMPACTS OF INCLUSIVE MAKER PROGRAMMING ON STUDENTS' ENGINEERING KNOWLEDGE AND INTEREST S. Gardner, A. Woods, L. Jackson, A. Riccio, W. Martin	5637
CRITICAL THINKING AND RAISING SOCIAL AWARENESS REGARDING REFUGEE CRISIS IN ENGLISH LANGUAGE TEACHING THROUGH DIFFERENTIATED INSTRUCTION—A CASE STUDY BASED ON "THE BEST WE COULD DO" BY THI BUI C. Tziovara, V. Golfinopoulou, S. Kaldi	5645
EVIDENCE-BASED GOOD TEACHING SUCCEEDS FACE-2-FACE AND ONLINE A. Dannecker, U. Hanke	5650
WEB-BASED INTERVENTION TO HELP NURSES TO MANAGE WORK-RELATED STRESS (WBI-WRS) IN SAUDI ARABIA: A FEASIBILITY STUDY Y. Allehyani, H. Wharrad, H. Blake	5657
UNDERGRADUATE TEACHER TRAINING FOR WORKING WITH A DYSLEXIC PUPIL J. Petrová, M. Fasnerová	5658
POP-ITS IN EARLY CHILDHOOD EDUCATION TO ENCOURAGE THE DEVELOPMENT OF MATHEMATICAL LOGICAL THINKING A.A. Magreñán, L. Orcos, I. Palacios, D. Lapresa	5666
INCARCERATED STUDENTS' EXPERIENCES ON FACTORS INHIBITING EFFECTIVE LEARNING IN A COMPREHENSIVE OPEN DISTANCE E-LEARNING INSTITUTION IN SOUTH AFRICA M.G. Mlambo	5676
CO-CREATING DIGITAL SOLUTIONS FOR ALZHEIMER INFORMAL CAREGIVERS: A PILOT TRAINING COURSE C. Soares, R. Madeira, G. Colaco, P. Macedo	5685

A REVISITED PARETO ANALYSIS FOR RANKING STUDIES, JOURNALS AND AUTHORS IN SYSTEMATIC LITERATURE REVIEWS E. Bottani, G. Casella, S. Filippelli, B. Bigliardi	5686
THE INFLUENCE OF FREQUENT QUIZ-BASED EXAMS ON LEARNING PERFORMANCE AMONG COMPUTER SCIENCE STUDENTS I. Pesovski, V. Trajkovik	5693
TEACHING APPLIED THROUGH REMOTE BOOT CAMP: AN EXPERIENCE REPORT A.M. Loureiro, V. Bremgartner, L.M. Silva, P.S. Fernandes	5700
PROTOCOL FOR RESEARCH-ORIENTED FINAL PROJECTS M.M. Capobianco-Uriarte, J. Tarifa Fernández, E. Carmona Moreno	5705
DEVELOPMENT OF AN INITIAL MATHEMATICS COURSE FOR STUDENTS OF THE FIRST YEAR OF TEACHER OF PRIMARY EDUCATION DEGREE A.A. Magreñán, L. Orcos, M.A. Hernández-Verón, J. A. Ezquerro	5706
ROBOTSOLUTION: A KIT FOR THE DEVELOPMENT OF COMPUTATIONAL THINKING SKILLS IN HIGH SCHOOL STUDENTS D. Marinho, V. Bremgartner, A. Loureiro, L. Silva	5716
TRANSDISCIPLINARITY AND INTERDISCIPLINARITY IN THE TEACHING OF PSYCHOLOGY M.V. Zerbes, V.S. Neamu, L.G. Popescu, A. Olteanu	5723
ENHANCING STEM EDUCATION THROUGH PROJECT-BASED LEARNING COMBINED WITH VIRTUAL AND AUGMENTED REALITY P. Petrov, T. Atanasova	5730
INCLUSIVE TEACHING AND LEARNING FOCUSED ON PUPILS WITH CONDUCT DISORDERS M. Kaleja, E. Satinská	5737
START IT: ENTREPRENEURSHIP AND DIGITAL SKILLS H. Bollaert, J. Hautamaki, J. Isohanni, J.C. Monteiro, K. Podlaski, P. Possemiers, D. O'Reilly, K. Simbeck, Z. Stawska	5738
SUSTAINABLE URBAN MOBILITY WORKSHOP FOR YOUNG PEOPLE H. Gonzalo-Orden, M. Miguel-Borge, A.M. Aguilar López, H. Pérez-Acebo	5742
WORKLOAD ALLOCATION, THE CASE OF THREE SOUTH AFRICAN HIGHER EDUCATION INSTITUTIONS B. Masiye, L.L. Lalendle, M. Molapo, S. Ndlovu	5752
INCLUSIVE HIGHER EDUCATION SYSTEM: IS IT A QUESTION OR A CHALLENGE? M. Kaleja, E. Satinská	5757
DEVELOPMENT OF A PROJECT TO IMPROVE THE NUTRITIONAL MODEL OF CHILDREN IN A PRESCHOOL INSTITUTION IN ROMANIA M.V. Zerbes, F. Brudea, L.G. Popescu, A. Olteanu	5758
NEUROTECHNOLOGY AND ITS ETHICAL IMPLICATIONS FOR TEACHING AND RESEARCH IN DIVERSE EDUCATIONAL ENVIRONMENTS M.M. Capobianco-Uriarte, G.M. Marin Carrillo, J.M. Berbel Pineda, J.M. Ramírez Hurtado, M.P. Casado Belmonte	5765
DESIGN AND IMPLEMENTATION OF A WEB-BASED TOOL TO INTEGRATE NATURAL LANGUAGE FEEDBACK IN AUTOMATED ASSESSMENT R. Bimazubute	5769
MUSICAL MIRRORS AT GENERAL EDUCATION SCHOOLS IN POLAND – AN EXPERIMENTAL STUDY V. Cohen, G. Konkol, A. Kalarus	5775
A CASE STUDY APPROACH FOR IT HONOURS STUDENTS TO ENGAGE WITH CORPORATE ENVIRONMENTS REGARDING SOFTWARE DEVELOPMENT METHODOLOGIES L. Drevin	5776
PERSPECTIVES OF LEARNERS AND EDUCATORS REGARDING THE INCLUSION OF PREGNANT LEANERS IN MAINSTREAM EDUCATION P. Tsilo, A. Makura	5786
COMMUNITY INVOLVEMENT IN PUPILS' LEARNING IN RESPONSE TO COVID-19 CRISIS: A CASE OF AKU-IED EA'S INTERVENTIONS IN SOUTHERN TANZANIA, LINDI REGION	5787
N. Mrutu, F. Mtenzi, P. Kajoro, E. Kibga, J. Kova, H. Nkota, A. Hoka	

FOREST WITH CONNECTIONS TO BLOOM'S TAXONOMY OF COGNITIVE GOALS D. Kollárová, A. Nagyová	5796
PUPILS WITH DUAL EXCEPTIONALITY K. Jůzová, D. Jirotková	5802
PIVOTING ONLINE DURING COVID-19: LESSONS LEARNED INFORMING STELLENBOSCH UNIVERSITY'S HYBRID LEARNING STRATEGY A. Van Der Merwe, D. Ramjugernath	5807
TEACHING ABOUT FOREST – INNOVATIVE TEACHERS' EDUCATION AS A TOOL FOR PROFESSIONAL COMPETENCIES IMPROVEMENT D. Kollárová, A. Nagyová	5808
EVALUATING A QUALITY ASSURANCE INSTRUMENT IN THE ADVENT OF REMOTE TEACHING, LEARNING AND WORKING ENVIRONMENTS L.L. Lalendle, R. Tsephe, I. Naidoo	5816
COVID19 IMPACT ON ELEARNING AS AN ECOLOGICAL SYSTEM F. Chacon, J. Shaw	5824
IDENTIFICATION OF PREDICTIVE FACTORS FOR STUDENT FAILURE IN STEM ORIENTED COURSE V. Čotić Poturić, I. Dražić, S. Čandrlić	5831
THE IMPLEMENTATION OF SCHOOL FEEDING PROGRAM IN A CONTEXT OF FEE- FREE EDUCATION POLICY TO ENHANCE EARLY CHILDHOOD LEARNING: A CASE OF TWO PRIMARY SCHOOLS IN IRINGA MUNICIPAL, TANZANIA N. Mrutu, F. Mtenzi, H. Nkota, P. Kajoro, J. Kova, E. Kibga, A. Hoka	5838
OPEN EDUCATIONAL RESOURCES: USERS, PLATFORMS AND METADATA O. Gröblinger, J. Schindler, A. Parschalk	5847
INTERPROFESSIONAL EDUCATION FOR OCCUPATIONAL THERAPY, PHYSICAL THERAPY, AND CONSTRUCTION MANAGEMENT STUDENTS IN DEFINING HOME D. Todorov, C. Sunderlin, R. Panetta	5855
IMPLEMENTATION OF A MOOT TRIAL AS AN EXPERIENTIAL LEARNING FOR ENVIRONMENTAL ENGINEERS S. Todorova	5862
VALUED CHARACTER STRENGTHS OF A LEADER AS REFLECTED IN MILITARY TRADITIONS AND MEMOIRS O. Heřman, D. Ullrich	5863
ARTIFICIAL NEURAL NETWORK MODEL FOR FORECASTING STUDENT FAILURE IN MATH COURSE V. Čotić Poturić, A. Bašić-Šiško, I. Lulić	5872
INTERDISCIPLINARY TEACHING: A MONTESSORI APPROACH TO UNIVERSITY CLASS ASSIGNMENTS P.J. Cuadros Solas, M. Fernandez-Moya, A. Álvaro, C. Salvador Muñoz	5879
TEACHING OBJECT ORIENTED PROGRAMMING: PROGRAMMING LANGUAGE CHALLENGE D. Krpan, S. Mladenović, G. Zaharija	5880
FEEDBACK STRATEGIES FOR A SOCCER TRAINING SCENARIO IN VIRTUAL REALITY A. Lozano-Tarazona, D.M. Rivera Pinzón	5888
DEVELOPMENTAL CONSIDERATIONS FOR DIGITAL PLATFORMS: EFFECT OF PERCEPTUAL BACKGROUNDS ON COGNITIVE TASK ENGAGEMENT C. Habak, I.M. Santos, K. Sung, M.L. Woolsey, M.L. Seghier, M.A. Fahim, M. Melkonian	5894
THE IMPACT OF SELECTED FACTORS ON STUDENTS' TEST SCORES DURING INTEGRATION OF ENGLISH LANGUAGE INTO MATHEMATICS LESSONS J. Wossala, E. Kočařová	5895
UNIVERSITY-INDUSTRY COLLABORATION IN AN OPEN INNOVATION PERSPECTIVE: RESULTS FROM A BIBLIOMETRIC AND KEYWORDS ANALYSIS B. Bigliardi, V. Dolci, S. Filippelli, A. Petroni, B. Pini, L. Tagliente	5904
DEVELOPMENT OF PUPILS' MATHEMATICAL LITERACY OUTSIDE THE REGULAR CLASSROOM FROM THE PERSPECTIVE OF STUDENTS OF PEDAGOGICAL DISCIPLINES J. Wossala, I. Mrňová	5913

CREATIVITY IS YOUR LIFELINE: THE HEALTH OF A NATION M.S. Rogers, J.P.D. Rogers	5921
A "SKETCHY PEOPLE" VIRTUAL WORKSHOP FOR CREATIVITY AND DESIGN THINKING W. Genereux, D. Satterfield	5927
TEACHING SEARCH ALGORITHMS FOR DIFFERENT AGE GROUPS IN ELEMENTARY SCHOOL G. Zaharija, M. Laća, S. Mladenović, D. Krpan	5935
VISUAL COMFORT FROM LIGHTING PERSPECTIVE IN WORK-FOCUS LEARNING' INTERIOR ENVIRONMENT N. Sami Abdelaziz Mahmoud	5942
INNOVATIVE START-UPS: THE HUMAN ROLE WITHIN AN OPEN INNOVATION APPROACH B. Bigliardi, V. Dolci, S. Filippelli, A. Petroni, B. Pini, L. Tagliente	5950
RED PAZ UNAL OR AN ORGANIZATIONAL TRANSFORMATIONAL LEARNING STRATEGY TO SUPPORT TERRITORIAL PEACE IN COLOMBIA FROM WITHIN THE UNIVERSITY D. Santos	5951
MANAGEMENT OF ACTIVE FAMILY - SCHOOL COLLABORATIVE PARTNERSHIP A. Klimentova	5952
UNIVERSITY PATENTING IN AN OPEN INNOVATION ECOSYSTEM B. Bigliardi, V. Dolci, S. Filippelli, A. Petroni, B. Pini, L. Tagliente	5960
PARENTS AND THE FLIPPED CLASSROOM APPROACH IN K-12 TEACHING M. Loizou	5970
THE INCORPORATION OF THE GENDER PERSPECTIVE IN THE TEACHING OF ARCHITECTURE M.I. Alba Dorado	5979
COMBAT MODEL SITUATIONS AS A DIDACTIC TOOL IN A VIRTUAL ENVIRONMENT M. Novák, D. Ullrich, J. Stříbrný	5986
COMBATING CYBERBULLYING AT THE UNIVERSITY T. Fisenko, R. Segol, O. Baliun, O. Husak	5987
TEACHING TRANSMEDIA COMMUNICATION THROUGH WEB SERIES: A FRAMEWORK TO APPLY AT CLASSROOMS M. Cappelletti	5994
STUDENTS' ATTITUDES ON SOCIAL RESPONSIBILITY AS BUILDING BRICKS IN THE IMPROVEMENT OF ENTREPRENEURIAL EDUCATION B. Hegyi	5995
IMMEDIATE EFFECTS OF NUTRITION ON COGNITIVE FUNCTION UNDER STRESSFUL CONDITIONS; IMPLICATION FOR CIVILIAN AND MILITARY STUDENTS J. Stříbrný, D. Mac Gillav, D. Ullrich	6004
THE EFFECTIVENESS OF TEACHING COGNITIVE EMOTION REGULATION STRATEGIES ON REDUCING AGGRESSION IN A ROMANIAN DELINQUENT POPULATION: A PILOT STUDY L.M. Sabareanu, C.E. Oprea	6005
LEARNING-BY-CODING – CHALLENGES AND EXPERIENCES IN ESTABLISHING A CODING LAB FOR CHILDREN E. Krainz, H. Schwab, F. Niederl, K. Kotal	6010
COMPREHENSIVE MODEL IN DIGITAL PLATFORMS EDUCATION M. Zagar, K. Soric, N. Anticic, B. Mihaljevic	6016
MACHINE TRANSLATION AS AN AID FOR WRITING BY COMPUTER SCIENCE UNIVERSITY STUDENTS J.M. Arriola	6023
IMPROVING ATTITUDES TOWARD MATHEMATICS THROUGH GAMIFICATION E.G. Rincon-Flores, D. Velarde-Camaqui, B. Santos-Guevara, N. Rodríguez-Rodríguez, H. Quintana- Cruz, A. Matsuura-Sonoda	6028
INNOVATIVE START UPS, DIGITALIZATION AND OPEN INNOVATION: A REVIEW OF THE LITERATURE R. Rigliardi, V. Dolei, S. Filippelli, A. Petropi, R. Pini, I. Tagliente	6033

FACE DRAWING: AN EXPERIMENTAL APPROACH TO DISTANCE LEARNING USING OPEN EDX	6040
F. Antunes, P. Ferreira, H. Gallo, M. Tognon, H. Mendes Pereira	
CREATIVITY AND DESIGN THINKING FOR STUDENT PROJECTS D. Skokanová, P. Fanta	6048
HOW DO ADOLESCENTS EVALUATE POSTS ON INSTAGRAM? MEDIA AND INFORMATION LITERACY IMPLICATIONS FOR LEARNING FROM SOCIAL MEDIA M. Papageorgiou, E. Kyza	6053
THE IMPORTANCE OF FOREIGN LANGUAGE SKILLS FOR UNIVERSITY GRADUATES CONCERNING SUCCESSFUL EMPLOYMENT ON THE LABOUR MARKET A. Klimentova, K. Klimentova	6054
THE SILVER LINING OF COVID-19: LOCKDOWN AS A WAY-UP. ACADEMIC PROJECT PRODUCTIVE ACTIVITIES AT THE JAPANESE STUDIES DEPARTMENT, SOFIA UNIVERSITY IN UNPRECEDENTED TIMES S. Zhivkova, G. Petkova, V. Nikolova, M. Dimitrov	6061
ASYNCHRONOUS ONLINE LEARNING ACTIVITIES IN ENGINEERING DEGREE APPRENTICESHIPS: A CASE STUDY S. Fieldhouse, F.H. Villa-Lopez	6069
FUTURE OF WORK IN TELECOMMUNICATION SECTOR: CHALLENGES FOR EDUCATION AND TRAINING R. Preglej Garić, D. Tipurić, A. Aleksić	6079
APPLICATION OF ANTCONC FOR DATA EXTRACTION BY UNDERGRADUATE STUDENTS OF ENGLISH STUDIES. A STEP TOWARDS DIGITAL HUMANITIES Z. Vincela	6087
THE DIVERSE PHILOSOPHY OF EXHIBITION DESIGN AS A DEVELOPMENT OF THE INTERIOR DESIGN CURRICULUM G. Elsayed Ali Elsamanoudy	6095
ON A BALANCE BETWEEN CLASSICAL MATHEMATICAL STUDY AND CONTEMPORARY TENDENCIES IN HIGHER EDUCATION FOR ENGINEERING STUDENTS	6103
I. Dzenite, E. Ligere, S. Cernajeva, T. Kabisa	
FACTORS INFLUENCING THE FINANCIAL LITERACY OF YOUNG PEOPLE – STUDY FROM THE CZECH REPUBLIC D. Kubíčková, V. Nulíček, I. Jindrichovska	6111
POTENTIAL OF 3D AND 4D SIMULATION AS EDUCATIONAL RESOURCES TO OPTIMISE THE DESIGN, IMPLEMENTATION, AND CONTROL OF CONSTRUCTION SAFETY MANAGEMENT PLANS A. González, M.E. Bulla-Ruiz, E. Cortés-Paez, A. Bustos, N. Escobar	6112
THE CHAOS AND CATASTROPHIC IMPACT OF COVID-19: EXPLORING EDUCATIONAL INSIGHTS THROUGH BRAZILIAN AND UK INTERNATIONAL COLLABORATION M.S. Rogers, A. Grunewald Nichele	6122
SUSTAINABLE DEVELOPMENT GOALS FROM UNIVERSITY TO HIGH SCHOOL: A CASE OF SERVICE-BASED LEARNING C. López, S. García-Marco, F. Revuelta, P. Almendros-Garcia	6128
DECONTEXTUALIZATION OF BODY PERCEPTION IN MODERN SOCIETY: EXPRESSION OF FACTORS FROM THE PERSPECTIVE OF BIOPEDAGOGY A. Laužonytė	6137
ACADEMIC LITERACY AS STRATEGY AGAINST SCIENTIFIC FAKE NEWS J. Brasil Lopes, A. Graziela Gomes Travassos, V. Marília Lima Guida, K. Gomes Lima, J. Ramires Rodrigues Silva, M. Martínez de Lucena, J. Mesquita Vidal Martínez de Lucena	6142
ASSESSMENT OF SKILLS TO FACILITATE THE LEARNING OF READING AND WRITING: A STUDY IN THE 1ST YEAR OF SCHOOLING IN THE CONTEXT OF THE COVID-19 PANDEMIC	6149
P. Fortunato Vaz, V. Gonçalves, C. Teixeira	
TOWARD A MODEL FOR PRACTICING CULTURALLY AND LINGUISTICALLY RELEVANT TEACHING: A REVIEW OF RESEARCH-BASED TEACHING METHODS <i>H. Hamza</i>	6154
WORK-LIFE CONFLICT: PERCEPTIONS OF FEMALE ACADEMICS DURING COVID-19 C. Araneda Guirriman. G. Senúlveda Páez.	6155

PREFERENCES OF DISCUSSION AND LECTURE IN REMOTE, ONLINE, AND FACE-TO- FACE LEARNING DURING COVID AMONG GRADUATE AND UNDERGRADUATE NURSING STUDENTS A. Bowser, M. Kazakoff, E. Moon, B. Kameg, J. Dunbar-Jacob	6160
IDEALISM OR CRISIS MANAGEMENT? CHALLENGES OF POLICY MAKING IN EDUCATION DURING REFUGEE CRISIS IN TURKEY E.S. Demir	6161
FROM FACE TO FACE LEARNING TO REMOTE LEARNING AND BACK (TO THE FUTURE) G. Goldenberg	6162
GRAPHIC DESIGN AND SCIENTIFIC DISSEMINATION OF THE THEORIES OF THE MOLECULAR ORIGIN OF LIFE (PANSPERMIA AND ENDOSYMBIOSIS) A.M. Rizo Rubalcava, M.M. Arellano Lara, R.J. Tovilla Quesada, G.C. Carrillo Alejo, M.A. Villarreal	6167
Gutiérrez, A.M. Madrigal González MANAGING THE PEOPLE SIDE OF COLLABORATIVE PROJECT WORK	6172
I. Mikhailova, N. Barley THE IMPACT OF DIGITAL HUMANITIES AND THEIR METHODOLOGY ON THE EFL AND LITERARY STUDIES IN THE SLOVAK CONTEXT: A META-ANALYSIS OF THE RESEARCH STUDIES Z. Sucháňová	6177
MODERN INFORMATION, COMMUNICATION AND EDUCATIONAL TECHNOLOGIES IN TEACHER TRAINING V. Stoffová, J. Obonya	6182
APPLICATION OF THE SPARKPLUS TOOL IN LABORATORY CLASSES: A CASE STUDY OVER TIME J. Tudella, C. Santos	6189
KNOWLEDGE MANAGEMENT AS CONTRIBUTION TO INNOVATION IN THE PUBLIC SECTOR C. Gjellebæk	6197
TEAMS AND GROUPS IN PHYSICAL ACTIVITY: INFORMAL LEARNING PROMOTING LIFE SATISFACTION N. Codina, R. Valenzuela, J.V. Pestana	6198
DESIGN AND CREATION OF DIGITAL ENVIRONMENTS TO FAVOR EDUCATIONAL PROCESSES IN THE 4.0 CLASSROOM A.M. Rizo Rubalcava, M.M. Arellano Lara, R.J. Tovilla Quesada, M.G. Carrillo Alejo	6203
INTRODUCTION TO QUANTUM PHYSICS AND USE OF WAVE OPTICS ANALOGY BASED ON CURRENT LEARNING THEORIES L. Bartosovic, P. Demkanin, R. Bohm	6204
ICONIC AND BLOCKS PROGRAMMING FOR TEACHING PROGRAMMING BASICS FOR PRIMARY SCHOOL PUPILS V. Stoffová, M. Zboran, V. Gabaľová	6212
COVID 19 AND EMERGENCY REMOTE TEACHING: A COMPARATIVE EXPLORATORY STUDY IN PORTUGUESE AND BRAZILIAN HIGHER EDUCATION D. Franco, M.M. Fonseca, M.N. Gonçalves, F. Duarte, M. Araújo	6222
PROJECT-BASED LEARNING (PBL): APPLICATION OF ACTIVE METHODOLOGY IN THE ELECTRONIC WASTE INTEGRATION PROJECT	6227
I. Rodrigues de Souza Fausto, A. Alves, F. Rodrigues Leta, R.M. Mariani Braz A PRACTICE ACCEPTANCE MODEL BEYOND TECHNOLOGY WHEN PROGRAMMING AND MATHEMATICS CONVERGE A. Fuentes Martinez	6228
DIGITAL LITERACY IN TIMES OF PANDEMIC. WHAT LEARNING? AN EXPLORATORY STUDY WITH SECONDARY SCHOOL STUDENTS E. Santo, M.M. Fonseca, M.N. Gonçalves	6238
INITIAL AND CONTINUING TRAINING COURSE IN EDUCATIONAL ROBOTICS IN BASIC EDUCATION I. Rodrigues de Souza Fausto, F. Rodrigues Leta, R.M. Mariani Braz	6239
LEARNING ABOUT THE INFLUENCE OF DEMOGRAPHIC FACTORS ON THE EMERGING MATERIALS DESIGN PROCESS J. Alarcón, J. Brañes Alarcón, J. Brañes Alarcón	6240

THE MIT D-LAB PARTICIPATION TOOLKIT: A SUITE OF TOOLS FOR UNDERSTANDING, CHARACTERIZING AND IMPLEMENTING PARTICIPATION IN DEVELOPMENT AND HUMANITARIAN CONTEXTS A. Smith, M. Thompson	6245
ECO-INNOVATIVE SOLUTIONS BASED ON ACADEMIC RESEARCH PROJECTS J. Alarcón, J. Brañes Alarcón, J. Brañes Alarcón	6255
INTELLECTUAL PROPERTY AND AMERICAN HIGHER EDUCATION: AN ANALYSIS OF INTELLECTUAL PROPERTY UNITS AT SELECTED R1, R2, AND R3 INSTITUTIONS N. Brown, T. Clark, H. Aubrey, K. Anderson, T. Jordan, D. Hill-Eley, H. Swanson, E. Cameron	6261
SAFEGUARDING STUDENT MENTAL HEALTH: MINDFUL ASSESSMENTS FOR ART HISTORY SURVEYS DURING COVID H. McCune Bruhn	6267
BEYOND TECHNICAL SKILL: AUGMENTING STUDENT LEARNING THROUGH PLACE-BASED PEDAGOGY J. Walker	6272
CHALLENGES OF GOING BACK TO CLASS AFTER THE PANDEMIC D. Morin, H. Al Maleh, J. Mondragon	6273
TRAINING GRADUATE STUDENTS IN CO-CREATION TOOLKIT TO EXPAND PARTICIPATION IN THE HUMANITARIAN SECTOR M. Thompson, A. Smith, K. Leith	6280
A STRATEGY FOCUSED ON THE SOCIAL, EMOTIONAL AND MENTAL HEALTH OF STUDENTS I. Pkhakadze, T. Kordzadze, R. Gvenetadze, M. Sturua	6281
THE PERSISTENCE OF VACCINATION HESITANCY: AN ANALYSIS OF THE INFLUENCE OF SOCIAL DETERMINANTS AMOUNG AFRICAN AMERICAN FAMILIES AND YOUTH	6282
T. Clark, N. Brown, H. Aubrey, K. Anderson, T. Jordan, D. Hill-Eley, H. Swanson, E. Cameron PERFORMANCE EVALUATION IN SPECIALIZED TRAINING TOOL FOR SMES' EMPLOYEES E. Mitan	6292
INTEGRATING FLOW THEORY IN FREIREAN PEDAGOGY BASED WORKSHOPS FOR FORMATIVE ASSESSMENT W. Mahfouz, H.D. Wuttke	6299
DEVELOPMENT OF A NEW COMPETENCE FRAMEWORK FOR AN "INNOVATION MANAGER +" U. Kaschka, J. Kirch	6310
CALIBRATING THE NEW NORMAL IN ACADEMIC EDUCATION - HOW DIFFERENT GROUP WORK METHODS CAN BE USED EFFECTIVELY IN VOLATILE ENVIRONMENTS J. Kirch	6317
AGGIORNAMENTI: A PROJECT FOR THE TRAINING OF JUNIOR HIGH SCHOOL TEACHERS	6325
V. Fanti, A. Embriaco, G. Cibinetto, G. Signorielli, G. Tagliente, I. Postuma, L. Servoli, M. Tuveri, M. Andreotti, N. Protti, S. Zavatarelli, S. Marcellini, S. Bertelli, A. Beraudo	
FACTORS THAT PROVOKE BURNOUT OF ARCHITECTURE STUDENTS AT UNIVERSIDAD JUÁREZ AUTÓNOMA DE TABASCO	6331
S.G. Gomez Jimenez, A.C. Lizardo Perez, R. Rodriguez Bastarmerito, A.R. Pulido Tellez, F.J. Martinez Romero	
CULTURAL CENTER FOR INDIGENOUS LANGUAGES: EDUCATION FOR THE CARE OF THE NATIONAL CULTURAL AND LINGUISTIC HERITAGE A.C. Lizardo Perez, S.G. Gomez Jimenez, A.R. Pulido Tellez, F.J. Martinez Romero, R. Rodriguez Bastarmerito	6338
TACIT KNOWLEDGE YIELDING TO EXPONENTIAL FUNCTION AT LOWER SECONDARY SCHOOL SCIENCE L. Bartosovic, P. Demkanin, A. Slovak	6344
LEARNING OUTSIDE THE SCHOOL, LEARNING BEYOND THE CURRICULA: THE LEARNING EXPERIENCE OF STUDENTS DURING THE COVID-19 EMERGENCY REMOTE SCHOOLING R. Cachia, A. Velicu, S. Chaudron, R. Di Gioia	6345

CONTRIBUTION OF ARTIFICIAL INTELLIGENCE IN LEARNING INDUSTRY P. Teodorescu, E. Mitan	6346
DEVELOPING ENVIRONMENTAL AWARENESS COMPETENCIES THROUGH A SENSORIAL ESCAPE ROOM J. Reuter, G. Mello, M. Ferreira Dias, M. Amorim	6357
RESPONSIBLE BIOSCIENCES: HOW ORGANIZATIONS IMPLEMENT EDUCATIONAL ACTIONS D. Elster	6366
DEVELOPING THE INDIVIDUALIZED LEARNING ENVIRONMENT IN FOREIGN LANGUAGE STUDY PROGRAMMES THROUGH MULTIMODAL STUDY SUPPORT S. Pokrivcakova	6375
DIGITAL MULTIMODAL COMPOSITIONS IN FOREIGN LANGUAGE TEACHER TRAINING S. Pokrivcakova	6376
THE DIGITAL COMPETENCE OF THE UNIVERSITY PROFESSOR: A SYSTEMATIC REVIEW E. Flores	6377
PROGRAM TO RAISE AWARENESS OF ETHICAL BEHAVIOR THROUGH THE USE OF TECHNOLOGICAL MEDIA S. Montañez, E. Flores	6387
THE VALUE OF BICHRONOUS ONLINE FACILITATION TO PROMOTE STUDENT ENGAGEMENT IN A TEACHER EDUCATION COURSE R. Best	6393
AI BASED GESTURE AND SPEECH RECOGNITION TOOL FLOW FOR EDUCATORS H. Hübert, V. Taliaronak, H.S. Yun	6395
ARCHITECTS NOT ILLUSTRATORS DESIGN-BUILDS AS PEDAGOGICAL SYNTHESIS J. Kroft, L. De Bartolo, J. Levy, A. Weiss, V. Hui	6401
VALUING AND DECISION MAKING IN THE CONTEXT OF EDUCATION FOR SUSTAINABLE DEVELOPMENT M. Ternieten, D. Elster	6410
THE EFFECT OF INTERNET ADDICTION ON SOCIAL AND EMOTIONAL LONELINESS IN UNIVERSITY STUDENTS G. Sart, F.H. Sezgin	6420
ANALYSIS OF UNIVERSITY STUDENTS' PERCEPTIONS OF INNOVATIVENESS IN TERMS OF ENTREPRENEURSHIP LEVELS G. Sart, F. H. Sezgin	6427
DEVELOPING EDUCATIONAL LEADERSHIP IN THE CONTEXT OF LIBERAL ADULT EDUCATION – FINNISH CONTEXT L. Snellman	6435
THE CULTURAL QUOTIENT SCALE: IN SEARCH FOR A CONSISTENT PREDICTOR OF ACADEMIC PERFORMANCE J.C. Del Ama, M. Mealy, Y. Kim	6447
I'M A MILLIPEDE I'M DIFFERENT SO WHAT? - A PROPOSAL FOR TEACHING AND LEARNING STATISTICS H. Campos, A. Matos, S. Ricardo	6454
THE PERCEPTIONS OF SCHOOL TEACHERS ON THE IMPACT OF E-LEARNING AND PSYCHO-EMOTIONAL TOOLS AND METHODOLOGIES IN THEIR TEACHING PRACTICE: THE D-MANED ERASMUS+ PROJECT D. Vlachopoulos, K. Kronenberg, M. Kokota, V. Grigoras, M. Namolosanu	6461
PROSPECTIVE MATHEMATICS TEACHERS' TPACK IN PLANNING LESSONS INTEGRATING TECHNOLOGY: A CONTEXT OF AN INITIAL TEACHER EDUCATION EXPERIMENT A. Henriques, R. Winicius da Silva Bueno	6469
PRIMARY SCHOOL TEACHERS' VIEWS ON TRANSLANGUAGING IN THE ENGLISH AS A FOREIGN LANGUAGE CLASS IN VALENCIAN SCHOOLS A. Cerveró-Carrascosa, C. Baenas Roig, C. Gómez-Lobo	6474
USING PROBLEM POSING AS A MEANS TO ASSESS STUDENTS' UNDERSTANDING OF COMBINATORIAL OPERATIONS R. Tomás Ferreira, M. Monteiro	6480

USING SPREADSHEETS AND MONTE CARLO SIMULATION TO TEACH CRITICAL PATH ANALYSIS AND PROGRAM EVALUATION AND REVIEW TECHNIQUES IN PROJECT MANAGEMENT F. Arteaga, M. Pérez-Bermejo, A. Cloquell, C. Moret	6490
WHAT SOFTWARE ENGINEERS NEED TO KNOW ABOUT UX DESIGN – EXPERIENCES FROM ONE DECADE OF TEACHING R. Pucher	6498
TRANSFORMING THE HIGHER EDUCATION LANDSCAPE IN SOUTH AFRICA: THE ROLE OF PRIVATE HIGHER EDUCATION INSTITUTIONS B. Van Wyk, W. Engelbrecht	6499
FUTURE EDUCATION DEVELOPMENT Y. Alhammadi	6507
A CONCEPTUAL FRAMEWORK FOR DESIGNING IMAGE-BASED VIRTUAL FIELD TRIP IN GEOLOGY TEACHING D.R. Awang Rambli, S. Sulaiman, S. Basri, A.I. Zainal Abidin, S. Mahamad, A.S. Mat Saad	6508
INTERDISCIPLINARITY FOR FUTURE-ORIENTED EDUCATION: INSIGHT FROM EDUCATIONAL RESEARCH IN ENGLAND S. Erduran, J. Chan	6509
ENVELOPES OF SCIENCE AWESOMENESS: AN OPPORTUNITY TO SUPPORT ELEMENTARY TEACHERS AND STUDENTS DURING COVID-19 DISTANCE LEARNING P.C. Pinner, J. Ray	6510
MAPPING THE CHALLENGES OF UNDERGRAD ARCHITECTURE STUDENTS APPLYING SHAPE GRAMMAR INTERPRETERS TO GENERATE CHINESE LATTICE DESIGNS	6519
M. Sedrez, Z. Li, J. Zhang, X. Liu, Y. Ma, J. Yao, Z. Sun, T. Shao, G. Godoi ARCHITECTURE GRADUATES' EMPLOYABILITY: THE CASE OF A BRITISH UNIVERSITY IN CHINA M. Sedrez	6529
LEARNING BY PLAYING: INNOVATIVE METHODS OF LEARNING AND DISSEMINATION OF CULTURAL HERITAGE A. Bertini, T. Vitolo	6536
A BREATHING EXERCISE WITH THE HUMANOID ROBOT NAO DESIGNED TO REDUCE STUDENT STRESS DURING CLASS: RESULTS FROM A PILOT STUDY WITH STUDENTS IN HIGHER EDUCATION I. Buchem, E. Thomas	6545
SUSTAINABLE MOBILITY ANALYSIS AND PROPOSAL FOR THE BISCAY CAMPUS I. Alvarez Gonzalez, E. Alberdi Celaya	6552
USING RELATIVE GRADING FOR REMOTE ONLINE EXAMINATIONS DURING COVID- 19 PANDEMIC C. Chiruta, M. Calin	6553
TECHNOLOGICAL TOOLS FOR EDUCATION IN TIMES OF PANDEMIC: A STUDY OF ACCEPTANCE AND USER EXPERIENCE IN ITALIAN SCHOOLS D. Agostini, E. Murgia	6559
BENCHMARK OF THE GENERIC SKILLS OF THE ENGINEERING DEGREES AT THE UNIVERSITY OF ALMERIA E. Salmerón-Manzano, A. Alcayde-García, A. Zapata-Sierra, F. Manzano-Agugliaro	6567
GENERIC SKILLS ASSESSMENT IN THE MEDICINE DEGREE AT UNIVERSITY OF ALMERIA	6577
E. Salmerón-Manzano, G. Castro-Luna, B. Nievas-Soriano, A. Alcayde-García, A. Zapata-Sierra, F. Manzano-Agugliaro	
THE EFFECT OF CHANGES IN THE MODE OF TEACHING AND LEARNING AT UNIVERSITY FIRST YEAR LEVEL ON STUDENTS ATTITUDE AND BELIEFS ABOUT PHYSICS P. Molefe, M.P. Rankhumise	6586
REMOTE CARE: CURRICULUM DEVELOPMENT TO TEACH TELEHEALTH COMPETENCIES THROUGH CINEMEDUCATION G. Gonzalez-Caminal, C. Gomar-Sancho, J. Pique-Buisan, I. Cambra-Badii	6587
DEVELOPING MATHEMATICAL MEANING THROUGH DISCOURSE IN DIFFERENT SOUTH AFRICAN MULTILINGUAL TEACHER EDUCATION CONTEXTS A. Essien	6588

A NEW INFORMATION TECHNOLOGY EDUCATION METHOD INTRODUCING JAPANESE NATIONAL CERTIFICATE INTO UNIVERSITY CURRICULUM IN DEVELOPING COUNTRY Y. Mivamoto	6589
SUPPORTING TEACHERS' PROFESSIONAL SELF-AWARENESS WITH BIBLIOTHERAPY METHODS N. Birta Szekely	6598
CAREER RESOURCES IN HIGHER EDUCATION: CHARACTERIZATION AND DIAGNOSIS OF PSYCHOEDUCATIONAL NEEDS S. Monteiro, F. Seabra, S. Santos, L. Almeida	6606
EMPOWERING STUDENTS IN THE ASSESSMENT AND FEEDBACK OF WORK-INTEGRATED LEARNING: KEY STAKEHOLDER VIEWS G. O'Neill	6612
IMPORTANCE OF ENJOYMENT AND BEHAVIOURAL CONTROL WHEN ACQUIRING LEARNING TO LEARN COMPETENCE IN MARKETING UNDERGRADUATES E. González-Gascón	6619
UNDERSTANDING GENDER DIFFERENCES IN THE PERCEPTION OF THE RELATION BETWEEN ALUMNI & THEIR UNIVERSITY P. Martinez Hague, A. Macarachvili, M. Lau	6626
THE AGRICULTURAL ENGINEERING DEGREE AT UNIVERSITY OF HUELVA: TRANSVERSAL SKILLS ASSESSMENT A. Zabalo Torrejón, E. Salmerón-Manzano, F. Manzano Agugliaro	6636
TRANSVERSAL SKILLS ASSESSMENT OF THE ENVIRONMENTAL SCIENCES DEGREE AT UNIVERSITY OF HUELVA A. Zabalo Torrejón, E. Salmerón-Manzano, F. Manzano Agugliaro	6644
IMAGE EDUCATION BETWEEN DISTANCE AND PRESENCE: REFLECTIONS ON THE EXPERIENCE OF THE THREE-YEAR PANDEMIC F. Zuccoli, A. De Nicola	6652
MAPS MI: FIRST RESULTS OF A PARTICIPATORY SCIENCE PROCESS TO ACTIVATE THE EDUCATING COMMUNITY OF A SUBURB AGAINST BLACK CARBON F. Zuccoli, A. De Nicola	6659
STUDENTS' MENTAL HEALTH AND TEACHER SUPPORT DURING THE COVID-19 PANDEMIC D. Paić, J. Kudek Mirošević	6667
FEAR OF MISSING OUT (FOMO) IN HIGHER EDUCATION: AN EXPLORATORY PERSPECTIVE FROM CENTENNIALS IN SPAIN L.M. Cerdá Suárez	6672
REDESIGNING COLLEGE-LEVEL TEACHING AND CLASSROOM MANAGEMENT FOR POST-PANDEMIC EDUCATION M. Ben Ghalia	6680
DEVELOPMENT OF A MOBILE APPLICATION FOR THE PERSONALITY ASSESSMENT OF STUDENTS UNDER THE MANAGEMENT OF THE KEDAH STATE ZAKAT BOARD (LZNK), MALAYSIA A. Md Hashim	6685
SUBJECTIVELY PERCEIVED PREPAREDNESS OF PRE-SERVICE VOCATIONAL SUBJECT TEACHERS FOR PROVIDING SECOND CHANCE EDUCATION S. Barnová, L. Hasajová, L. Pasternáková, G. Gabrhelová, S. Krásna	6693
DESIGN THINKING AS A METHOD FOR THE STUDENTS SOFT SKILLS TRAINING B. Boorova, V. Orfánusová, R. Ševčíková	6700
VIDEOS OF MADRID BRIDGES RECORDED BY STUDENTS, EDUCATION FOR CITY AND HERITAGE J. Bernabéu-Larena, P. Hernández-Lamas, B. Cabau-Anchuelo	6706
COLLABORATIVE CARTOGRAPHIES OF LINEAR PUBLIC WORKS, EDUCATION FOR TERRITORY AND LANDSCAPE B. Cabau-Anchuelo, P. Hernández-Lamas, J. Bernabéu-Larena	6716
DEVELOPMENT OF STUDENTS' SOCIO-CULTURAL COMPETENCE THROUGH THE USE OF AUTHENTIC MATERIALS E. Chelpanova, F. Rystray, V. Moshkovich, F. Zakirova, A. Shabalina	6725

THE QUALITY OF UNDERGRADUATE VOCATIONAL SUBJECT TEACHER TRAINING IN THE CONTEXT OF THE COVID-19 PANDEMIC S. Barnová, S. Krásna, L. Hasajová, G. Gabrhelová	6732
THE EFFECTS OF ENGLISH CONVERSATION LESSONS IN VIRTUAL REALITY ON THE CONFIDENCE OF JAPANESE LEARNERS OF ENGLISH Y. Satake, S. Yamamoto, H. Obari	6737
ACQUISITION OF DIGITAL SKILLS OF UNIVERSITY TEACHERS: A MASSIVE EXPERIENCE M. Sempere, F. Fernández	6745
DEVELOPING EFFECTIVE ANDRAGOGY-BASED EDUCATIONAL ENVIRONMENT FOR ADULT LEARNERS OF FOREIGN LANGUAGES M. Bolina, K. Bolshakova, L. Naumenko, I. Orlova, E. Shmidt	6750
FLIPPED CLASSROOM IN THE CONTEXT OF METHODS OF TEACHING ENGLISH STUDY	6754
M. Bolina, K. Bolshakova, L. Naumenko, I. Orlova, E. Shmidt USING AR FEATURED COURSES COMBINED WITH ENVIRONMENTAL FILM TEACHING TO PROMOTE ENVIRONMENTAL AWARENESS AND PROTECT THE EARTH S.T. Wei	6758
ASSESSING LEARNERS' WRITING DEVELOPMENT: THE ROLE OF FORMATIVE FEEDBACK IN THE WRITING PROCESS N. Mather	6766
SCAFFOLDING LEARNING DURING THE STAGES OF THE WRITING CYCLE: THE IMPACT OF THE TEACHING STRATEGIES THAT TEACHERS ADOPT N. Mather	6773
CHILDREN'S AGENCY: DIFFERENT PERSPECTIVES THROUGH A LITERATURE REVIEW L. Luini	6781
THE PEDAGOGICAL INTERNSHIP DURING THE LOCKDOWN: NARRATIVES OF FUTURE TEACHERS I. Freire-Ribeiro, E. Mesquita, A. Sanches	6788
ENTREPRENEURSHIP AS A FUNDAMENTAL TRANSVERSAL COMPETENCE IN FIRST-YEAR STUDENTS OF THE DEGREE IN CHEMISTRY	6796
C.J. Pelegrín Perete, M.J. Mendoza Castro, J.J. Delgado Marín, A. García Juan, C. Gómez Pertusa, D. Torregrosa Carretero, N.O. Grané Teruel, A. Jiménez Migallón, A. Juan Polo, A.C. Mellinas Ciller, I. Solaberrieta Gonnet, J.J. Villora Picó, P. Romero Navarro, M.C. Garrigós Selva	
PROMOTING CULTURAL DIVERSITY(IES) WITH CHILDREN: ACCOUNTS OF LEARNING EXPERIENCES IN THE EDUCATION CONTEXT I. Freire Ribeiro, E. Mesquita, A. Sanches, C. Pimentel	6804
BRIDGING THE GAP BETWEEN THE NEW ARTIFICIAL INTELLIGENCE CAPABILITIES AND THE SKILLS OF JOURNALISTS IN DIGITAL MEDIA 1. Otero	6809
TOWARDS THE NEW EDUCATIONAL PARADIGMS IN THE 5TH WAVE OF ARTIFICIAL INTELLIGENCE: A FOCUS ON JOURNALISM 1. Otero	6815
USE OF AN ONLINE SELF-LEARNING TOOL BEFORE AND DURING THE COVID 19 PANDEMIC IN MARKETING UNDERGRADUATES E. González-Gascón	6820
THE WORKPLACE DISCRIMINATION OF WOMEN IN LEADERSHIP: A CASE OF WATERBERG DISTRICT IN LIMPOPO PROVINCE S.J. Madela, T. Ngobeni, I. Phage	6827
DEVELOP COMPUTATIONAL THINKING SKILLS FROM ARTIFICIAL INTELLIGENCE CONCEPTS IN SECONDARY EDUCATION 1.C. Muñoz, J.C. Giraldo, J.C. Durango, A.M. Cordero	6834
IMPLEMENTATION OF THE "PIENSA-C" STRATEGY FOR THE DEVELOPMENT OF COMPUTATIONAL THINKING WITH ARTIFICIAL INTELLIGENCE IN SECONDARY EDUCATION	6842
J.C. Durango, A.M. Cordero, I.C. Muñoz, J.C. Soto Jimenez, J.C. Giraldo	

ENHANCING STUDENTS' MOTIVATION AND ACADEMIC RESULTS THROUGH INTERNATIONAL CYBERSECURITY COMPETITIONS B. Bordel, R. Alcarria, M.A. Manso, T. Robles	6848
INTERNAL FACTORS INFLUENCING THE INTENTION TO PARTICIPATE IN ONLINE LEARNING AMONG MALAYSIAN UNIVERSITY STUDENTS M.N. Mohd Noor, N.F.A. Mohd Nazri, W.M.A. Wan Abdul Rahaman, A. Abdul Aziz, N. Mohd Yasin	6855
BESPOKE ARCHITECTONICS: PRIORITIZING FABRICATION OVER VISUALIZATION V. Hui, S. Agma, J. Levy, A. Halanytska, H. Deng	6865
TOWARDS INCLUSIVE EDUCATION: ASSESSING READING SKILLS OF STUDENTS WITH SPECIAL EDUCATIONAL NEEDS I. Bilbokaitė-Skiauterienė, I. Kaffemanienė	6873
IMPACT OF ICT ON THE SATISFACTION OF UNIVERSITY STUDENTS A. Marín García, I. Gil-Saura, M.E. Ruiz-Molina, M. Bordian, R. Gil Saura	6883
PERCEPTION TOWARDS ICT AND SATISFACTION AS SEGMENTATION VARIABLES OF UNIVERSITY STUDENTS A. Marín García, I. Gil-Saura, M.E. Ruiz-Molina, R. Gil Saura, M. Bordian	6884
NURTURING EMPLOYABILITY USING STRUCTURED MENTORSHIP FOR TECH STUDENTS IN KENYA C. Mbogo, R. Waiganjo, A. Wasega, M. Nyaga	6885
ANALYSIS OF THE SUBJECT STARTING POINT AND ASPECTS FOR IMPROVEMENT BASED ON THE RESULTS OF THE STUDENT SURVEYS G. Gómez, P. Fernández, M. Martinez de Aguirre, H. González, S. Etxebarria, O. Pereira, A. Calleja, L.N. López de la Calle	6895
APPLICATION OF ACTIVE METHODOLOGIES IN THE DESCRIPTIVE SUBJECT OF 'MECHANICAL TECHNOLOGY' M. Martinez de Aguirre, G. Gómez, P. Fernández, H. González, S. Etxebarria, A. Calleja, L.N. López de la Calle	6901
INFORMATION AND COMMUNICATION TECHNOLOGIES SUPPORTING THE STANDARDISATION OF CREDENTIALS AMONG MOOC PROVIDERS S. Terzi, K. Zourou, I. Stamelos	6910
THE HEAD PROGRAMME IN NORTH MACEDONIA: PRINCIPALS BOOSTING INCLUSIVE SCHOOL POLICIES M. Veldin, A. Mlekuž	6920
INTERACTIVE DIGITAL STORYTELLING FOR A PLAYFUL AND ENGAGING SCHOOL EDUCATION: THE INTERACTED ERASMUS+ PROJECT P. Digkoglou, S. Falconi, E. Lykogianni, L. Profiri, D. Schina, D. Vlachopoulos	6926
FOSTERING DELIBERATION AND ENVIRONMENTAL SUSTAINABILITY COMPETENCES IN VET THROUGH CITIZEN SCIENCE S. Oikonomou, K. Zourou	6934
LET`S TALK ABOUT SEX - THE VIEWS OF TRANSYLVANIAN HUNGARIAN TEACHERS ON THE SEXUAL DEVELOPMENT AND EDUCATION OF CHILDREN N. Szállassy, N. Erős	6941
ADAPTATION OF FOREIGN STUDENTS TO THE NEW EDUCATIONAL ENVIRONMENT IN THE CHANGING SOCIO-ECONOMIC CONDITIONS IN THE NORTH OF RUSSIA P. Bessonov, N. Bessonova, V. Bessonova, A. Syrovatsky	6951
DEVELOPING HABITS AND SKILLS IN THE EDUCATIONAL PROCESS IN TERMS OF COMPLIANCE WITH THE WORK SAFETY PRINCIPLES M. Feszterova	6955
CHALLENGES OF EDUCATING FOR INNOVATION AND ENTREPRENEURSHIP: THE ROLE OF THE HIGHER EDUCATION INSTITUTIONS J. Miranda, G. Gonçalves, J. Reis	6963
CITIZEN SCIENCE AND ENVIRONMENTAL ORAL HISTORY IN CLIMATE EDUCATION: INTEGRATING THE USE OF A CITIZEN OBSERVATORY FOR BIODIVERSITY MONITORING IN A CLIMATE CHANGE EDUCATION PROJECT M. Daskolia, A. Trigatzi, J. Piera, S.M. Woods, P. Bonnet	6974
THE SELF-EFFICACY OF TRAINEE TEACHERS RECOMMENDED FOR QUALIFIED TEACHER STATUS (QTS) IN ENGLAND DURING THE COVID-19 PANDEMIC: LOOKING FOR EXPLANATIONS R. Tynan, A. Mallaburn	6984

GENDER-RELATED DYNAMICS OF STEM-RELATED BELIEFS, GENDER STEREOTYPES AND CAREER PREFERENCES IN ADOLESCENCE V. Ismatullina, T. Adamovich, I. Zakharov	6994
DUAL LANGUAGE AND TRANSLANGUAGING: PRACTICES PROMOTING STUDENT BILITERACY J. Villegas, C.R. Calderon-Diaz	7001
HOW DO RUMORS AND INFORMATION ABOUT RESULTS AND EXPERIENCES IN THE PAST AFFECT CURRENT STUDENTS' LEARNING? B. Bordel, R. Alcarria, T. Robles	7006
FROM RESEARCH TO PRACTICE: COMING TOGETHER TO BRIDGE THE GAP R. Tamim	7011
LEARNING A FOREIGN LANGUAGE REMOTELY DURING A PANDEMIC (EXPERIENCE FROM CROATIA) I. Mikulaco	7012
URBAN SHRINKAGE: LEARNING FROM DESSAU R. Davids	7020
THE SCHOOL – A SAFE ENVIRONMENT FOR CHILDREN. STUDY OF THE INTERACTION BETWEEN EDUCATIONAL AND SOCIAL INSTITUTIONS. QUALITY OF INTER-INSTITUTIONAL INTERACTION D. Angelova	7027
THE ROLE OF TEACHERS IN THE CONTEXT OF NEW TRENDS OF DIGITIZED AND PERSONALIZED EDUCATION S. Bellomo	7031
PROMOTION OF HEALTH LITERACY IN THE CONTEXT OF STEM CELL DONATION FOR LEUKAEMIA PATIENTS D. Elster, J. Holzer	7039
RESEARCH BASED LEARNING IN AGRICULTURAL ENGINEERING STUDIES J. Soler-Rovira, J.M. Arroyo-Sanz, L. Galvez-Paton, D. Palmero-Llamas, J. Novillo-Carmona, S. Garcia-Marco, D. Gonzalez-Rodriguez, P. Almendros-Garcia, A.F. Obrador-Perez, A. Arce-Martinez	7049
LEARNING STYLES AND RESEARCH BASED LEARNING IN ENGINEERING STUDIES J. Soler-Rovira, J.M. Arroyo-Sanz, L. Galvez-Paton, D. Palmero-Llamas, J. Novillo-Carmona, S. Garcia-Marco, D. Gonzalez-Rodriguez, P. Almendros-Garcia, A.F. Obrador-Perez, A. Arce-Martinez	7054
REFLECTIONS ON ONLINE LEARNING ECOSYSTEM IN ICE INSTITUTE P. Pannen, R. Dwi Riyanti	7058
PARTICULARITIES OF THE EDUCATIONAL PROCESS IN PENITENTIARY INSTITUTIONS (EXPERIENCE AND LEGISLATION OF THE REPUBLIC OF MOLDOVA) A. Nastas, S. Cernomoreţ	7068
THE POTENTIAL OF PSYCHOLOGICAL CAPITAL FOR PROMOTING WELL-BEING IN PRE-SERVICE AND IN-SERVICE TEACHERS: A RESEARCH-TRAINING PROJECT A. Crescentini, M. Pettignano, A. D'Amato, L. Sciaroni	7076
PAGARAMI, A NEW TOOL FOR SET UP YOUR OWN TV QUIZ IN CLASSROOM R.M. Pagán, C. Ramírez	7084
EDUCATIONAL INNOVATION IN INITIAL TEACHER TRAINING: AN EXPERIENCE BASED ON EXPERIENTIAL LEARNING R. Mateu Pérez, P. Escobedo Peiró, M. García Baldán, R. Flores Buils	7091
ART IN THE PROCESS OF INDUSTRIAL DESIGN S. Nuere Menéndez-Pidal, A. Castell López, L. de Miguel Álvarez, C. Alía García, M. Ruiz Gómez	7092
MOVING EXAM BOARD PROCESSES ONLINE - A CASE STUDY H. Neal	7102
LEARNING SCENARIOS IN SAFETY AT WORK IN THE SCOPE OF POLYTECHNIC HIGHER EDUCATION COURSES F. Silva, J. Ribeiro, P.M. Barros	7111
ENGAGING STUDENTS DURING THE PANDEMIC: THE UNIVERSITY OF MALAYA LIBRARY EXPERIENCE Z. Saupi Udin, R. Hisham	7116
CREATION OF VIDEOS BY STUDENTS AS A WAY TO PROMOTE LEARNING IN THE AREA OF MECHANICS: AN EXPERIENCE IN HIGHER EDUCATION L. Ribeiro, F. Silva, P.M. Barros	7124

FROM EASY COMMUNICATION TO DIFFICULT TEXTS: HOW TO INTEGRATE LITERATURE IN A NON-READING CLASSROOM E. Poyntner, B. Huber	7130
ANALYSIS OF SENSORS AFFECTING HARMFUL EMISSIONS FROM ROAD TRANSPORT APPLIED IN ENGINEERING EDUCATION H. Kanevski, S. Lyubomirov	7136
USING MOTION PICTURES TO FOSTER HISTORICAL THINKING: A PROPOSAL FOR HISTORY TEACHERS' EDUCATION Y. Mathias	7146
THE IMPORTANCE OF EDUCATION FOR SUSTAINABILITY IN THE DEVELOPMENT OF ENTREPRENEURIAL INTENTIONS, FOCUSED ON SUSTAINABLE DEVELOPMENT C. Simut, D. Bac, R. Simut	7147
(BIO)PRINTING IN MODERN MEDICAL EDUCATION D. Shopova, A. Mihaylova, P. Kasnakova, A. Yaneva, M. Hristozova, Y. Sbirkov, V. Sarafian, M. Semerdjieva, D. Bakova	7157
STUDENTS' PERCEPTION ON CIVIC EDUCATION AND THE EFFICIENCY OF SCHOOLS IN SHAPING THE SOCIAL MENTALITY F. Ortan, C. Simut, J. Kiss	7162
STUDENT ASSISTANT PERSPECTIVE ON FLEXIBLE LEARNING SPACES: CHALLENGES AND SUCCESS FACTORS A. Lazareva, C. Edelhard Tømte	7170
INTERTWINED VOICES - A COMMUNITY PARTICIPATION PROJECT FOR YOUNG HIGHER EDUCATION STUDENTS C. Figueiredo, F. Fialho, A. Alcântara, J. Matos	7178
A PROBLEM BASED APPROACH TO MECHATRONICS USING FORMULA SAE V. Lorenzi, B. Zappa, P. Righettini, R. Strada	7183
PSYCHOSOCIAL CHARACTERISTICS OF TWICE-EXCEPTIONAL STUDENTS IN COMBINATION OF SPECIFIC LEARNING DISABILITIES AND INTELLECTUAL GIFTEDNESS P. Baranová, I. Márová	7191
RESILIENT EDUCATION FOR COLLECTIVE WELL-BEING D. Chiusaroli, G. Arduini	7199
THE TEACHER'S PROFILE IN INCLUSIVE CLASSROOM MANAGEMENT D. Chiusaroli	7208
EVALUATION OF TEAMWORK COMPETENCE. VIEW OF TEACHERS AND EMPLOYERS <i>D. Martínez, B. Amante, N. Salán, M.C. Romero</i>	7214
EMPLOYABILITY, PROFESSIONAL SKILLS, AND JOB PLACEMENT: THE VISION OF SCIENCE STUDENTS I. Solaberrieta Gonnet, A. Khalfi, A. Jiménez Migallón, M. Ramos	7222
IT IS NOT WHAT IT SEEMS: BIOCHEMICAL BASIS OF INTERSEXUALITY (CONGENITAL ADRENAL HYPERPLASIA) AND ETHICAL CONSIDERATIONS M. Alonso-Chamorro, M.C. Turpin, S. Álvarez Montero	7230
A PHENOMENOLOGICAL EXPLORATION OF THE HOLISTIC EXPERIENCES OF STUDENTS OF AFRICAN DESCENT AT A POST-1992 UNIVERSITY IN ENGLAND P. Seuwou, D. Sarwar, A. Pilkington	7234
PROMOTING SCIENTIFIC RESEARCH AND COMMUNICATION IN ANIMAL PRODUCTION PREGRADUATE STUDENTS N. Formoso-Rafferty, P. García-Rebollar, M.D. Carro, N. Nicodemus, T. de Evan, B. Velasco, P. Rebollar	7244
SUSTAINABLE DEVELOPMENT GOALS AWARENESS IS IMPROVED AFTER INTRODUCTION OF RELATED ACTIVITIES IN HIGHER EDUCATION DEGREE SUBJECTS M. Leiva-Brondo, N. Lajara-Camilleri, C. Lull	7252
DEBATE: A USEFUL TOOL TO ENHANCE COMMUNICATION SKILLS IN	7258
AGRICULTURAL ENGINEERING STUDENTS N. Formoso-Rafferty, N. Nicodemus, P. García-Rebollar, T. de Evan, P.G. Rebollar, M.D. Carro	

THE TEACHING STRATEGIES EMPLOYED IN THE TEACHING OF SCIENCE BY MULTIGRADE PRIMARY SCHOOL TEACHERS: A CASE OF TWO RURAL DISTRICTS IN LESOTHO M. Phakisi, R. Bhagwandeen, A. Rambuda	7264
PREPARING PRESERVICE ELEMENTARY TEACHERS TO TEACH MATHEMATICS AND COMPUTER SCIENCE SKILLS THROUGH PEDAGOGICAL APPROACHES INVOLVING GAME DESIGN LEARNING	7265
C. Navarrete	
TEACHING SYNTAX OF RUSSIAN AS A FOREIGN LANGUAGE AT PHILOLOGICAL STUDIES IN POLAND (PROBLEMS AND CHALLENGES) A. Romanik	7273
WRITING FLUENCY, AN ESSENTIAL YET OVERLOOKED COMPONENT OF COMMUNICATIVE COMPETENCE 1. Saad	7277
EXPERIENTIAL LEARNING THROUGH EDUCATIONAL GAMIFICATION AND ORAL NARRATION: A PROPOSAL FROM NEUROSCIENCE E. Hernández Pérez, M. Pena Garrido	7278
THE USE OF SIMULATORS IN THE PHYSICS TEACHING IN PRIMARY SCHOOL: DESCRIPTIVE ANALYSIS OF EDUCATIONAL INNOVATION IN A PANDEMIC CONTEXT C. Toro, S. Contreras	7282
ANALYSIS OF TACTICS AND STRATEGIES TO INTEGRATE DIGITAL RESOURCES IN THE EDUCATIONAL MODEL IN SPAIN (SECONDARY EDUCATION AND BACCALAUREATE) J. Garcia Alonso	7290
EMPIRICAL RESEARCH ON HOW EFFICIENTLY DIGITALIZATION IS BEING INTEGRATED IN SECONDARY, BACCALAUREATE AND VOCATIONAL EDUCATION IN SPAIN J. Garcia Alonso	7295
A TECHNOLOGY-VALUE SYNERGY MODEL FOR LEARNING MATH THAT EVOKES EMOTIONS AND CREATES THE BEST LEARNING MOMENTS	7300
A. Cunska	
ROBOT COMPETITION DESIGN FOR IMPROVING ENGINEERING STUDENTS' STEM SKILLS M. Salah, A. Alghazo, A. Abu-aisheh	7306
ASSESSMENT OF DIGITAL LABORATORY EFFECTIVENESS IN THE BASIC	7312
ELECTRONICS SUBJECT N. Novas, F. Portillo, M. Fernández-Ros, J.A. Gazquez, C. Cano, R.M. García Salvador, M. Soler-Ortiz,	/312
F. Segura	
TEACHERS' ATTITUDES ON THE APPLICATION OF INNOVATIVE MODELS IN TEACHING OF BIOLOGY IN PRIMARY SCHOOL V. Županec, T. Lazarević, T. Pribićević	7320
COMBINATION OF PEER INSTRUCTION AND FLIPPED CLASSROOM METHODOLOGIES: A MURDER IN FORENSIC ANALYTICAL CHEMISTRY M.C. Garrigós Selva, M. Ramos, R. Belhadj, C.J. Pelegrín Perete, A.C. Mellinas Ciller	7329
WHY AND HOW TO IMPLEMENT A FLIPPED CLASSROOM MODEL IN BIOLOGY EDUCATION IN PRIMARY SCHOOL V. Županec, Ž. Ilić, T. Lazarević, T. Pribićević	7336
COMPREHENSIVE LEARNING OF DIGITAL ELECTRONICS THROUGH FPGAS C. Cano, M. Soler-Ortiz, R.M. García Salvador, F. Portillo, N. Novas, J.A. Gazquez, M. Fernández-Ros, F. Segura	7343
DIFFERENCES IN THE TEXT PROBLEM SOLUTION OF PRIMARY SCHOOL STUDENTS WHO WERE TAUGHT AND NOT TAUGHT TO REASON MATHEMATICALLY N. Cibulskaitė, V. Grabauskienė, O. Moskaitytė - Rastenienė	7351
MATHEMATICAL REASONING USING KNOWLEDGE OF NUMBER BONDS WHILE SOLVING ALGEBRAIC PROBLEM IN THE 4TH GRADE N. Cibulskaitė, V. Grabauskienė, O. Mockaitytė-Rastenienė	7361
·	5 2.5-
DESIGN THINKING: IT'S A MARATHON AND A SPRINT P. Lane, R. Lafferty	7367

EFFICIENCY OF CONFERENCE CALLS AS AN EDUCATIONAL DELIVERY METHOD DURING COVID-19 IN ELEMENTARY SCHOOLS G. Kerekes	7374
THE ETHICAL CODE OF HIGHER EDUCATION INSTITUTIONS AS THE BASIS FOR THE UNIVERSITY'S CORPORATE CULTURE. CASE STUDY: HOW DO ETHICAL CODES WORK?	7379
A. Nurutdinova, A. Bogdanova, A. Sayın	
AN ONTOLOGY FOR EDUCATIONAL AND CAREER PROFILING BASED ON THE ROMANIAN OCCUPATION CLASSIFICATION FRAMEWORK: DESCRIPTION AND SCENARIOS OF UTILISATION M.I. Dascalu, I. Marin, I.V. Nemoianu, I.F. Puskás, A. Hang	7386
EXTENSION OF E-LEARNING DATA VISUALIZATION SYSTEM FOR DIFFERENT KNOWLEDGE REVIEWS DATASETS B. Kovačić	7396
MANAGER AS AN EDUCATOR: THE RISK OF BURNOUT L. Kopac, A. Klein, H. Polat, B Maier	7404
MANAGER AS AN EDUCATOR: PREVENTION OF BURNOUT L. Kopac, A. Muller, T. Eidenmuller, A. Mussmann	7409
THE FUTURE OF EDUCATION: CONSEQUENCES OF COVID-19 PANDEMIC ON THE EDUCATION SYSTEM	7413
N. Jurina Babović, I. Jemrić Ostojić, T. Tolnauer-Ackermann	
HOW TO CHOOSE ONE'S CAREER? A PROPOSAL FOR A SMART CAREER PROFILER SYSTEM TO IMPROVE PRACTICES FROM ROMANIAN EDUCATIONAL INSTITUTIONS I.C. Stanica, S.M. Hainagiu, S Neagu, N. Litoiu, M.I. Dascalu	7423
EDUCATION OF A PUPIL WITH MILD INTELLECTUAL DISABILITY IN STANDARD ELEMENTARY SCHOOL V. Kolková	7433
THE STUDENT PODCAST AS A PEDAGOGICAL STRATEGY OF EDUCATION FOR PEACE IN THE EL SANTUARIO NEIGHBORHOOD OF THE CITY OF BARRANQUILLA, COLOMBIA H. Cerra	7440
FARE: AN ONLINE APPLICATION FOR GRAPHICALLY DESIGNING FINITE AUTOMATA AND COMPUTING EQUIVALENT REGULAR EXPRESSIONS Z.S. Tramparis, E. Papaioannou, C. Kaklamanis	7445
NATURAL LANGUAGE PROCESSING APPLIED FOR TEACHING EVALUATION S. Montalvo, M.A. Rodríguez, R. Cabido, D. Concha	7454
RESEARCH IN VIRTUAL REALITY AND 3D PRINTERS IN EDIFICATION AND ENGINEERING M. Valiente Lopez, S.L. Diez Sanz, M.C. Sanz Contreras	7460
USE OF NITINOL-SHAPE MEMORY ALLOY IN THE REINFORCEMENT OF 3D CONCRETE PRINTING INDUSTRY B. Ahadi, M. Valiente Lopez	7470
THE SEARCH FOR LIFE IN THE UNIVERSE: DESIGNING AND IMPLEMENTING A COURSE FOR M.ED. SCIENCE TEACHERS O. Eldar	7480
THE SUSTAINABLE FEEDBACK CONCEPT FROM RESEARCHERS' PERSPECTIVE: A NARRATIVE REVIEW R. Faria, D. Pedrosa, B. Lopes, F. Ribeiro Faria	7481
CONCEPTUAL OVERVIEW ON CORL: NARRATIVE LITERATURE REVIEW F. Ribeiro Faria, D. Pedrosa, B. Lopes, R. Faria	7490
A FRAMEWORK FOR THE DESIGN, IMPLEMENTATION AND EVALUATION OF AI BASED REAL-LIFE LEARNING SCENARIOS FOR COMPUTER SCIENCE NON-MAJORS D. Meyer, S. Fausser	7499
A SURVEY ON GRADING FORMAT OF AUTOMATED GRADING TOOLS FOR PROGRAMMING ASSIGNMENTS A. Agrawal, B. Reed	7506
A NEW APPROACH TO INTERDISCIPLINARITY: THE CASE OF THE MASTER'S DEGREE STUDY PROGRAMME "APPLICATIONS OF ARTIFICIAL INTELLIGENCE" Z. Rutkuniene, B. Narkeviciene	7515

A CONTEMPORARY ADOLESCENT'S PRACTICAL MODEL OF UPBRINGING: PEDAGOGICAL POSSIBILITIES OF NETWORKING N. Medina Brakamonte, O. Zayka	7516
SIMULATION OF ENGINE MALFUNCTIONS AND THEIR IMPACT ON EMISSIONS WITH AN EMPHASIS ON ENGINEERING EDUCATION H. Kanevski, S. Lyubomirov, S. Asenov	7525
DIALECTICAL VERSUS VIRTUAL/REMOTE LEARNING M. Klekovska, C. Martinovska	7533
UNIVERSITY-WIDE SKILLS FRAMEWORK F. Vansweevelt, J. Notermans	7540
GEOGEBRA IN ONLINE GEOMETRY COURSES FOR FUTURE MATHEMATICS TEACHERS A. Schmid, L. Korenova	7541
DEVELOPING AND SCALING EUROPEAN HEIS' INNOVATION VISION THROUGH LEARNING AND MENTORING PROGRAMS D. Facal, M. Gandoy-Crego, N. Gerbaudo-González, S. Feijoo-Quintas, J.M. Pinto, E. Costa, M. Duarte, A. Leal, P. Hatton, P. Doležel, L. Routil, J. Pospichal, E. Sevtsenko, G. Teodorescu, M. Oliveira, G. Gonçalves	7548
USAGE OF AUGMENTED REALITY APP TO DEVELOP THE MATHEMATICAL COMPETENCES OF CHILDREN IN PRIMARY EDUCATION N. Nevrelova, L. Korenova	7553
DIGITAL SKILLS OF STUDENTS J. Hudáková, V. Papcunová	7561
STUDENT FEEDBACK ON ONLINE LEARNING DURING THE COVID-19 PANDEMIC J. Hudáková, V. Papcunová	7565
LIEM: INNOVATION LABORATORY FOR ENVIRONMENTAL EDUCATION J. Holgado Garcia	7570
CATCH THE PLATE! V. Misiti, D. Riposati, F. Di Laura, P. Battelli	7574
DEVELOPING KNOWLEDGE, ATTITUDES AND COMPETENCES OF STUDENTS IN RUSSIAN STUDIES THROUGH AN ACTION-ORIENTED APPROACH M. Karolczuk	7580
DEVELOPMENT OF EFFECTIVE COURSE DESIGN INTEGRATING ACTIVE LEARNING AND ANALYSIS WITH NEAR-INFRARED SPECTROSCOPY FOR JAPANESE ENGINEERING STUDENTS <i>R. Tobita</i>	7585
MOVIEFICATION OF MATHEMATICAL WORD PROBLEMS: USING ENTERTAINMENT MECHANISMS TO SUPPORT LEARNER ENGAGEMENT J. Smith	7590
BOARDGAMES PROPOSAL AS NEW PARADIGM IN EDUCATION GAMIFICATION: IDEATRIZ-X PROJECT	7597
J.D. Cano-Moreno, I. Cerdeño García de Blas, F.V. Sánchez Martínez, M.M. Recio Díaz, S. Nuere Menéndez-Pidal	
DISTANCE CAREER INTERVENTION WITH PORTUGUESE HIGHER EDUCATION STUDENTS: PROGRAMME OVERVIEW F. Seabra, S. Monteiro, S. Santos, L. Almeida	7602
DIGITAL-BASED INTERVENTIONS TARGETING SCHOOL FAILURE: A SYSTEMATIC REVIEW R. Azevedo, A. Costa, D. Moreira, A. Azevedo, I. Oliveira, A. Gonçalves, J. Casanova, P.C. Dias	7609
HOW DEVELOPMENT ORIENTED IS THE UNIVERSITY FOR DEVELOPMENT STUDIES TAMALE-GHANA? FROM THE LENS OF SUSTAINABLE DEVELOPMENT GOALS (SDGS) A.M. Abdulai	7615
HOW TO BUILD AN ENTREPRENEURSHIP EDUCATION SYSTEM ACROSS EDUCATIONAL LEVELS? K. Kivisild	7623
E-WASTE EDUCATION AS A MOTIVATING FACTOR IN CHEMISTRY EDUCATION M. Feszterová, Z. Jenisová	7624
DISCOVERING SCIENCE THROUGH COLORS S. Pisano	7632

FULLY REMOTE CONTROLLABLE LAB SETUP FOR PRACTICAL TRAINING IN PHOTONICS HIGHER EDUCATIONS	7638
F. Lukas, J. Domke, C. Henkel, J. Kretzschmar, F. Sojka, C. Helgert, T. Pertsch EXTRACURRICULAR ACTIVITIES FOR STUDENTS' SKILLS DEVELOPMENT	7645
Ü. Kesli, L. Ariva	7043
THE EXTREME-ENERGY EVENTS PROJECT: INTRODUCING PEOPLE TO SCIENCE THROUGH COSMIC RAYS S. Pisano	7646
THE MAIN ACTIVITIES AND OUTCOMES OF PROCESS PROJECT SO FAR A. Kakko	7651
ETHICAL PRINCIPLES IN INCLUSIVE EDUCATION: A SYSTEMATIC REVIEW M. García-Parra, F. Negre Bennasar, S. Verger	7659
THE USE OF THE MOBILE PHONE TO ACHIEVE A USEFUL AND FUN CONTINUOUS EVALUATION A. Linares-Unamunzaga, H. Gonzalo-Orden, M. Rojo Arce, M. Miguel-Borge	7660
INTRODUCING SYSTEMS THINKING SKILLS TO IMPROVE THE LEARNING PROCESS ABOUT COMPLEXITY AND COMPLEX SYSTEMS G.L. Dugarte-Peña, E. Muñoz-García, N. Gordo-Herrera	7670
THE VOICES OF FAMILIES AND CHILDREN IN SITUATIONS OF SOCIAL AND ECONOMIC VULNERABILITY: A REPORT OF A PROJECT P. Fortunato Vaz, E. Mesquita, I. Freire-Ribeiro, R. Reichert	7678
ARABIC LANGUAGE EDUCATION IN THE DISTANCE EDUCATION MODEL (FOR NON-NATIVE ARABIC LANGUAGE) S. Karuko	7684
RESHAPING THE STUDENT ADMISSION PROCESS: AN ANALYSIS OF THE CHANGES BROUGHT BY THE RECENT PANDEMIC L. Patachi	7691
FROM THEORY TO PRACTICE: DEVELOPING SOCIAL STUDIES TEACHERS' CAPACITY FOR COMPUTER SCIENCE INTEGRATION BY RIDING THE SEMANTIC WAVE P. Shank, R. Dovi, K. Franklin	7696
THE USE OF SOCIAL NETWORKS AS A TOOL FOR FLIPPED CLASSROOM METHODOLOGY: A PRACTICAL EXPERIENCE IN HIGHER EDUCATION FRAMEWORK M. Soler Porta, M. Rojas-de-Gracia, A. Lopes, A. Esteban, F. Soares, M.J. Bentabol, M.D. Rodríguez- Ruiz, M. Muñoz, A. Bentabol, R. Caña-Palma	7697
QUANTUM COMPUTING KNOWLEDGE PROVIDES AN EXPONENTIAL SPEEDUP TO HARD COMPUTATIONAL PROBLEMS: AN EXPERIENCE WITH ENGINEERING STUDENTS	7701
E. Muñoz-García, G.L. Dugarte-Peña MEASURING THE EFFECTS OF AN EMERGENT DISTANCE EDUCATIONAL PROGRAM ON THE APPROVAL RATINGS DURING THE COVID-19 PANDEMIC J. Figueroa-González, S.B. González-Brambila, B.A. González-Beltrán, L. Sánchez-Guerrero	7705
COMPARING THE PROGRESS OF NEW INCOMING STUDENTS IN THEIR FIRST YEAR BEFORE AND DURING THE COVID-19 PANDEMIC S.B. González-Brambila, B.A. González-Beltrán, L. Sánchez-Guerrero, J. Figueroa-González	7713
CONNECTING THE DOTS: A REALITY-BASED LEARNING APPROACH IN A MASTER IN MANAGEMENT DEGREE P. Ferreira, I. Maldonado, C. Miguens, S. Jayantilal	7720
OPEN-SOURCE AR/VR LEARNING APPLICATIONS FOR PHOTONIC QUANTUM EXPERIMENTS	7726
J. Kretzschmar, S. Ritter, F. Eilenberger, C. Helgert, T. Pertsch A SYSTEMATIC REVIEW ON IMPLEMENTING ACTIVE LEARNING AS A DESIGN	7732
LEARNING METHOD IN THE ARCHITECTURE STUDIO M. Pirdavari, Z. Akbari	,,52
REMOTE LAB SYSTEM FOR TEACHING ENGINEERING TOPICS RELATED TO MECHATRONICS	7740
G. Soprano Machado, W. de Souza Picanço, M. Melo de Carvalho, F.A. de Carvalho Ayres Junior, R.L. Paiva de Medeiros, V. Ferreira de Lucena Junior	

ACADEMIC ENGLISH: CURRENT AND FUTURE DIRECTIONS IN TEACHING ENGLISH TO UNIVERSITY STUDENTS N. Solovyeva	7741
INDIGENOUS PERSPECTIVES: IS EQUITY UNFAIR TO THE MAYANGNA OF NICARAGUA? P. Lane, B. Mills	7748
RESULTS OF THE ACTIVITIES PERFORMED WITH VET STUDENTS/LEARNERS AND AIMED AT TESTING THE PRODUCTS OF THE ERASMUS+ TRANSNATIONAL EDUCATION PROJECT "CHERISH - CULTURAL AND NATURAL HERITAGE: A SUSTAINABLE TOURISM VET INTEGRATED APPROACH" P. Ciccioli, R. Coratella, F. D'Esposito, P. Ragni	7753
IMPLEMENTATION OF A VIRTUAL LIGHT LABORATORY M. Ibryamov, O. Petrov	7764
COVID-19 TEACHING AND LEARNING EXPERIENCES PROJECT: USING THE GREX DASHBOARD TO INVESTIGATE ONLINE SKILL DEVELOPMENT DURING THE PANDEMIC M. McGravey, R. van Oostveen	7772
FORMAL AND NON-FORMAL MUSICAL EDUCATION: THE SEARCH FOR WELL-BEING	7782
A. Lapinska, R. Bakutytė THE SUMMER COMPUTER SCHOOL FOR STUDENTS WITH VISUAL IMPAIRMENT IN PREPARATION FOR UNIVERSITY M. Cujdikova, M. Stankovicova	7789
AI EDUCATION AND INCLUSION IN K-12 QI. Xia, THOMAS, K.F. Chiu	7798
DISTANCE LEARNING IN TIMES OF CRISIS: PREDICTING GRADUATE STUDENTS' SELF-EFFICACY THROUGH PERSONAL, OCCUPATIONAL AND ACADEMIC FACTORS S. Tsemach, A. Barth	7799
CREATING THE NEW NORM EDUCATIONAL "MINDSET" THROUGH KNOWLEDGE MANAGEMENT CREATED DURING THE COVID-19 PANDEMIC B. Barrett	7800
STRATEGIES EMPLOYED IN THE TEACHING OF SCIENCE BY MULTIGRADE PRIMARY SCHOOL TEACHERS IN LESOTHO M. Phakisi, R. Bhagwandeen, A. Rambuda	7808
INTRODUCTION TO UNIVERSITY TEACHING – A TRAINING PROCESS FOR EARLY-CAREER ACADEMICS AT THE UNIVERSITY OF PORTO C. Sousa, M. Pinto, R. Sinde	7809
THE IMPACT OF NEW TECHNOLOGIES ON THE SCAFFOLDING OF SIGNIFICANT LEARNING ABOUT SAFETY AND RISK MANAGEMENT IN THE CONSTRUCTION SECTOR IN COLOMBIA F. Lopez-Perez, S. Cubillos-Vanegas, M.E. Bulla-Ruiz, E. Cortés-Paez	7815
FORMATION OF STUDENTS' INTERCULTURAL COMMUNICATIVE COMPETENCE IN THE PROCESS OF TEACHING CHINESE LANGUAGE L. Makogon, L. Makogon	7824
A COMPARISON OF TWO (NOT WELL KNOWN) EDUCATIONAL ROBOTIC KITS FOR TEACHING COMPUTATIONAL THINKING K. Miková, V. Fejková	7830
THE DIFFICULTIES IN LEARNING CHINESE WRITTEN SPEECH AND THE WAYS TO OVERCOME L. Makogon, L. Makogon	7838
DIGITAL CITIZENSHIP EDUCATION IN EUROPE E. Mesquita, M.R. Patrício, I. Freire-Ribeiro, A. Pereira	7843
IMPACT OF DIGITAL COLLABORATIVE TOOLS ON THE DEVELOPMENT OF COMMUNICATION IN ENGLISH M. Martins, I. Araújo	7849
AN ACTIVE LEARNING METHODOLOGY TO IMPROVE ENGLISH ORALITY DEVELOPMENT SUPPORTED BY AN ONLINE DIGITAL TOOL C. Cunha, P. Faria, I. Araviro.	7857

CATEGORIZING AND ANALYZING LEARNER BEHAVIOUR IN DIGITAL CONSTRUCTION TASKS A. de Koning, R. van Oostveen	7864
HEALTH SCIENCES LIBRARIANS' TRAINING ON EVIDENCE-BASED MEDICINE AMID THE RECENT PANDEMIC R. Hisham Shunmugam, Z. Saupi Udin, M.F. Hamzah, A. Michael, M.S. Abu Kassim	7873
PROMOTING INTERAGENCY COLLABORATIONS FOR ENHANCING TRANSITION TO EMPLOYMENT FOR INDIVIDUALS WITH SPECIAL NEEDS D. Zhang, E. Roberts, M. Orsag, R. Maddalozzo, Y.F. Li	7874
SPATIAL SKILLS ENHANCEMENT AND 3D DIGITAL MODELLING TOOLS IN ARCHITECTURE AND CONSTRUCTION ENGINEERING: A LITERATURE REVIEW P. Piumatti	7884
T@SK PROJECT: BUILDING BRIDGES BETWEEN UNIVERSITY AND SOCIETY THROUGH SOCIAL WORK G. Bulli, G. Mascagni, S. Moroni	7888
THE BENEFITS OF PERSONAL DEVELOPMENT MODULES FOR HEALTH AND SOCIAL CARE LEARNERS WITHIN HIGHER EDUCATION G. Maughan	7897
HACKATHONS THRILLS NOT ONLY NERDS: BEST PRACTICES FOR A MULTICULTURAL AND MULTIDISCIPLINARY APPROACH D. Meyer, R. Wyngaard, J. Njenga, J. Grinninger, J. Vogt, A. Bagula	7902
PROVIDING TODAY'S STUDENTS WITH THE SKILLS THEY WILL NEED FOR TOMORROW'S TECHNOLOGY D. Joseph	7913
EMBODIED PEDAGOGY FOR A DEMOCRATIC SPACE N. Ferri	7914
PATRIOTIC UPBRINGING IN VOCATIONAL EDUCATION: DOCUMENT ANALYSIS IN LATVIAN CONTEXTS J. Ozols, R. Bakutyte	7918
THE ROLE OF ICT IN MULTICULTURAL EDUCATION POLICIES K. Papaioannou, E. Papaioannou	7927
THE EFFECT OF PRESCHOOL EDUCATION ON CHILDREN'S SCHOOL DROPOUT RATES IN MOROCCO - SPATIAL ANALYSIS A. Ibourk, S. Raoui	7931
SPECIFICS IN THE EDUCATION OF CHILDREN WITH HEARING IMPAIRMENT IN AN INCLUSIVE SETTING OF MAINSTREAM PRIMARY SCHOOL M. Štibrányiová	7936
GLOBAL CLASSROOM AND THE DEVELOPMENT OF COMMUNICATION SKILLS J. Cortés Vásquez, S. García Ángeles	7940
INTEGRATING RESEARCH AND EDUCATION: "HYBRID AND FUSION PREDICTION OF THE FUNCTIONALITY OF ENERGY CONVERTING ELEMENTS" PROJECT S. Stoyanova-Petrova, D. Stoyanova, N. Kafadarova, S. Sotirov	7945
ACTIVE METHODOLOGIES AT UNIVERSITY: THE IMPORTANCE OF MAINTAINING MOTIVATION A. Batlles de la Fuente, M.J. López Serrano, F.J. Castillo Díaz, E. Abad Segura	7949
QUALITY ANALYSIS IN SHORT-TERM COURSES ON A PERSPECTIVE OF RAPID ENTERING THE LABOR MARKET	7953
B. Wilges, A. Schwaab, D. Longo, V. Martins, G. Mateus, R. Cislaghi	
SUPPORTING HIGHER EDUCATION STUDENTS DURING THEIR ERASMUS INCOMING/OUTGOING MOBILITIES: AN EXPERIENCE FROM A PSYCHOLOGY COURSE IN PORTUGAL A. Gonçalves, I. Oliveira	7963
GAMIFICATION IN TEACHING NATURAL AND TECHNICAL SCIENCES Y. Daineko, M. Ipalakova, D. Tsoy	7970
TEAMWORK AND EFFICIENCY IN CHEMISTRY PRACTICAL SESSIONS J.J. Lull, C. Lull	7979

PRACTICAL TRAINING OF STUDENTS - A MOTIVATING FACTOR FOR PSYCHOSOCIAL MUTUAL AID IN A DIGITAL ENVIRONMENT	7983
D. Bakova, P. Kasnakova, A. Mihaylova, R. Stoyanova, D. Davcheva, T. Deneva, E. Toseva, D. Rajcinovska, G. Burov, S. Harizanova	
EFFICIENCY OF THE EDUCATION COST IN LOCAL GOVERNMENT: AN APPLICATION TO THE SPANISH CASE J.L. Zafra-Gómez, P. Povedano-Fernández, L. Marquez-Arenas, G. Pérez-López, G. López-Pérez	7988
PROFESSIONAL COMPETENCE OF AN ONLINE LATVIAN LANGUAGE TEACHER FOR	7992
PUPILS FROM THE DIASPORA L. Krastiņa, S. Zariņa, R. Bakutytė, E. Bogdāne	
DIGITAL ART CREATION EDUCATION FOR THE ELDERLY WITH MILD COGNITIVE IMPAIRMENT THROUGH EXPRESSIVE ART THERAPY P.F. Wu, R. Lee	7999
SALVADOR: HOW NETFLIX AND INSTAGRAM CAN INCREASE STUDENT MOTIVATION FOR AN ACTIVE LEARNING METHODOLOGY C. Ramirez, R. Frías, E. Martinez-Miguel	8008
CURRICULUM DESIGN STRATEGIES FOR K-12 COMPUTER SCIENCE INTEGRATION P. Shank, K. Franklin, V. Fawley	8016
PARENTAL UNDERSTANDING OF CAREER DEVELOPMENT SUPPORT FOR YOUTH IN LATVIA R. Burceva	8017
TEACHING AND LEARNING UNITS OF INQUIRY THROUGH ART C. Osorio Alvarez	8023
LACK OF NORMALCY PLANNING IN HIGHER EDUCATION IN MEXICO N. Dominguez-Vergara	8024
INDIVIDUAL CAREER COUNSELLING IN GENERAL AND PROFESSIONAL EDUCATION INSTITUTIONS: CASE OF LATVIA R. Burceva	8033
PROBLEMS OF UNEMPLOYED YOUTH AND GRADUATES L. Madlenakova, R. Madlenak	8038
"FROM OCCUPATION TO PARTICIPATION": STUDENT VOICE AND REFLECTIONS ON HOW TO RETHINK HIGH SCHOOL EXPERIENCE, CENTERED ON RELATIONSHIP, STUDENT'S ENGAGEMENT AND SCHOOL'S EDUCATIONAL DIMENSION M. Brognoli, V. Pagani, G. Pastori	8046
THE IMPACT OF EDUCATION ON ECONOMIC DEVELOPMENT C. Feniser, A. Sadeh, O.P. Stan, C.F. Radu, A. Constantinescu-Dobra, V. Maier, I.D. Popa	8053
BUILDING PRACTICAL SKILLS TO FORMING RESILIENCE AMONG STUDENTS IN PANDEMIC	8060
R. Stoyanova, A. Mihaylova, P. Kasnakova, D. Bakova, D. Davcheva, T. Deneva, E. Toseva, G. Burov, G. Ristevska-Dimitrovska, S. Harizanova	
INTEGRATING MULTI-DISCIPLINARY PAEDIATRIC PALLIATIVE CARE WITHIN THE UNDERGRADUATE TRAINING OF SOCIAL SERVICE PROFESSIONALS R. Swanzen	8066
PROJECT-BASED LEARNING IN HIGHER EDUCATION: NEEDS AND EXPECTATIONS FROM ROMANIAN, PORTUGUESE, AND TURKISH TEACHERS 1.M. Oliveira, P.C. Dias, A.S. Azevedo, E. Kara, H.M. Dönmez, O. Ergunay, M. Girtu, D. Caprioara	8074
VIRTUAL PATIENT: ARCHITECTURE OF AN EDUCATIONAL WEB PLATFORM FOR THE ASSESSMENT OF CONSULTATION AND DIAGNOSING SKILLS OF MEDICAL STUDENTS 1.A. Awada, A. Sorici, M. Drăgoi, A.M. Florea, A. Scafa-Udriște	8080
EFFECT OF COVID-19 PANDEMIC ON THE PUBLIC ACCEPTANCE OF PARENT-LED HOME-BASED EDUCATION – THE CASE OF CZECHIA Y. Kostelecká, T. Kostelecký	8085
DEVELOPMENT OF A PLATFORM TO PROMOTE PROJECT-BASED LEARNING IN HIGHER EDUCATION: CONTRIBUTES OF THE RESTART4EDU PROJECT P.C. Dias, I.M. Oliveira, A.S. Azevedo, E. Kara, H.M. Dönmez, O. Ergunay, M. Girtu, D. Caprioara	8086
IMPLEMENTING PROJECT-BASED APPROACH IN TEACHING ESL STUDENTS AT KAZAN FEDERAL UNIVERSITY D. Khakimzyanova, E.S. Khovanskaya	8092

OF COMPUTER PROGRAMMING STUDENTS H.D. Lozano Rojas, F. Restrepo Calle, J.J. Ramírez Echeverry	8097
RAPID PANDEMIC RESPONSE: SIMPLE TECHNIQUES FOR CREATING VIRTUAL LABS R. Drlička, M. Kotus, J. Macho	8107
ESP TEACHERS' PERCEPTION OF HOW THEY COMPLY WITH THE REQUIREMENTS OF DIGITAL FORMATIVE ASSESSMENT K. Inozemtseva, E. Morozova	8112
EMOTIONAL REGULATION IN THE COOPERATIVE WORK OF STUDENTS OF SCIENCE OF PHYSICAL ACTIVITY AND SPORT L. Vega, A. Reyno, C. Hederich, M.A. Ávalos	8113
DESIGN BASED RESEARCH OF A SENSOR BASED MOBILE LEARNING COMPANION H.S. Yun, A. Sardogan	8117
DESIGNING A WEB-QUEST FOR STUDYING LANGUAGE AND CULTURE OF AUSTRALIA K. Inozemtseva, N. Nurieva	8125
ELEMENTS OF INFORMAL LEARNING IN TEACHING PROCESS IN GENERAL ENGLISH CLASSES AT KAZAN FEDERAL UNIVERSITY D. Khakimzyanova, E.S. Khovanskaya	8132
REDEFINING ASSESSMENT AND EVALUATION POLICIES AND PRACTICES: A CANADIAN PERSPECTIVE M. Marchione, W. Barber, R. van Oostveen, J. Stokes	8137
DIGITAL TRANSFORMATION AND LEAN THINKING: PERCEIVED INTERCONNECTIONS IN THE MANAGEMENT OF EDUCATIONAL SERVICES AT CAMPUS III OF THE FEDERAL UNIVERSITY OF PARAÍBA DURING AND AFTER THE COVID-19 PANDEMIC K. Ferreira Santos, A. Garcez, R. Moreira da Silva, F. Charrua-Santos	8144
LINGUISTIC AUTOBIOGRAPHY AS AN EXAMPLE OF DEVELOPING DISCIPLINARY LITERACY AND ACADEMIC WRITING 1. Tragel, N.K. Teiva, L.M. Komissarov	8149
SOCIAL AND EMOTIONAL SKILLS DEVELOPMENT IN PRESCHOOL CHILDREN IN THE FAMILY ENVIRONMENT D. Apostolova	8153
CHALLENGES OF EMPLOYING E-LEARNING FOR LEARNING ESTONIAN SPEAKING INTERACTION M. Teral	8162
THE INNOVATIVE EDUCATIONAL METHODS TO ENHANCE ENTREPRENEURIAL ABILITIES V. Maier, A. Constantinescu-Dobra, M.A. Cotiu, O.P. Stan, C. Feniser	8166
ASSESSMENT OF THE IMPACT OF EXTERNAL FACTORS ON LEARNING OUTCOMES E. Benks, B. Ilyukhin, N. Serbina, E. Lepustina	8176
MAJOR CHALLENGES OF VOCATIONAL EDUCATION IN GEORGIA - VOCATIONAL EDUCATION PROVIDERS' PERSPECTIVE 1. Grdzelidze, R. Sanadze, S. Idadze, M. Boehner, H. Tegelbeckers, T. Hennige	8177
TEACHERS' APPROACH TO THE TOPIC OF DEATH IN THE TEACHING OF LITERATURE IN THE CZECH SCHOOLS P. Bubeníčková	8183
EXTRINSIC VERSUS INTRINSIC MOTIVATIONAL FACTORS IN THE CHOICE OF BACHELOR DEGREE IN CASE OF STUDENTS FROM DISADVANTAGED SOCIO-ECONOMIC GROUPS D.M. Cismaru, R.S. Ciochina	8189
FAIRY TALES AS AN EDUCATIONAL TOOL FOR TEACHING FOREIGN LANGUAGES H. Li, L. Wang	8193
E-LEARNING AT THE UNIVERSITY COLLEGE OF TEACHER EDUCATION VIENNA: A COMPARISON ON THE EVALUATION OF SUPPORTING E-LEARNING COURSES IN DIFFERENT SUBJECTS IN PHYSICAL EDUCATION C. Rudloff	8197

ADOLESCENT OFFENDERS WITH A MIGRANT BACKGROUND: EDUCATIONAL PATHS IN ITALIAN RESIDENTIAL CARE A. Monniello	8207
IDENTIFICATION OF THE INFLUENCE OF UNFORESEEN EXTERNAL INFLUENCES (COVID-19 PANDEMIC) ON EDUCATIONAL OUTCOMES IN THE GENERAL EDUCATION SYSTEM E. Benks, B. Ilyukhin, N. Serbina	8214
LESSONS LEARNED FROM INITIATIVES TO ROLL OUT DIGITAL CREDENTIALS IN EUROPE	8215
M.L. Bruno, L. Morgado ENHANCING STUDENTS' SOFTWARE DEVELOPMENT SKILLS IN INTRODUCTORY JAVA-BASED PROGRAMMING COURSES WITH PROFESSIONAL COMMUNITY ACTIVITIES AND EXTERNAL RESOURCES	8225
B. Mihaljević, A. Radovan, M. Žagar, D. Jureković	
THE EFFECT OF THE COVID-19 PANDEMIC ON MEDICAL STUDENT ELECTIVES AT THE UNIVERSITY OF MANCHESTER, UK I. Ioannou, A. Davis, A. Ahmed, S. Gupta, E. Ashton, M. Saint, T. Wasty	8235
BENEFITS OF NEURODEVELOPMENTAL STIMULATION FOR CHILDREN WITH DEVELOPMENTAL LANGUAGE DISORDER J. Mironova Tabachová, K. Vitásková	8236
E-LEADERSHIP: AN EXPLORATORY ANALYSIS OF THE SCIENTIFIC PRODUCTION M. Amorim, B. Lins, M. Ferreira Dias, R. Madureira, C. Silva, M. Rodrigues, M. Sampaio	8245
ONLINE LEARNING FOR WORKING ADULTS DURING COVID-19 PANDEMIC: ADVANTAGES AND CHALLENGES P. Enciso	8253
MONEY MAKES THE WORLD GO AROUND: THE ROLE OF PROBLEM SOLVING IN FINANCIAL LITERACY H. Campos, D. Almeida	8254
LEARNING FROM TEXT OR VIDEO: COMPARATIVE ANALYSIS ON LEARNING ACROSS MODALITIES E. Dikbas Torun	8260
AN INSIGHT ON THE TRANSFORMATION OF THE TRADITIONAL EDUCATIONAL EXPERIENCE TO A COMBINATION OF SYNCHRONOUS, ASYNCHRONOUS, AND TRADITIONAL LEARNING ENVIRONMENT S. Shaw, O.A. Tapia	8265
THE "CUBIST" DWELLINGS OF OLHÃO (PORTUGAL): A CASE STUDY ON DEVELOPING SKILLS IN ARCHITECTURAL REHABILITATION DESIGN THROUGH THE HISTORY OF ARCHITECTURE AND TRADITIONAL CONSTRUCTION TECHNOLOGIES M. C. S. Nepomuceno, A. M. T. Martins Nepomuceno, Y. Gomez, V. Afonso	8273
STEM PEDAGOGICAL INNOVATIONS FOR THE INCORPORATION OF SOCIAL JUSTICE IN UNIVERSITY EDUCATION: THE CASE OF THE UNIVERSIDAD DEL ROSARIO R. Méndez-Romero, S. Carrerá-Martínez, M.A. Suavita-Ramírez	8280
TOWARDS AN ADAPTIVE USE OF CONCEPT MAPPING CONSIDERING LEARNING STYLES J. Bechara	8287
STEM TRAINING AND ITS RELATIONSHIP WITH THE NEW MEXICAN SCHOOL EDUCATIONAL MODEL C.P. Suarez Rodriguez, C. Zamora Pedraza	8292
USING FLIPPED LEARNING IN ONLINE COURSES M. Fazal, C. Navarrete	8293
HISTORICAL ANALYSIS OF THE FORMATION OF ENGINEERING STUDENTS THROUGH THE DEVELOPMENT OF TECHNOLOGICAL PRODUCTS IN THE OPEN ROBOTICS WORKSHOP	8294
L. Miranda-Cordero, R. García-García, Y. Minami, U. Peñuelas-Rivas STRATEGY FOR TEACHING CLASSICAL GENETICS BASED ON AUGMENTED REALITY D.M. Rivera Pinzón, S. Cuervo Guzman, Y.M. Gamboa Forero	8302

ADDRESSING A LABOR MARKET NEED FOR HEALTH MANAGERS AND POLICY PROFESSIONALS: DEVELOPMENT OF A NON-CLINICAL HEALTH SCIENCE DEGREE PROGRAM FOR HEALTH POLICY AND MANAGEMENT N. Rodriguez	8311
DESIGN OF REMOTE REALIZATION PRACTICE TO IMPROVE STUDENT LEARNING IN EMERGENT SITUATIONS A. Hernández, A.Y. Jiménez Rodríguez, Y. Minami	8318
TECHNOLOGICAL CHARTS OF FOREIGN LANGUAGE CLASSES: TEACHING HOW TO MODEL AND IMPLEMENT E. Chelpanova, E. Bystray, V. Moshkovich, F. Zakirova, A. Shabalina	8325
KAGAN'S COOPERATIVE LEARNING STRATEGIES IN A HIGHER EDUCATION ESL CONTEXT: FOSTERING WILLINGNESS TO COMMUNICATE (WTC) IN A POST-PANDEMIC ENVIRONMENT J. Fonseca-Chacana	8332
COMMONLY MISPRONOUNCED WORDS IN ENGLISH FOR ACADEMIC PURPOSES H. Vancova	8333
THE ROLE OF PEERS IN IMPROVING ENGLISH PRONUNCIATION H. Vancova	8334
RECORDING AND EDITING EDUCATIONAL VIDEOS: COMPARATIVE EVALUATION OF AVAILABLE FREE SOFTWARE AND AN EXAMPLE OF USE E. Romero, J. Remón	8340
TRANSITIONING FROM THE PAPER TO THE TABLET: DO STUDENTS AT THE HIGHER EDUCATION LEVEL USE TABLETS FOR NOTE TAKING? ARE THEY AWARE OF THE DIFFERENT FEATURES AND POTENTIAL OF NOTE-TAKING APPLICATIONS? J. Remón, E. Romero	8346
DESIGN THINKING IN DEVELOPING INTEGRATED HOLISTIC EDUCATION THROUGH PROJECT WORK (PW) H.F. Lee, T. Divenaran	8350
REFORMING BUAYA DI BAWAH JAMBATAN ADAB AND MORAL VALUES BOARD GAME BASED ON TEACHERS' FEEDBACK F.A. Mohd Radzi, N.A. Dahlan, K. Said Hashim, F. Wan Yunus, S. Silah, R. Abdul Wahab	8355
DESIGNING OF LEARNING ASSISTANCE ENVIRONMENT WITH MULTI EDGE DEVICES FOR THE ERA OF COMPLEX MASSIVE NATURAL DISASTERS S. Togawa, A. Kondo, K. Kanenishi	8361
IMPACTS OF THE COVID-19 PANDEMIC ON THE AREA OF COMMUNICATION AND RESPIRATION IN PRE-SCHOOL AND YOUNGER SCHOOL-AGED CHILDREN OBSERVED BY TEACHERS IN THE CZECH REPUBLIC E. Šlesingrová, K. Vitásková	8367
THE IMPACT OF TEXT AND VIDEO-BASED CONTENT DELIVERY IN ONLINE FLIPPED LEARNING ENVIRONMENT ON STUDENTS' ENGAGEMENT M. Abuhmaid	8372
THE CONCEPTUAL REPERTOIRE (CORE) IN THE CHEMISTRY TEACHING IN SECONDARY EDUCATION: ANALYSIS OF THE AMPLITUDE, DIVERSITY AND LEVELS OF REPRESENTATION IN ORGANIC CHEMISTRY CLASSES S. Contreras	8373
BETWEEN TEACHER TRAINING AND EDUCATIONAL INNOVATION. WHAT HAPPENED DURING DISTANCE EDUCATION BY COVID19? N.P. Maldonado Reynoso, A.J. Rodriguez Aguirre	8380
THE EFFECTIVENESS OF LEARNING MODEL GAWI MANUNTUNG BASED ON MULTIPLE INTELLIGENCES IN TERMS OF STATISTICAL LITERACY ABILITY AND SCIENTIFIC SKILLS OF ELEMENTARY SCHOOL STUDENTS A. Suriansyah, A.R. Agusta, R. Purwanti, S. Hussin, R.P. Hayati, D.A. Pratiwi	8388
EVALUATION OF THE STATE OF EDUCATIONAL SCIENCES IN UNIVERSITIES AND HIGHER EDUCATION INSTITUTIONS OF IRAN S. Khalijian, G. Shams	8389
AN ACCESSIBLE AND INCLUSIVE FUTURE FOR TABLETOP GAMES AND LEARNING: PARADIGMS AND APPROACHES	8397
C. Sousa, F. Luz, M.M. Fonseca, P. Neves, P. Lopes, V. Maratou, R. Chaliampalias, A. Kameas, Y. Abdullahi, S. Rye	

CHALLENGES AND SCENARIOS FOR HIGHER EDUCATION IN THE POST PANDEMIC WORLD	8407
N. Dominguez-Vergara DRAWING ON ARTS-BASED METHODS FOR STUDENTS' COLLECTIVE SENSE-MAKING OF THEIR GROUP-WORK LEARNING EXPERIENCES: A CASE STUDY FROM A UNIVERSITY-BASED HEALTH SCIENCE PROGRAM S. Walsh, A. Morgan, C. Kutay	8416
EFFECTIVENESS EVALUATION INDICATORS OF ORGANIZATIONAL E-LEARNING COURSES G. Shams, M. Zareisaroukolaei	8417
ACTION RESEARCH WITHIN ERASMUS+ M.E. Cîmpean, V.A. Găzdac, M.D. Bocoş	8421
DEVELOPING DIGITAL AND SUSTAINABILITY COMPETENCES THROUGH ETWINNING PROJECTS AND ERASMUS+ ACCREDITATION M.E. Cîmpean, V.A. Găzdac, M.D. Bocoș	8431
DIGITAL SKILLS IN UNIVERSITY EDUCATION: AN ANALYSIS OF ITS IMPLEMENTATION AMONG STUDENTS M.S. Valero-Gracia, J.S. Artal-Sevil	8437
FIT FOR PURPOSE: POSTGRADUATE CERTIFICATE IN EDUCATION STUDENTS' TEACHING PRACTICE N.P. Caga, N. Majiba	8444
EVALUATION OF THE IMPACT AND NECESSITY OF EDUCATIONAL (COMPUTER) PROGRAMS USED IN THE EDUCATIONAL PROCESS OF PRE-SCHOOL CHILDREN I. Bilbokaitė-Skiauterienė, R. Bilbokaitė	8449
ACADEMIC ADJUSTMENT, PSYCHOLOGICAL WELL-BEING, AND FEAR OF COVID-19 AMONGST UNDERGRADUATE UNIVERSITY STUDENTS DURING THE COVID-19 PANDEMIC, IN SOUTH AFRICA M. Tau, C. Mapaling, W. Tsabedze	8450
FOSTERING STUDENTS' AWARENESS IN CHOOSING UNDERGRADUATE STUDIES IN ARCHITECTURE @POLITO M. Pavignano, U. Zich	8457
URBAN SURVEY BETWEEN ON-SITE AND ON-LINE APPROACH IN THE BACHELOR'S OF ARCHITECTURE M. Pavignano	8467
EXPLORING THE EXPERIENCE OF PEOPLE WITH DEMENTIA IN VIRTUAL REALITY DRAWING CREATION BASED ON THE ARCS MODEL P. F. Wu, K.Y. Fan, F.C. Wu, S.W. Yen	8477
INVESTIGATING THE RELATIONSHIP AMONG SCHOOL CONNECTEDNESS, INTENSITY OF FACEBOOK USE AND SCHOOL ADAPTATION IN UKRAINIAN REFUGEE JUNIOR HIGH SCHOOL STUDENTS T. Touloupis	8482
ACADEMIC CHEATING BEHAVIORS AMONG ADOLESCENTS: THE ROLE OF MACHIAVELLIANISM AND MORAL DISENGAGEMENT T. Touloupis	8483
THE INFLUENCE OF COOPERATIVE LEARNING TO FOSTER THE DEVELOPMENT OF EFL STUDENTS' ENGLISH SKILLS S. Anaguano, M. Zurita	8484
COOPERATIVE LEARNING STRATEGY TO IMPROVE THE ATTITUDE OF STUDENTS TOWARDS EFL LEARNING AND OBTAIN BETTER RELATIONS AMONG PEERS S. Anaguano, M. Zurita	8490
INTEGRATION OF UKRAINIAN REFUGEE ATHLETES INTO THE OLYMPIC CHANEL OF THEIR NEIGHBORING COUNTRIES G. Braniste	8497
TEACHING BEYOND WORDS: NON-VERBAL CUES IN FOREIGN LANGUAGE LEARNING A.M. Toma	8498
TEACHERS PROFESSIONAL DEVELOPMENT USING NARRATIVE METHODOLOGY: IDEAS FOR LEADERSHIP CAPABILITY ISSUE E. Seghedin	8503

DISTANCE LEARNING OF FOREIGN LANGUAGES BY IMMIGRANTS AND REFUGEES THROUGH 'LANGUAGE ON THE GO' MOBILE APP P. Psomos	8504
STUDENTS' VIEWS ON A MOBILE SERIOUS GAME THAT FOSTERS MATHEMATICAL SKILLS THROUGH MAGIC (SPELLS): A SURVEY STUDY P. Psomos	8505
INTELLIGENT TUTORS DESIGNED TO IMPROVE STUDENT LEARNING IN PHYSICS V. Aravind, A. Kumar	8506
PROFESSIONAL COMPETENCIES: AN ASSESSMENT OF LECTURERS AT A PRIVATE HIGHER EDUCATION INSTITUTE IN SOUTH AFRICA C. Engelbrecht, W. Engelbrecht	8507
AGILE, HYBRID TEACHING METHODS OF DISTRIBUTED PROJECT MANAGEMENT AND INTERCULTURAL SKILLS FOR GLOBAL SOFTWARE ENGINEERING DURING THE PANDEMIC D.M. Marutschke, V. Kryssanov, P. Brockmann	8513
DESIGN AND TESTING OF A MOBILE EXPERIMENTAL DEVICE IN THERMAL SCIENCES E. Glakpe, S. Franco, C. Badiane	8521
21ST CENTURY SKILLS: WHAT ELSE? A.M. Lara-Palma, R. Brotóns-Cano, M.M. Delgado-Hurtado, A. Jiménez, O. Valencia-García, M.M. Jimeno-Bulnes	8529
ALCOHOL ABUSE AS A NON-STANDARD SITUATION IN THE CARE OF WOMEN IN THE PRECONCEPTION PERIOD, DURING PREGNANCY, DURING CHILDBIRTH, AND IN THE PUERPERIUM FROM THE MOTHER POINT OF VIEW: A CHALLENGE FOR HEALTH LITERACY EDUCATION 1. Olecká, A. Lemrová	8537
REVIEW OF PEDAGOGICAL STRATEGIES EMPLOYED IN TEACHING TOURISM AND HOSPITALITY PROGRAMMES AT POLYTECHNIC COLLEGES IN ZIMBABWE K. Ngwenya, S. Luggya, X. Khalo	8542
EXPERIENTIAL DESIGN THINKING FOR ENTREPRENEURS AND INNOVATIVE MANAGERS IN THE DIGITAL AGE S. Shcholokova, G. Laptev	8551
BUILDING ACTIVE CITIZENS - STRATEGIES AND PRACTICES OF EDUCATION FOR CITIZENSHIP: TRAINING EXPERIENCES OF PRE-SCHOOL AND PRIMARY TEACHERS C. Araújo, A. Osório	8560
RELATIONSHIPS BETWEEN ROBOTICS, PROGRAMMING AND NARRATIVES IN PRE- SCHOOL AND PRIMARY EDUCATION C. Araújo, A. J. Osório, A. P. Martins	8567
QUALITATIVE EQUITABLE EARLY CHILDHOOD CARE AND EDUCATION FOR SUSTAINABLE DEVELOPMENT IN SELECTED EARLY CHILDHOOD DEVELOPMENT CENTRES IN SOUTH AFRICA N. Tyilo, T. Matshoba	8568
SELF-REGULATION AS A CONDUIT FOR PLAY-BASED LEARNING APPROACH FOR YOUNG CHILDREN BETWEEN 0-5 YEARS. N. Tyilo	8575
ENHANCING L2 WRITERS' ARGUMENTATIVE SKILLS WITH THE "THINK, PAIR, AND SHARE" ONLINE TOOL J. Qin	8583
THE OPINION OF TEACHERS ON EVALUATING AND MARKING PUPILS' ACHIEVEMENTS IN LOWER PRIMARY SCHOOL GRADES IN CROATIA V. Valjan Vukić, S. Zrilić, M. Vunić	8588
IMPACT OF ONLINE TEACHING AND LEARNING ON AT-RISK STUDENTS AT AN INSTITUTION OF HIGHER LEARNING IN SOUTH AFRICA: SMU CASE STUDY NS. Mathiba, TA. Dandadzi, EL. Sesale, SM. Seeletse	8594
THE CHALLENGE OF PEER ASSESSMENT IN HIGHER EDUCATION P. Vossen, S. Ajit	8603
CREATING BIOPLASTICS: A CO-DESIGNED EDUCATIONAL PRACTICE? P. Enciso, C. Vignoli, S. Horiales, I. Marsicano, R. Mantaras, F. Palma	8613

TTEACH: A SERVICE-LEARNING PROJECT FOR ONLINE SCHOOL-BASED SUPPORT C. Fernandez-Jimenez, D. Tomás Cámara, L. Hernando Guadaño	8614
COMPETENCE MANAGEMENT AND EMPLOYEE TRAINING: CONTRIBUTION TO MOTIVATION AND PROFESSIONAL PERFORMANCE R. Silva, M. Preza	8615
THE LITERARY TEXT AS AN EDUCATIONAL SUPPORT OF POLITICAL AUTHORITY – A CASE STUDY C. Alexandrache	8616
CHALLENGE-BASED LEARNING FOR THE DEVELOPMENT OF ENTREPRENEURSHIP COMPETENCIES S. Sousa, F. Cortellese, M.F. Casado Claro, S. Marcos Alsina	8623
INFLUENCE OF INTERACTIVE EDUCATIONAL VIDEOS ON BLENDED LEARNING: A CRITICAL REVIEW IN HIGHER EDUCATION J.S. Artal-Sevil, M.S. Valero-Gracia	8628
ROBOTICS IN LANGUAGE LEARNING: A SYSTEMATIC REVIEW E. Psara, A. Parmaxi, A. Athanasiou	8641
DEVELOPING A VIRTUAL REALITY TRAINING SYSTEM FOR AGRICULTURAL MACHINERY R. Stephens, A. Awasthi, K. Crowley, F. Boyle, J. Walsh	8650
FORMATION OF INTERCULTURAL COMMUNICATIVE COMPETENCE OF STUDENTS ON THE BASIS OF TBLT TECHNOLOGY E. Nazmieva, R. Gubaidullina, G. Chumarina	8656
EFFECTIVENESS OF THE EDUCATIONAL PROGRAM 'GOLDEN5' FOR IMPROVING STUDENTS' PSYCHOLOGICAL WELL-BEING AND ACADEMIC ACHIEVEMENT IN PRIMARY EDUCATION MJ. Lera, JM. Leon-Perez, P. Ruiz-Zorilla	8662
THE CHALLENGE OF ACHIEVING GENDER EQUALITY IN NIGERIAN EDUCATION: HINDRANCES FACED BY GIRLS IN SCHOOL L. Audu, A. Lawani	8663
STUDENT-CENTERED CURRICULUM IN THE CONTEXT OF QUALITY INCLUSIVE THEORY AND PRACTICE – SOME KEY DETERMINANTS M. Karamatić Brčić	8669
MENTORING CHAIN IN A COIL EXPERIENCE A. Ayunts, E Dias, E Fernandes, T. Guarino, A. L. Prestes	8677
DIGITAL SKILLS, CULTURAL MANAGEMENT AND ONLINE EDUCATION: A DYNAMIC MODEL TO ADDRESS THE DIGITAL GAP G. Gantzias	8686
EXPLORING FACTORS CONTRIBUTED TO INSTRUCTIONAL COACHES' PSYCHOLOGICAL CAPITAL N. Burhanuddin, N. Ahmad, R. Said, S. Asimiran	8687
EXAMINING 9TH GRADE STUDENTS' AWARENESS OF THEIR CAREER OPTION S. Alsuwaidi	8700
CARE IN EARLY CHILDHOOD EDUCATION AND CARE: A REVIEW OF THE INTERNATIONAL LITERATURE I. Mussini	8701
USE OF ICT IN THE CLASSROOM: A CASE STUDY WITH STUDENTS OF VOCATIONAL COURSES FROM FOUR PORTUGUESE SCHOOLS A.E. Sousa, S. Pais	8708
GAMIFICATION IN EDUCATION: THE USE OF THE ESCAPE ROOM AS A LEARNING STRATEGY A.E. Sousa, S. Pais	8713
3D PRINTED MODELS FROM CT SCANS: PARAMETERS AFFECTING QUALITY OF ANATOMICAL MEDICAL MODELS D. Moeller, K. Budisalich, C. Gunter, T. Kelsey, G. Maddux, B. Schroer	8718
THE IMPACT OF DISTANCE LEARNING ON THE PROGCONT SYSTEM AFTER PANDEMIC P. Biró, T. Kádek	8729

ANALYSIS OF INNOVATIVE AND ENTREPRENEURIAL POTENTIAL OF FIVE WESTERN BALKAN UNIVERSITIES SUPPORTED BY THE HEINNOVATE INITIATIVE T. Velkovski, R. Polenakovikj, B. Jovanovski, M. Velkovska, L. Polenakovikj, N. Shterjova Uzunovska, J. Kostikj	8736
INNOVATIVE DIGITAL INCLUSION STRATEGY FOR MUNICIPALITIES S. Muñoz Hernández, C. Urbano Molina	8745
BUILDING THE CAPACITY OF RESEARCH-INFORMED TEACHING AND LEARNING IN THE BUSINESS, COMMUNICATION, AND SOCIAL SCIENCE DISCIPLINES: THE HONG KONG EXPERIENCE K. Chan, N.Y.M. Siu, G. Lai	8753
FINANCIAL WISDOM IN GENERAL EDUCATION L. Kirch	8757
ENTREPRENEURIAL SCHOOL PROGRAM P. Torm-Mirontšik	8758
THE ENTREPRENEURSHIP AND CAREER EDUCATION PROGRAMME OVERVIEW E. Veide	8759
HOW TO INTEGRATE ENTREPRENEURSHIP EDUCATION INTO SCHOOL LESSONS? <i>P. Granovski</i>	8760
A CASE STUDY OF ETHICAL LEADERSHIP AND TRANSPARENCY IN SELECTED SECONDARY SCHOOLS R. Mestry, D. Edwards	8761
THE ROLE OF SCHOOL LEADERS IN MANAGING PUBLIC SCHOOLS DURING THE COVID-19 PANDEMIC R. Mestry, P. Du Plessis	8762
EXPERIMENTATION WITH MODELS IN THE TEACHING OF BUILDING STRUCTURES IN A SCHOOL OF ARCHITECTURE. FIRST RESULTS C. Olmedo, B. Orta, J. Antuña, M. A. Benito, D. Mencías-Carrizosa, V. Pascual	8763