WELCOME INTRODUCTION

Dear INTED2014 participants,

It is a pleasure to welcome you all to this 8th edition of INTED.

We live in a constantly changing society where innovation, technology and education are the key to the world’s development. For this reason, INTED2014 intends to welcome educational experts from all corners of the world under a common aim: to generate thought-provoking ideas for innovative education and to promote international partnerships.

We have made every effort to bring together participants from all disciplines and cultures. In fact, every year INTED attracts over 600 participants from more than 75 countries world-wide, making it a large annual meeting point for educators, teaching and learning technology experts and researchers.

We hope that your participation to this conference will provide you with an opportunity to share best practices, open your minds to other educational perspectives and explore new horizons.

Valencia, venue of this conference, will provide you with the opportunity to discover a city full of life and history, impressive old and modern architecture and beautiful beaches and natural surroundings.

Thank you very much for coming to INTED2014. We hope that you remember this conference as an inspiring international forum.

We hope you enjoy your time with us!

INTED2014 Organising Committee
### INTED2014 COMMITTEE AND ADVISORY BOARD

<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
<th>Name</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aaron Doering</td>
<td>UNITED STATES</td>
<td>Kem Rogers</td>
<td>CANADA</td>
</tr>
<tr>
<td>Agustín López</td>
<td>SPAIN</td>
<td>Kuntida Chancharoen</td>
<td>THAILAND</td>
</tr>
<tr>
<td>Aistė Bartkevičienė</td>
<td>LITHUANIA</td>
<td>Laurie Burruss</td>
<td>UNITED STATES</td>
</tr>
<tr>
<td>Amparo Girós</td>
<td>SPAIN</td>
<td>Leonard Walletzky</td>
<td>CZECH REPUBLIC</td>
</tr>
<tr>
<td>Ana C.R. Martins</td>
<td>PORTUGAL</td>
<td>Liudmila Mikalayeva</td>
<td>GERMANY</td>
</tr>
<tr>
<td>Ana Tomás</td>
<td>SPAIN</td>
<td>Lorena Lópe</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Andrea Jakobsone</td>
<td>LATVIA</td>
<td>Luis Gómez Chova</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Anja Lorenz</td>
<td>GERMANY</td>
<td>Mª Jesús Suesta</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Anna-Maria Andreou</td>
<td>CYPRUS</td>
<td>Manish Varma</td>
<td>INDIA</td>
</tr>
<tr>
<td>Annette Hilton</td>
<td>AUSTRALIA</td>
<td>Mª de Jesús Araiza Vázquez</td>
<td>MEXICO</td>
</tr>
<tr>
<td>Antonio García</td>
<td>SPAIN</td>
<td>Maria Porcel</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Brigita Janiunaitė</td>
<td>LITHUANIA</td>
<td>Mary Kirwan</td>
<td>IRELAND</td>
</tr>
<tr>
<td>Bruno Guimarães</td>
<td>PORTUGAL</td>
<td>Mohamed Alseddiqi</td>
<td>BAHRAIN</td>
</tr>
<tr>
<td>Chelo González</td>
<td>SPAIN</td>
<td>Mojca Kogovšek</td>
<td>SLOVENIA</td>
</tr>
<tr>
<td>Claudia Dörfer</td>
<td>MEXICO</td>
<td>Mónica Fernández</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Cristina Lozano</td>
<td>SPAIN</td>
<td>Mustahsan Mir</td>
<td>UNITED ARAB EMIRATES</td>
</tr>
<tr>
<td>Dalia Hanna</td>
<td>CANADA</td>
<td>Nate Hongkraitert</td>
<td>THAILAND</td>
</tr>
<tr>
<td>Danny McAtominey</td>
<td>UNITED KINGDOM</td>
<td>Norhayati Ismail</td>
<td>SINGAPORE</td>
</tr>
<tr>
<td>David Martí</td>
<td>SPAIN</td>
<td>Norma Barrachina</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Dragos Ciobanu</td>
<td>UNITED KINGDOM</td>
<td>Olga Teruel</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Eladio Duque</td>
<td>SPAIN</td>
<td>Owen Leed</td>
<td>UNITED KINGDOM</td>
</tr>
<tr>
<td>Fouad Chaatit</td>
<td>MOROCCO</td>
<td>Ozden Sahin Izmirli</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Hanan Maoz</td>
<td>ISRAEL</td>
<td>Özgün Koşaner</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Hendrawan Soetanto</td>
<td>INDONESIA</td>
<td>Panicos Masouras</td>
<td>CYPRUS</td>
</tr>
<tr>
<td>Iain Morrison</td>
<td>UNITED KINGDOM</td>
<td>Peter Haber</td>
<td>AUSTRIA</td>
</tr>
<tr>
<td>Ignacio Ballester</td>
<td>SPAIN</td>
<td>Ryuichi Matsuba</td>
<td>JAPAN</td>
</tr>
<tr>
<td>Ignacio Candel</td>
<td>SPAIN</td>
<td>Sergio Pérez</td>
<td>SPAIN</td>
</tr>
<tr>
<td>Iolie Nicolaïdou</td>
<td>CYPRUS</td>
<td>Shakila Singh</td>
<td>SOUTH AFRICA</td>
</tr>
<tr>
<td>Ismael Serrano</td>
<td>SPAIN</td>
<td>Sheryl Williams</td>
<td>UNITED KINGDOM</td>
</tr>
<tr>
<td>Iván Martínez</td>
<td>SPAIN</td>
<td>Silvia Pokrivcakova</td>
<td>SLOVAKIA</td>
</tr>
<tr>
<td>Jacqueline O'Flaherty</td>
<td>AUSTRALIA</td>
<td>Souad Demigha</td>
<td>FRANCE</td>
</tr>
<tr>
<td>Javier Domenech</td>
<td>SPAIN</td>
<td>Tom Warms</td>
<td>UNITED STATES</td>
</tr>
<tr>
<td>Javier Martí</td>
<td>SPAIN</td>
<td>Umran Topcu</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Jelena Gledic</td>
<td>SERBIA</td>
<td>Valentina Kratasyuk</td>
<td>RUSSIAN FEDERATION</td>
</tr>
<tr>
<td>Jiri Motějek</td>
<td>CZECH REPUBLIC</td>
<td>Valerie Hascoet</td>
<td>IRELAND</td>
</tr>
<tr>
<td>Joanna Lees</td>
<td>FRANCE</td>
<td>Vassilis Bokolas</td>
<td>GREECE</td>
</tr>
<tr>
<td>Jose F. Cabeza</td>
<td>SPAIN</td>
<td>Vladimír Bradáč</td>
<td>CZECH REPUBLIC</td>
</tr>
<tr>
<td>Jose Luis Bernat</td>
<td>SPAIN</td>
<td>Wycliffe Nyaribo</td>
<td>KENYA</td>
</tr>
<tr>
<td>Judith Szerdahelyi</td>
<td>UNITED STATES</td>
<td>Xavier Lefranc</td>
<td>FRANCE</td>
</tr>
<tr>
<td>Judith Yturriago</td>
<td>UNITED STATES</td>
<td>Yun Fat Lam</td>
<td>HONG KONG</td>
</tr>
<tr>
<td>Kai Zhang</td>
<td>PORTUGAL</td>
<td>Zafer Kurtaslan</td>
<td>TURKEY</td>
</tr>
</tbody>
</table>
CONFEREESE SESSIONS

ORAL SESSIONS, 10th March 2014.

- Research on Technology in Education (1)
- Video games for learning
- Experiences in Educational/Serious Games
- Web 2.0 and Social Networking
- Quality Assurance in education (1)
- Meet the Keynote
- Experiences in STEM education
- Education and Globalization

- Research on Technology in Education (2)
- 3D Applications, Augmented and Virtual Reality
- Collaborative and Problem-based Learning (1)
- Technology-Enhanced Learning (1)
- Quality Assurance in education (2)
- Evaluation and Assessment of Student Learning
- Experiences in Business education (1)
- Pre-service teacher experiences

- Virtual Universities and Distance education
- Mobile learning
- Collaborative and Problem-based Learning (2)
- Technology-Enhanced Learning (2)
- Experiences in Foreign Languages education (1)
- Learning Assessment
- Experiences in Business education (2)
- In-service teacher training and development

- International projects
- Collaborative and Virtual Learning Environments (CVE & VLE)
- Computer Supported Collaborative Work
- Social Media and Computer Supported Collaborative Work
- Language learning innovations (1)
- Experiences in Architecture & Urban planning education
- Research & Experiences in Maths education
- ICT skills and competencies among teachers

POSTER SESSIONS, 10th March 2014.

- Pedagogical and Didactical Innovations

- Experiences in Education and Curriculum Design
ORAL SESSIONS, 11th March 2014.

New challenges for the Higher Education Area (1)
Videos for Learning
Workplace Learning programmes
Curriculum Design
Quality Assurance in education (3)
e-Learning
Curriculum Design in Engineering education
Experiences in Health Sciences education (1)

New challenges for the Higher Education Area (2)
Digital Libraries and Open Educational Resources
Work Employability
New Experiences for Curriculum Design
Lifelong Learning
ePortfolios
Experiences in Engineering education
Experiences in Health Sciences education (2)

Barriers to Learning
Flipped & Blended learning
Entrepreneurship education
University-Industry Collaboration
Tutoring and Coaching
Language learning innovations (2)
Enhancing learning in Engineering education
ICTs in Health education

Research in Education
Educational games experiences
Pedagogical & Didactical Innovations. Learning and Teaching Methodologies
Vocational education
Special education & inclusive learning
Experiences in Foreign Languages education (2)
Accreditation & Assessment processes
ICT in primary and secondary education

Links between Education and Research
LMS and managed learning environments
Experiences in Education. New projects and innovations
Technology-Enhanced Learning and Community Development
Competence Evaluation
New Technologies in Foreign Languages education
Impact of Education on Development
Learning experiences in primary and secondary education

POSTER SESSIONS, 11th March 2014.

Technology in Education and Educational Software

New Challenges in Education and Research
INTED2014 TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENHANCING ENVIRONMENTAL SCIENCE CURRICULUM: CLIMATE CHANGE AND ADAPTION STUDIES THROUGH EFFECTIVE COMMUNICATIONS VIA VIDEOCONFERENCE, E-LEARNING, AND INTERNATIONAL EXPERIENCE IN AUSTRALIA</td>
<td>1</td>
</tr>
<tr>
<td>G. Ozbay, S. Sriharan, C. Fan</td>
<td></td>
</tr>
<tr>
<td>ETHNICIZATION OF UNIVERSITY EDUCATION AND NATIONAL DEVELOPMENT: THE NIGERIAN EXPERIENCE</td>
<td>11</td>
</tr>
<tr>
<td>M. Duruji, S. Joshua, P. Olanrewaju, O. Oviasogie, O. Ajayi, E.R. Loromeke</td>
<td></td>
</tr>
<tr>
<td>VIDEO LEARNING ENVIRONMENT FOR GUIDING STUDENT TEACHERS’ CONSTRUCTION OF ACTION-ORIENTED KNOWLEDGE</td>
<td>24</td>
</tr>
<tr>
<td>RESEARCH IN THE CLASSROOM: TECHNICAL ARCHITECTURE DEGREE AT JAUME I UNIVERSITY</td>
<td>31</td>
</tr>
<tr>
<td>B. Sáez Riquelme, A. Soler Estrela, J.A. García-Esparza, M. Cabeza González</td>
<td></td>
</tr>
<tr>
<td>FLIPPED CLASSROOM ON TOP – EXCELLENT TEACHING THROUGH A METHOD-MIX</td>
<td>40</td>
</tr>
<tr>
<td>L. Koettgen, S. Schröder, E. Borowski, A. Richert, I. Isenhardt</td>
<td></td>
</tr>
<tr>
<td>LITELE: A COLLABORATIVE VIRTUAL ENVIRONMENT FOR KNOWLEDGE MANAGEMENT IN LANGUAGE AND LITERATURE</td>
<td>50</td>
</tr>
<tr>
<td>EUROPEAN CITIZENSHIP LEARNING IN SECONDARY SCHOOLS</td>
<td>59</td>
</tr>
<tr>
<td>M. Codato, C. Galbiati</td>
<td></td>
</tr>
<tr>
<td>THE PARADIGM OF ROMAN LAW CASUISTRY AS A TOOL FOR THE ACQUISITION OF SKILLS IN MANAGING CONFLICTS THROUGH VIDEO ANIMATIONS AND ROLE PLAYS</td>
<td>64</td>
</tr>
<tr>
<td>M.C. Lázaro Guillamón, S. Alvarán López, P. Panero Oria</td>
<td></td>
</tr>
<tr>
<td>DIFFERENT APPROACHES ABOUT “LEARNING FACILITATION”</td>
<td>70</td>
</tr>
<tr>
<td>R. Ramirez</td>
<td></td>
</tr>
<tr>
<td>WITH FUNCTIONS IT IS POSSIBLE TO CREATE CARTOON IMAGES</td>
<td>78</td>
</tr>
<tr>
<td>M.G. Marques, M. Pires</td>
<td></td>
</tr>
<tr>
<td>BELIEFS AND EXPECTATIONS OF TEACHERS ON DIGITAL COMPETENCE AND THE USE OF ICT IN TEACHING</td>
<td>84</td>
</tr>
<tr>
<td>F. Falcinelli, C. Laici</td>
<td></td>
</tr>
<tr>
<td>TUTORIAL PLANNING IN THE UNIVERSITY OF EXTREMADURA AND ANGLO-SAXON UNIVERSITIES</td>
<td>93</td>
</tr>
<tr>
<td>R. Ramirez</td>
<td></td>
</tr>
<tr>
<td>TEACHERS TRAINING: INNOVATIONS AND MOTIVATIONS</td>
<td>100</td>
</tr>
<tr>
<td>M.G. Marques, M. Pires</td>
<td></td>
</tr>
<tr>
<td>THE VIRTUAL TUTORIALS FOR FINAL DEGREE PROJECTS</td>
<td>107</td>
</tr>
<tr>
<td>J.A. Martínez Maya, M.J. Martínez Pitarch, J.T. Garfella Rubio</td>
<td></td>
</tr>
<tr>
<td>DYNAMIC VISUALIZATION IN 3D OF CHEMICAL STRUCTURES</td>
<td>113</td>
</tr>
<tr>
<td>C.A. Rius-Alonso, Y. González-Quezada</td>
<td></td>
</tr>
<tr>
<td>FROM A PINE TREE TO A PINewood</td>
<td>123</td>
</tr>
<tr>
<td>M.G. Marques, M. Pires</td>
<td></td>
</tr>
<tr>
<td>LINEAR ALGEBRA LECTURES: INNOVATION BASED ON THE USE OF TECHNOLOGIES</td>
<td>128</td>
</tr>
<tr>
<td>M. Pires, M.G. Marques</td>
<td></td>
</tr>
<tr>
<td>ANALYSIS OF ROLE OF NONGOVERNMENTAL ORGANISATIONS IN EDUCATING ON CLIMATE CHANGE ISSUES</td>
<td>134</td>
</tr>
<tr>
<td>D. Blumberga, S.N. Kalnins, J. Gusca, S. Valtiere</td>
<td></td>
</tr>
<tr>
<td>AN INVESTIGATION INTO HOW THE INTERACTIVE MULTIMEDIA CHARACTERISTICS OF HANDHELD TECHNOLOGY CAN BE USED TO FACilitate THE TEACHING OF SENTENCE STRUCTURE</td>
<td>144</td>
</tr>
<tr>
<td>G. Collins</td>
<td></td>
</tr>
<tr>
<td>EVALUATING THE CASE FOR COMPUTER SUPPORTED FACE TO FACE COLLABORATIVE LEARNING TO SUPPLEMENT TRADITIONAL PRIMARY EDUCATION IN THE MEXICAN STATE OF OAXACA</td>
<td>153</td>
</tr>
</tbody>
</table>
URBAN COMMUNITY DEVELOPMENT: PARTICIPATORY LEARNING PROCESS FOR HEALTHY SPACE DEVELOPMENT, PASI-CHAROEN DISTRICT, BANGKOK, THAILAND
K. Chancharoen, N. Hongkrailert

LIVING IN VIRTUAL CLASSROOMS: TEACHERS IN ONLINE LEARNING
M.S. Rogers

COLLABORATIVE DIGITAL STORYTELLING FOR LANGUAGE LEARNING PRIOR TO ERASMUS MOBILITY
O. Gabaudan

IS STUDENTS’ PERFORMANCE IN PRIMARY AND SECONDARY SCHOOLS RELATED POSITIVELY WITH THE USE OF MOBILE TECHNOLOGY AND MOBILE LEARNING IN THE CLASSROOM?
A. Boulind, D. Méndez Coca, A. Conde Vilar

ASSESSMENT OF PROFESSIONAL TEACHING DISPOSITIONS IN THE VIRTUAL CLASSROOM: THE VIRTUAL TEACHING DISPOSITIONS SCALE (VTDS)
A. Welch, B. Hill, L. Napoleon, B. Rook

DOUBLE TROUBLE: INTEGRATED TEACHING OF FOREIGN LANGUAGES
A. Skledar, Mattijević, A. Krakić, N. Jurina Babović

LEARNING PROCESS OF THE STEEL USE IN BUILDING ENGINEERING STUDENTS
C. Cabrera, C. Morón, A. García

ISO 17024 COMPLIANT ACADEMIC TUTOR CERTIFICATION SCHEME
S. Jacquemart, J. Menthonnex, D. Blanc

STUDENTS’ PERCEPTION OF PERFORMANCE VS. ACTUAL PERFORMANCE DURING COMPUTER-BASED TESTING: A TEMPORAL APPROACH
Z. Papamitsiou, A. Economides

A STRUCTURED PROCESS FOR TECHNOLOGY EDUCATION CURRICULUM DESIGN IN BASIC AND SECONDARY EDUCATION
N. Gutiérrez, M. Calvo, J. Ramírez, F. Olarte

ROLE OF SOCIAL NETWORKS IN HIGHER EDUCATION IN THE CONTEXT OF THE FACULTY OF PEDAGOGY AND INNOVATIVE EDUCATION

COMMERCIALIZATION OF COLLABORATIVE INDUSTRY-ACADEMIA RESEARCH PROJECTS: A ROADMAP APPROACH
A. Elsayad

TEACHING DRAWING: AN INTERDISCIPLINARY PEDAGOGICAL EXPERIENCE IN A GRAPHIC DESIGN COURSE
S. Jorge, S. Dias

A SYSTEMS APPROACH TO DISTANCE EDUCATION (DE) - INITIAL CONCEPTUALISATION AND PROPOSAL
S. Basahel, J.R. Córdoba-Pachón

SKILLS ASSESSMENT UNDER THE COMPREHENSIVE REFORM OF HIGHER SECONDARY-EDUCATION: THE CASE STUDY OF THE CENTER OF TECHNOLOGICAL AND AGRICULTURAL BACCALAUREATE (CTAB) NO. 198, IN BAJA CALIFORNIA MEXICO
S. Vázquez Acevedo, V. Santa Rosa López, F.J. Arriaga Reynaga

STUDENTS’ SELECTION FOR A MASTER DEGREE
R. Fernández-Pascual, E. Álvarez-Verdejo, P. Fernández-Sánchez, L.J. Barroso Bravo

EFFECTS OF THE TRANSFER DESIGN ON POST-TRAINING PERFORMANCE IN ELEARNING
M. Cartaxo, E. Simões

HAS THE LECTURER DISAPPEARED? M.ED. STUDENTS’ PERCEPTIONS ABOUT THE ROLE OF THE LECTURER IN A FULL DISTANCE LEARNING COURSE
E. Salman, A. Fattum

FINANCIAL LITERACY EDUCATION: KEY TO POVERTY ALLEVIATION AND NATIONAL DEVELOPMENT IN NIGERIA
S. Faboyede, E. Ben-Caleb, B. Oyewo

THE TEACHER AND THE INTEGRATION OF THE GRAPHING CALCULATOR VIEWING WINDOW IN THE TEACHING OF MATHEMATICS
H. Rocha

DEVELOPMENT AND CONSTRUCTION OF A VIRTUAL LEARNING ENVIRONMENT ON PRESSURE ULCER PREVENTION

X
OUTCOMES
J.A. Carroll, J. Rodgers, M. Sankupellay, M. Newcomb, R. Cook

COOPERATIVE LEARNING IN PRIMARY SCHOOL: A PRACTICAL EXERCISE 648
R. Tammaro, M. Calenda, A. D’Alessio

MUSIC EDUCATION THROUGH INNOVATION: THE CONCORDIA LAPTOP ORCHESTRA AS A MODEL FOR TRANSFORMATIONAL EDUCATION 657
E. Tsabary

PHENOMENON OF EXCELLENCE AT FUTURE TEACHERS TRAINING 665
J. Hadatović, J. Laitochová, M. Uhlířová

ICT IMPLEMENTATION IN HIGHER EDUCATION. CASE STUDY OF FACULTY OF INFORMATICS, UNIVERSITY OF HRADEC KRALOVE, CZECH REPUBLIC 671
I. Šimonová, P. Poulová

E-LEARNING SUPPORTED BY SOCIAL COMPUTING TOOLS 679
P. Poulová, I. Šimonová

SCHOOL IMPROVEMENT AS A RESULT OF EXTERNAL PRESSURE, VERSUS, AS A RESULT OF PERSONAL AWARENESS AND REFLECTION 685
O.H. Kaldestad

UNDERGRADUATE TEACHER TRAINING - SPACE FOR SHAPING VALUE ORIENTATION OF UNIVERSITY STUDENTS 692
M. Sirotová, E. Smetanová

RELATIONSHIPS BETWEEN VARIATIONS OF PERSONAL CHARACTERISTICS AND EDUCATIONAL EFFECTIVENESS ON SOFTWARE INTENSIVE SYSTEMS DEVELOPMENT 698

E-PORTFOLIO RECOMMENDATION SYSTEM USING LDA 707
Y. Kato, M. Ueno

EVALUATION AND COMPARISON OF READABILITY INDEXES FOR EFL READERS 717
D. Picca, P. Angelino

PRACTICE OF PHYSICAL EDUCATION CLASSES UTILIZING VIDEO 725
Y. Tanaka, S. Murakami, C. Kakoi, T. Wada, H. Takahashi

DESIGN GUIDELINES FOR DEVELOPING COMPETENCY BASED E-LEARNING MODULE IN PROFESSIONAL EDUCATION FOR BIOMEDICAL SCIENCES 730
C.W. Kho, A. Sen, K.K. Tha, L. Selvaratnam, S.H. Ton

ICT ENHANCED FOREIGN LANGUAGE TEACHING AND LEARNING 742
I. Šimonová

THE EFFECT OF IMMEDIATE ONLINE PEER FEEDBACK IN AN ENGLISH FOR SPECIFIC PURPOSES BLENDED COURSE 749
K. Katsampoxaki-Hodgetts, K. Divini, M. Koutraki, M. Pitsaki, F. Sweeney-Androulakis

PERSONAL DEVELOPMENT FOR STUDENTS AND RESEARCH ASSISTANTS IN ELECTRICAL ENGINEERING 761
J. Kammermann, C. Bertram, A.W. Ebentheuer, W. Mayer, H.G. Herzog

POTENTIAL USE OF REFLECTIVE WRITING FOR STUDENT EVALUATION IN MOOCS 768
R. Ichii, C. O’Dwyer

OPINION OF STUDENTS ABOUT THE UNIVERSITY OF GRANADA TUTORIAL PLAN "FARMAEMPLEO, NUTRIEMPLEO AND TECNOEMPLEO" 777

WHAT WE MEAN WHEN WE TALK ABOUT FREEDOM - THE KOMFOR STUDY: AN ANALYSIS OF STUDENTS’ CHOICES OF COURSES IN INTERDISCIPLINARY PARTS OF THE CURRICULUM 780
A. Seifert, C. Strunz, M. Gunkel, J. Schütz

EXAMINING THE LEVEL OF INNOVATION AND R&D ACTIVITIES IN BOSNIA AND HERCEGOVINA AS A KEY PILLAR FOR KNOWLEDGE ECONOMY DEVELOPMENT 788
S. Djonlagic, B. Umithanic, A. Delic

ENGINEERING UNDERGRADUATES’ PERCEPTION OF TRANSFERABLE SKILLS IN HONG KONG 796
L.Y.Y. Luk, R.M.H. Ho, C.S.L. Yeung, C.K.Y. Chan

FACULTY PARTICIPATION IN ADOPTION OF E-LEARNING IN HIGHER EDUCATION 803
S. Tarig, A. Hanif, S. Hameed

INTERFACE FOR MUSIC EDUCATION AND CREATION BY CHILDREN WHO ARE 810
BLIND OR AFFECTED WITH AUTISM SPECTRUM DISORDERS
C. Hernandez, K. Kelber, B.N. Glinzig, M. Bríceño Mezquita

A REVIEW OF LITERATURE ON CHALLENGES & OBSTACLES TO IMPLEMENTATION OF GENERIC SKILLS
R.M.H. Ho, L.Y.Y. Luk, C.K.Y. Chan

PRELIMINARY RESULTS OF AN INTEGRATED LEARNING APPROACH IN STUDENTS OF SECOND YEAR NURSING DEGREE

COMMUNITIES OF PRACTICE AS A WAY OF ENHANCING THE ENTREPRENEURIAL PEDAGOGY IN UNIVERSITIES
K. Nordell

THE USE OF QUICK-RESPONSE CODES AS A TEACHING TOOL APPLIED TO EXPERIMENTAL FLUID MECHANICS

BASIC EDUCATION TEACHERS’ CONCEPT OF EFFECTIVE TEACHING: INPUTS TO TEACHER EDUCATION CURRICULUM IN THE PHILIPPINES
E.L. Abulon

THE IMPACT OF PROFESSIONAL EDUCATION MASTER OF BUSINESS ADMINISTRATION (MBA) TO CHANGES IN THE AREA OF PERSONAL AND MANAGERIAL SKILLS ON SELECTED MAYORS AND DEPUTY MAYORS FROM THE CZECH REPUBLIC
L. Herout, V. Beneš

CRACKING ANALYSIS BY NUMERICAL METHODS AS A TOOL FOR DESIGN OF BRICK FAÇADES
F. Cabel, J. Vërcher, Á. Mas, E. Gil, Q. Angulo, M.E. Torner

HAND DRAWING IS A FANTASTIC WAY TO LEARN CONSTRUCTION
V. Blasco, Á. Mas, C. Lerma, F. Cabel, G. González, V. Quiles

INTEGRATION OF INFORMATION AND COMMUNICATION TECHNOLOGIES IN TEACHING MATHEMATIC WITH A NEW SOFTWARE (CABRÌ ELEM): LESSONS FROM SWITZERLAND
L. Addimando, E. Casabianca

THE USE OF GOOGLE DOCS IN CO-ASSESSMENT: AN EXPERIENCE IN SEVEN DEGREES OF THE COMPLUTENSE UNIVERSITY OF MADRID
M. Blázquez Rodríguez, E. Isorna Alonso, E. Vara Ameigeiras, S. Paredes, I. Solbes Canales

I LIKE MY DEGREE AND I AM PERSEVERANT, WILL THAT HELP ON THE "DATA ANALYSIS" SUBJECT?
P. Jara, F. Herrero, J. Rosel, J. Pallarés

THE INFLUENCE OF RELATIONAL COORDINATION IN THE POSITION OF UNIVERSITIES IN THE QUALITY RANKINGS AT ECUADOR

THE LEVEL OF IMPLEMENTATION OF LEARNER-CENTERED TEACHING IN THE CLASSROOM
M.A. Hinosolango

TEACHERS BECOMING FACILITATORS OF LEARNING
A.G. Nyström

IS MENTORING NECESSARY IN UNIVERSITY TEACHING?
M.E. Morales, C. Cabrera, M.A. Ruiz

A CORPUS BASED STATISTICAL ANALYSIS OF THE PECULIAR LEXICON OF ITALIAN WRITTEN AND SPOKEN ACADEMIC DISCOURSE THROUGH THE USAGE OF TWO PARAMETERS: FREQUENCY AND KEYNESS
D. Peppoloni

THE IMPACT OF TEAMWORK QUALITY IN UNIVERSITY ORGANIZATIONAL ROUTINES TO REACH BEST RESULTS
C. De Pablos-Heredero, A. García-Martínez, Y. Torres, E. Angón Sánchez de Pedro

DYSLEXIA, THEATRE AND FOREIGN LANGUAGES: BECAUSE STUDYING A FOREIGN LANGUAGE IS NOT A DRAMA
D. Peppoloni

VALUES EDUCATION IN THE CONTEXT OF ENGLISH LANGUAGE LEARNING AND INSTRUCTION: CLASSROOM BASED ACTION RESEARCH
C. Báez Velázquez
EVALUATION AMONG CLASSMATES: A TOOL TO ACQUIRE COMPETENCES
H. Vila Suárez, C. Ferragut, J.M. Cancela 1122

CONFRONTING THE ADVISABILITY OF IMPLEMENTING VIRTUAL LABS FOR ONLINE TEACHING OF PRACTICAL SKILLS: A SPECIAL CASE IN AN OPTICS LAB

CURRICULUM DEVELOPMENT: CHALLENGES AND PERSPECTIVES
I. Grdzelidze, G. Gavtadze, K. Sirbiladze, N. Alavidze 1129

RELIABILITY BETWEEN CLASSMATES PEER EVALUATION AND CONCORDANCE DEGREE WITH TEACHERS EVALUATION
J.M. Cancela, H. Vila Suárez, C. Ferragut 1132

EVOLUTION OF SCIENTIFIC CONCEPTIONS AND KNOWLEDGE AMONG GYMNASIUM PUPILS
E. Di Scala-Fouchereau, P. Ricaud, N. Pinsard, R. Andres 1137

GLP-TOOL - AN ACTIVE LEARNING TECHNICAL TOOL FOR GRAPHICAL LINEAR PROGRAMMING
S. Fernandes, J.C. Pereira 1143

REVITALIZING THE QUALITY CIRCLE APPROACH FOR IMPROVING QUALITY OF TECHNICAL INSTITUTES IN INDIA
A. Potnis, C.S. Rajeshwari 1153

THE TRANSITION FROM BEING A CONVENTIONAL ENGLISH FOREIGN LANGUAGE TEACHER TO A SELF-INSTRUCTION AND ONLINE FACILITATOR: TEACHER REFLECTIONS
C. Báez-Velázquez, J. Tello-Carrillo 1160

THE DEVELOPMENT OF CREATIVE COMPETENCES OF EDUCATORS AND TEACHERS: AN EXPLORATORY RESEARCH
B. De Angelis, L. Vitale, P. Botes 1164

ANALYSIS OF FLIP CLASSROOM MODEL FOR STUDENT-LEARNING
P. Pathak 1174

ERROR ANALYSIS IN TWO TYPES OF WRITING OF FORM FIVE ESL STUDENTS
M.Y. Yahya, N.H. Hashim 1180

STRENGTHENING MIDWIFERY EDUCATION: CHANGE STRATEGIES IN CURRICULA
D. Sardo, A. Pinheiro, V. Henriques 1188

CAUSES OF WRITING ERRORS AMONG SECONDARY SCHOOL ESL STUDENTS
M.Y. Yahya, N.H. Hashim 1197

A SOCIOLOGICAL VIEW OF CAREER PATHS OF POST-DOCTORAL STAFF IN SCIENCE AND INDUSTRY IN A SOCIAL CONTEXT
J. Lemm, A. Fuhrmann, R. Häußling 1205

UNIVERSAL DIMENSION OF LOCAL HERITAGE - THE CITY THROUGH THE ARCHITECTURAL PRISM - EDUCATIONAL PROJECT IN GLIWICE, UPPER SILESIA
M. Zmudzinska-Nowak 1208

REAL-TIME MONITORING AND FACEBOOK EVENTS: NEW SOCIAL MEDIA TOOLS FOR PROMOTING ONLINE INTERACTION AND PUBLIC ENGAGEMENT IN SCIENCE
B. Battrawi, R. Muhtaseb 1215

MACHINE TRANSLATION AS A TOOL IN LEARNING OF ENGLISH AS A FOREIGN LANGUAGE
K. Kotani, M. Uchida 1221

ENHANCING TECHNOLOGY USE IN A TECHNICAL COMMUNICATION CLASSROOM AT A TECHNOLOGICAL UNIVERSITY IN SWEDEN
O. Menagarishvili 1226

MOBILITY AND EMPLOYABILITY OF ERASMUS GRADUATES OF THE UNIVERSITY OF DEUSTO
A. Moro Inchaurtieta, L. Villardón-Gallego, B. Guerreño-Omíl, A. Arruti Gómez, I. Elexpuru Albizuri 1233

ASSESSING THE EFFECTIVENESS OF A PROBLEM-BASED COMPUTER MODELLING MODULE FROM THE STUDENT’S PERSPECTIVE
G. Keane, B. Bowe 1242

OPINIONS OF THE MOBILITY HEADS OF THE UNIVERSITY OF DEUSTO ON THE ERASMUS EXPERIENCE
A. Moro Inchaurtieta, A. Arruti Gómez, I. Elexpuru Albizuri, B. Guerreño-Omíl, L. Villardón-Gallego 1248

DEVELOPMENT OF RUBRICS FOR ASSESSING GENERAL COMPETENCES IN
SUBJECTS RELATED TO THE ENVIRONMENT AND CONSERVATION OF FOREST ECOSYSTEMS

THE DEVELOPMENT OF INFORMATION COMMUNICATION TECHNOLOGY COMPETENCIES TO ENSURE THE COMPETITIVENESS OF TEACHERS
K. Briksme, A. Samusevica

SCALABLE, LARGE SCALE LECTURE CAPTURING
F. Naesje, K. Collin, A. Steen

DEFINITION AND EVALUATION OF LEARNING OUTCOMES FOR AN ENGINEERING THERMODYNAMICS MODULE
J. Gerber, N. Rumler, S. Staude

COORDINATION AND INTEGRATION OF STUDENT WORKLOAD AT THE MEDICINE DEGREE OF THE UNIVERSITY JAUME I. A NOVEL VIRTUAL TOOL
F. Ros-Bernal, A.M. Sanchez-Perez, M. Muriach-Sauri, J.E. Yuste, C. Martinez-Cadenas

QUALITY ASSURANCE IN NIGERIAN UNIVERSITIES: THE ROLE OF THE NATIONAL UNIVERSITIES COMMISSION
C. Akpan

ASSESSMENT OF THE WORKING TIME OF STUDENTS IN THE APPLICATION OF PROJECT ORIENTED LEARNING IN AN EXPERIMENTAL COURSE OF CHEMICAL ENGINEERING
M. Sancho, B. García-Fayos, J.M. Arnal

DO ACTIONS AND METHODS IN GUIDANCE FOR OLDER WORKERS EXIST IN SPAIN?
M.J. López-Sánchez, J.A. Belso-Martínez

OPINIONS OF PARENTS, THE COMMERCIAL SOCIETY, AND UNIVERSITY GRADUATES ON INCORPORATING PROGRAMMING LITERACY IN THE ELEMENTARY CURRICULUM
A. Hammoud, A. Shatila, N. Adada

TEACHER SATISFACTION WITH THE PROJECT-BASED LEARNING METHODOLOGY IN TECHNICAL ARCHITECTURE AT THE UNIVERSITAT JAUME I
V. Civera, T. Gallego, M. Braulio, L. Reig

A ROLE PLAYING APPROACH TO TEACH SAFETY, ENVIRONMENT AND ORGANIZATION SKILLS IN A CHEMICAL ENGINEERING COURSE
B. García-Fayos, M. Sancho, J.M. Arnal

TOWARDS INTERNATIONALISATION IN A TECHNICAL ARCHITECTURE DEGREE
M.J. Rudi, L. Reig

TEACHING EXPERIMENTAL PHYSICS THROUGH ACADEMIC EXPERIENCES
E. Rilo Siso, M. Domínguez-Pérez, S. García-Garrab, O. Cabeza

TESTING THE HOPE COURSE: MAIN CONCLUSIONS
M.J. López-Sánchez, J.A. Belso-Martínez

UNIVERSITY AND INDUSTRY COMING TOGETHER IN PARTNERSHIP: REMOVING BARRIERS THROUGH IDENTIFYING MISMATCHED PERCEPTIONS
L. Wilson, I. Wilson

ASSESSMENT ANALYSIS OF ICT SKILLS IN STUDENTS OF PRIMARY TEACHER TRAINING AT CAMPUS UC IN VILLARRICA
A. Canales, L. Fuentes, C. Errazuriz

OPEN EDUCATIONAL RESOURCES AS AN OPPORTUNITY FOR ACCESS TO LEARNING FOR PEOPLE WITH DISABILITIES IN LATIN AMERICAN AND CARIBBEAN
R. Navarrete, S. Luján-Mora

LEARNING PHARMACOVIGILANCE OF VETERINARY MEDICINES
J.A. Gilabert, M.T. Encinas, J.M. Ros-Rodríguez

NAO™, THE HUMANOID ROBOT IN PRESCHOOL CLASSROOMS
J. Alba, T. Ghitis

DESIGN SERIOUS GAMES FOR INFORMAL EDUCATION: CASE STUDY
A. Teles Vieira

PROGRAMMES OF NURSERY SCHOOL EDUCATION IN POLAND
A. Klim-Klimaszevskak

AN ALTERNATIVE TO THE TRADITIONAL PHYSICS ASSESSMENT: A COMPARISON

BETWEEN TWO DIFFERENT WRITTEN TESTS MODALITIES
M.R. Escobar, A. Arias

PERCEPTION AND LEARNING THROUGH AN ACTIVE PLAY ACCOUNTING METHODOLOGY
C. Queiro-Ameijeiras, R. Sanchidrian-Pardo

IMPROVING STUDENTS ACADEMIC SKILLS BY MAKING USE OF GROUP WORK
K. Muhandji, M. Muningen, S. Mnafani

NURSERY SCHOOL EDUCATION IN THE CONTEMPORARY SYSTEM OF EDUCATION IN POLAND
A. Klim-Klimaszewska

MOOCS GONE WILD
S. Sanchez-Gordon, S. Luján-Mora

GET A LIFE! A FUTURE WORK LIFE SIMULATION TOOL FOR UNIVERSITY STUDENTS
J. Ollila, L. Jokinen, V. Ilkkala

AN INTERACTIVE VIDEO-SIMULATION BASED TRAINING TOOL FOR CPR: A RANDOMISED TRIAL IN FLEMISH SECONDARY SCHOOLS
V. Van Raemdonck, K. De Martelaer, D. Aerenhouts

OBJECTIVE STRUCTURED CLINICAL EXAMINATION AS EVALUATION TOOL FOR PSYCHOMOTOR SKILLS IN ORTHOPAEDICS: ANALYSIS ON PERCEPTION AND ATTITUDE OF EXAMINERS AND STUDENT PERFORMANCE
S.Y.Z. Chong, N. Kumar, F. Han, L. Shen, S. Das De, S. Das De

WHAT INFLUENCES STUDENTS TO STUDY INFORMATION AND COMMUNICATION TECHNOLOGY?
K. Kori, H. Altin, M. Pedaste, T. Palts, E. Tõnisson

OPEN EDUCATIONAL RESOURCES (OER): WHAT ARE THEY? WHERE ARE THEY? AND WHAT WILL THEY MEAN TO THE SCHOOLS SECTOR?
B. Phillips

"DISCIPLINARY ORIENTIRING" AT SCHOOL
G. Cappuccio

INTERGENERATIONAL COMMUNICATION AND CONSOLIDATION OF THE METACOGNITIVE COMPETENCE
G. Cappuccio

VISUALIZATION OF NON-OSTENSIVE MATHEMATICAL OBJECTS AS GEOMETRIC INTERPRETATIONS OF SEMIOTIC REGISTERS IN ALGEBRAIC SETTING
L. Sbitneva, N. Moreno Martínez, R. Valdez Delgado

THE DEVELOPMENT OF COMMUNICATION MODEL FOR URBAN DEVELOPMENT ON HEALTHY SPACE IN PASI-CHAROEN DISTRICT, BANGKOK, THAILAND
N. Hongkrailert, K. Chancharoen

AN INVESTIGATION INTO FACTORS THAT DRIVE INTER-GENERATIONAL FAMILY MEMBERS' ENTREPRENEURIAL SPIRIT: ENHANCING SMOOTH SUCCESSION IN FAMILY BUSINESSES IN BOTSWANA
R. Chirau

STANDARDISED CLINICAL EXAMINATION VIDEOS IN ORTHOPEDICS – AN EFFECTIVE PRE-ASSESSMENT REVISION TOOL FOR UNDERGRADUATE MEDICAL STUDENTS
N. Kumar, F. Han, S.Y.Z. Chong, S. Das De, S. Das De, H.K. Wong

THE EFFECTS OF IMPLEMENTING 'SKYPE' INTO EAP CLASSES TO DEVELOP ORAL SKILLS
C. Seganci

OBSERVATORY OF EDUCATIONAL POLICIES OF THE REGION OF ODEMIRA – AN INNOVATIVE TOOL IN THE RESEARCH AND DEFINITION OF LOCAL EDUCATIONAL POLICIES AND PRACTICES

PRELIMINARY DATA OF AN AUGMENTED REALITY TRAINING PROGRAM FOR SAFETY AT WORK IN HOSPITALS
S. Quero, M.A. Pérez-Ara, D. Campos, S. Cortés-Díaz, E.J. Collado, R.M. Baños, C. Botella

WEB-BASED ARABIC TEXT READABILITY INDEX
N. Mat Daud, H. Hassan, S. El-Tingari, N. Abdul Aziz

PRIMARY SCHOOL PEDAGOGY STUDENTS’ MATHEMATICAL WORD PROBLEM SOLVING SKILLS
I. Marchis
INVESTIGATING THE FACTORS INFLUENCING BHUTAN’S TEACHERS’ USE OF ICT IN TEACHING
U. Norbu, S. Salleh

USING THE WHEATSTONE BRIDGE AS A TOOL FOR ACTIVE LEARNING
C.P. Suarez, E. Arribas, I.M. Escobar, A. Nájera, M. Ojeda, A. Rojas

BIOETHICS RELATED TO STUDENTS ENROLLED AT MEXICAN DENTISTRY AND MEDICINE UNDERGRADUATE AND GRADUATE PROGRAMS
A. Mejía Estrada, M. Tapia Ruiz, D. Serrato Ochoa, R. Nieto Aguilar

IMPACT OF INTEGRATED CONTINUOUS EVALUATION ON ACADEMIC PERFORMANCE AND SUCCESS IN GEOMATICS APPLIED TO CIVIL ENGINEERING
M. Marchamalo, R. Martínez-Marín

TRANSVERSAL SKILLS DEVELOPMENT IN GEOGRAPHIC INFORMATION SYSTEMS FOR CIVIL ENGINEERS
M. Marchamalo, R. Martínez-Marín, I. Herraiz

COMPARISON OF DECISION-MAKING STRATEGIES OF FARMERS IN KEMBATA TEMBARO ZONE (ETHIOPIA) BASED ON LAND IMPROVEMENT TECHNIQUES ADOPTION AND STATUS OF FARMERS
L. Peskova, J. Mazancova

OBSTACLES AND SOLUTIONS FOR THE CURRENT INCLUSIVE EDUCATION POLICIES AND PRACTICES IN ROMANIA
C. Vlaicu

TEACHING INFORMATION TECHNOLOGY IN BUSINESS ADMINISTRATION COLLEGE COURSE
R. Padula

PROMOTING THE PROVISION OF INCLUSIVE PRIMARY EDUCATION FOR CHILDREN WITH DISABILITIES IN MASHONALAND WEST PROVINCE, ZIMBABWE
M. Deluca, C. Tramontano, M. Kett

FILM-INDUCED LEARNING OR HOW TO DEVELOP INTERCULTURAL AWARENESS IN ESP
E. Montañés-Brunet

ASSESSMENT OF LIVELIHOOD STRATEGIES IN SELECTED RURAL AREAS IN SYRIA
K. Ibrahim, J. Mazancova

THE USE OF CUT-OUT PAPER AS METHODOLOGY OF EXPRESSION GRAPHICS ADVANCED, FOR THE UNDERSTANDING OF SPACE AND ARCHITECTURE
M.J. Máñez Pitarch, J.T. Garfella Rubio, J.A. Martínez Moya, T. Colom Artola

PUBLIC POLICIES FOR TECHNICAL EDUCATION IN TIMOR-LESTE: THE PROFESSIONALIZATION OF YOUNG POPULATION
G. Moraes

AN ELECTRONIC LEARNING ENVIRONMENT FOR GREEK-LANGUAGE INTERCULTURAL EDUCATION IN THE DIASPORA
V. Kourtis-Kazoullis, G. Spantidakis, A. Chatzidaki

A SYSTEM FOR AUTOMATIC GENERATION OF EXERCISES

THE ROLE OF DIGITAL TOOLS IN BRIDGING THE GAP BETWEEN COMPETENCY-BASED EDUCATIONAL POLICY AND PRACTICE IN SPAIN
S. Alcaraz-Domínguez, M. Barajas

THE EVET2EDU PROJECT, DISTANCE LEARNING FOR VET TEACHERS IN EUROPE
R. Stockert, K. Arnesen, K. Bjorkli

PILOTABLE FRAMEWORK FOR OVERCOMING BARRIERS IN LEARNING IN NIGERIAN EDUCATIONAL SYSTEM
Z. Omogbadegun

PROMOTING ABILITIES AND SKILLS USING SERIOUS GAMES
N. Peña Miguel

HERITAGE AS A WAY OF LEARNING: TOPOGRAPHIC SURVEYS APPLIED TO BUILDING ENGINEERING
M.J. Máñez Pitarch, J.T. Garfella Rubio, J.A. Martínez Moya, T. Colom Artola

AN INTERNET MEME AS AN ELEMENT OF INTERCULTURAL COMMUNICATION
A. Poškienė

HIGH FIDELITY CORONARY ARTERY BYPASS SIMULATION
S. Das De, S.K. Krishna
PROMOTING DIGITAL COMPETENCE FROM UNIVERSITY
J. Bilbao, E. Bravo, C. Varela, O. García, M. Rodríguez, P. González
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LEARNING PHYSICS IN DIGITAL LABS
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THE TEACHING OF DIFFERENTIAL AND INTEGRAL CALCULUS AND LINEAR ALGEBRA DISTANCE: LIMITS AND POSSIBILITIES
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TEACHING ENGINEERING DEGREE IN THE UNIVERSIDAD POLITECNICA MADRID
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METODOLOGY APPLIED IN THE INVESTIGATION AND CATALOGING OF THE WINE ARCHITECTURE. APPLICATION FOR THE EDUCATION IN THE LECTURE HALL
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Y. Karfaa, F. Haq
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A VIRTUAL LABORATORY TO STUDY EXPERIMENTAL SEMIVARIOGRAMS
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E. Barelles Vicente, R. Giménez Ibáñez
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STRATEGIC EVALUATION OF A M.SC. DEGREE IN CONSTRUCTION MANAGEMENT: A FACULTY VS. STUDENTS COMPARISON
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STUDENTS' EXPERIENCES ABOUT USING INFORMATION TECHNOLOGY INTO A MENTORING PROGRAMME IN HIGHER EDUCATION
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LEARNING EXPERIENCE ON GEOTECHNICAL ENGINEERING BY USING PROJECT BASED LEARNING AND SOCIAL MEDIA
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U. Schmitt
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Y. Karfaa, F. Haq
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S. Segado, V. Yepes, J. Catalá, E. Pellicer
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GLOBALIZATION AND ENGLISH FOR SPECIFIC PURPOSES
R.S. Stan
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M.I. Torres López, P. Lorite Martínez, T. Palomeque Messia, M.J. Colmenero Raiz, C. Vizcarro Guarch
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FINAL DEGREE PROJECTS IN PRACTICES: EXPERIENCES INVOLVING ENTERPRISES IN THE IMPROVEMENT OF UNIVERSITY STUDENTS’ FORMATION
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MUSEUMS AS CENTRES FOR INNOVATION
V. Hui, A. Cooke, R. Law, K. Wu
2045

KNOWLEDGE CONSTRUCTION IN SOCIAL NETWORKS: DOES IT REALLY MATTER?
E. Santana Lisbória, C. Pereira Coutinho
2051

KEY TAKE-AWAYS: DIGITAL FABRICATION’S ROLE IN EXPERIENTIAL LEARNING
V. Hui, A. Cooke, R. Law, K. Khan
2060

E-SCHOOLBOOKS: OPEN OR CLOSED SYSTEMS?
C. De Castro
2067

PEDAGOGICAL INTERVENTION PROGRAM FOR OPTIMIZING MANAGEMENT
2074
STYLES OF PRIMARY SCHOOL TEACHERS
I.R. Herman

NEW FORMS OF ASSESSMENT OF STUDENT LEARNING
M.A. Martinez, M. Martinez, E. Ramos, A. Romero, V. Castellano, I. Ares

STUDENT’S RISK PERCEPTIONS AND PERFORMANCE IN THE MULTIPLE CHOICE EXAMS

THE MENTORING EXPERIENCE AT UNIVERSITY
M.A. Martinez, M. Martinez, E. Ramos, A. Romero, V. Castellano, I. Ares

MAKING THE MAKERS: PUBLIC OUTREACH OF VIRTUAL & FABRICATION TECHNOLOGIES
V. Hui, K. Pu, G. Luk, A. Cooke, N. Khan

ARIDD PLATFORM: CONSTRAINTS AS CATALYSTS
V. Hui, A. Cooke, A. Craig, M. Compeau

INTERDISCIPLINARY COURSES: A PROPOSAL
E. Benetti, C. De Castro

CAN WE DEFINE THE CHARACTERISTICS OF TEACHERS? A PROJECT OF RESEARCH
R. Tammaro, S. Solco

WEB 2.0 INSTITUTIONAL COMMUNICATION FROM PORTUGUESE UNIVERSITIES, AN ANALYSES FROM THE WEBSITES AND THE OPINION FROM THE STUDENTS
P. Lopes, M. Varela

DEVELOPING INTERCULTURAL COMPETENCES THROUGH A SOCIAL NETWORK: THE PROPOSAL OF CALCOTE PROJECT
D. Troncarelli, M. La Grassa

LEADERSHIP QUALITIES OF HEAD TEACHERS AND DISCIPLINE IN PRIMARY SCHOOLS IN ENUGU SOUTH LOCAL GOVERNMENT AREA OF ENUGU STATE OF NIGERIA
H. Anih

LIGHTING & ACOUSTICS LAB FROM IDEA TO PROPOSAL DESIGN IN COMPACT SPACE
N. Sami AbdelAziz

TEACHING MASTER’S STUDENTS IN PUBLIC ADMINISTRATION HOW TO APPRAISE THE METHODOLOGICAL RIGOUR OF SCIENTIFIC STUDIES: A NEW TEACHING APPROACH
M. Ouimet, L. Lapointe

COACHING AND EDUCATION: BACKGROUND, TRENDS AND RESEARCH PROPOSAL AT UNIVERSITY LEVEL
F. Rodríguez Legendre, T. De Dios, P. Castaño, F. Samarán

PERFORMANCES OF TRUST AMONG LEARNERS IN THE CONTEXT OF ONLINE SOCIAL LEARNING: THE SOCIAL DIMENSION OF ONLINE LEARNING
M. Kanaris, J.M. Laffey

EXPLORING THE CHARACTERISTICS OF ALBANIAN SCHOOLS THAT INFLUENCE THE EFFECTS OF GENDER AND SOCIO-ECO-NOMIC STATUS ON STUDENT ACHIEVEMENT: A MULTILEVEL ANALYSIS
P. Shera

DIGITAL GAME BUILDING IN THE TEACHER TRAINING PROGRAMME: HOW IS IT PERCEIVED?
N. Charlier, L. Van Der Stock, S. Bermingham, D. Cropper, J. Duggan, N. Whitton

AN ANALYSIS OF INTERDISCIPLINARY WORK THROUGH THE PRE-SCHOOL AND PRIMARY EDUCATION INTERNSHIP
R. Mateu, J.C. Linares

OUTDOOR ADVERTISING IN THE UNIVERSITY CLASSROOM: A METHODOLOGY OF INNOVATION THROUGH PRACTICE
E. Breva Franch, C. Fanjul Peyró

THE ROLE OF UNIVERSITIES IN THE POST-CRISIS EUROPEAN UNION. STRATEGIES FOR REDESIGNING THE EUROPEAN UNIVERSITIES
P. Dobrescu, L. Radu, A. Bârgăoanu

THE DYNAMICS OF WORK AND THE ROLES OF SCHOOL DIRECTORS IN THE CONTEXT OF MANAGEMENT AUTONOMY
C. Dust, J. Miranda, M. Machado, B. Rocha, D. Andrade

ONLINE TEACHING AND LEARNING IN HIGHER EDUCATION: DYNAMICS,
OBSTACLES AND CHALLENGES
M. Valente, C. Galacho

EDUCARE PROJECT: AN INNOVATIVE TRAINING PROGRAM FOR THE ELDERLY CARER
S. Quero, M.A. Pérez-Ara, S. Nebot, A.M. Dragomir-Davis, A. Oliver, I. Rachyla, R.M. Baños, C. Botella

CLASSROOM EXPERIMENTS AND COMPUTER PROGRAMMING FOR LEARNING ABOUT ECONOMICS: THE CASE OF THE MOAI GAME
M. Schaffernicht, S. Rivero

USE OF OSMOSIS TECHNOLOGIES AND THEIR RECENT ADVANCES IN EDUCATION
M. Khayet

LEARNING BY DOING TO SUPPORT E-LEARNING IN E-HEALTH
N. Corriero, F. Di Tria, E. Pesare, V. Rossano, T. Roselli

QUALITY EVALUATION OF TWO SETS OF OBJECTIVE QUESTIONS USED FOR ON-GOING ASSESSMENT

TOGETHER BUT NOT SCRAMBLED: SHARED PRACTICES WITH ICT TO IMPROVE SOFT SKILLS
J.L. Casado-Sánchez, C. Ruizazcárate-Varela

SOLAR ENERGY SYSTEM DESIGN USING ADVANCED LEARNING AIDS (SOLEDA): AN EU TEMPUS PROJECT
M. Khayet, R. Ghanam, A. Khalil

POSSIBILITIES FOR IMPROVEMENT OF PEDAGOGICAL WORK OF TEACHERS IN THE PROCESS OF FURTHER EDUCATION IN THE CONDITIONS OF THE SLOVAK REPUBLIC
V. Cabanová

INCORPORATING SCIENCE FICTION LITERATURE IN TEACHING SCIENCES
G. Chirlesan, D. Chirlesan

BARRIERS AND FACILITATORS TO DEVELOP COMPETENCIES FOR HEALTH PROFESSIONALS IN THE STATE OF PUEBLA, MEXICO: LESSONS LEARNED
C. Rosas Magallanes, L. Magaña Valladares, M.A. Mejía Arias

OUTCOME BASED EDUCATION IN LIFE SCIENCE SUBJECTS IN UNIVERSITAT POLITECNICA DE VALÈNCIA

DEVELOPING A TEAM-BASED INNOVATION EDUCATION
J. Ramström, A.G. Nyström, J. Lindström

THE IMPACT OF CONTINUING DEVELOPMENT PROGRAMS FOR PROFESSIONALS IN THE EDUCATION FIELD ON STRENGTHENING THEIR SELF-ESTEEM
V. Pestean

DOES ACCREDITATION ASSURE HIGH QUALITY IN EDUCATIONAL PROGRAMS?
P. Gabor, C. Ing

CHANNELLING ADAPTIVE AND SOCIAL LEARNING INTO A UBQUITOUS LEARNING ENVIRONMENT
O.L. Ayoola, E. Mangina

TEACHERS’ PERCEPTIONS ABOUT ONE’S OWN PROCESS OF LEARNING AND ABOUT STUDENT’S LEARNING
L.E. Capita, C. Capita

RAM PAGE: EXPLORING THE RECIPROCAL RELATIONSHIP BETWEEN EDUCATIONAL GAMES AND PLAYERS
B. Holden

DIDACTICAL DECISIONS REGARDING REFLEXIVITY AND CREATIVITY: EXPERIENCE AND FRONTIERS
J. Brefiller, J. Bucher

COMMUNITY PERCEPTION OF USES AND BENEFITS OF AN EDUCATIONAL PARK IN ANTIOQUIA - COLOMBIA
C. Berrío Puerta, A. Aristizabal Lopera, S. Osorio Castrillón, A. Valencia Arias

STUDENTS’ VIEWS ON DIFFERENT LEARNING OBJECTS TYPES
A. Natsis, H. Hornová, T. Mikrópoulos

STEAMING UP EDUCATION WITH APPS IN E-LEARNING
N. Witchey, R. Studd
THE EFFECTIVENESS OF STUDENT TEAM-ACHIEVEMENT DIVISION TO INCREASE SELF-REGULATED LEARNING
R. Arjanggi, E.A. Setiowati
QUALITY ASSESSMENT AND IMPROVEMENT FOR THE BILINGUAL BACHELOR’S DEGREE AND BLENDED LEARNING MASTER’S DEGREE IN COMPUTER SCIENCE ENGINEERING
D.G. Rosado, J.A. Cruz-Lemus, I. De Sivatte, F. Ruiz, E. Fernández-Medina
MIXED METHODS EVALUATION OF AN ONLINE UNDERGRADUATE SYSTEMIC HUMAN ANATOMY COURSE WITH LABORATORY
K.A. Rogers, S. Choi, J. Barnett, S.M. Attardi
WE BUILT IT, THEY CAME AND NOW...CULTURE CHANGE IN A UNIVERSITY
L. Marion, A. Grant, M. Killen, R. Lum, F. Cornelius, K. Holt
DESIGNING LEARNING BASED COMPUTERIZED- ACTIVITIES BY PRE-SERVICE TEACHERS FOR JUNIOR-HIGH STUDENTS
E. Salman, A. Fattum
CHILDREN WITH LEARNING DIFFICULTIES - A CHALLENGE FOR TEACHERS
V. Banciu, K.M. Peter
MOTIVATIONS FOR CHOOSING VIRTUAL LEARNING TOOLS IN STUDENTS OF TECHNOLOGY MANAGEMENT OF METROPOLITAN INSTITUTE OF TECHNOLOGY OF MEDELLIN
J. Lenis Zapata, S. Tilano Tilano, A. Jaramillo Bustos, A. Valencia Arias
DESIGN DETOUR – CREATIVITY VS. TECHNICAL CONSIDERATIONS IN DESIGN PROCESS
A. Ciosek
BETWEEN TRADITION AND AUTHENTICITY: THE TRADITIONAL KNOWLEDGE AND ITS ROLE IN THE CONSTRUCTION OF MULTICULTURAL LOCAL IDENTITIES – THE MIRIITI TOY CASE
D.M. Bento de Lima, H. Alvelos
PROMOTING DYNAMIC SKILLS MATCHING CHALLENGES AND EVIDENCES FROM THE SMART PROJECT
THE KEY COMPETENCIES IN INFORMATION AND COMMUNICATION TECHNOLOGIES OF THE SECONDARY SCHOOL GRADUATES
L. Herout, B. Růžička
USE OF COOPERATIVE LEARNING SCENARIOS IN COMPUTER TEACHING FOR STUDENTS WITH DISABILITIES THROUGH AN E-LEARNING PLATFORM – RESULT OF STUDY
A. Petrou, A. Dimitracopoulou
QUALITY RESEARCH OF HEALTHCARE FACILITIES FOR THE ELDERLY
A. Szwczczenko, I. Benek
THE IMPACT OF TEACHING PRACTICE AND ATTITUDES TO TEACHING ON STUDENT EFFECTIVENESS
K. Széll
DEVELOPING COMMUNICATION THROUGH EDUCATIONAL GAMES WITH PRESCHOOLERS
V. Banciu, K.M. Peter
BLENDED TRAINING FOR TEACHERS LEARNING DEVELOPMENT
S. Khalil, S. Elsherif
DR. STRANGELOVE OR HOW I LEARNT TO STOP WORRYING AND LOVE MICROECONOMICS: FILM CLIPS AS A PEDAGOGICAL TOOL IN ECONOMIC THEORY
A. Gregori, F. Baltar
CHANGES IN E-LEARNING: MOOCS IN PORTUGAL
A.F. Maia, M.M. Borges, D. Sampaio
PRE-SERVICE PRIMARY SCHOOL TEACHERS’ COLLABORATIVE PROBLEM SOLVING SKILLS
I. Marchis
THE ORACULOUS MODEL: A SOCIAL MATCHING SYSTEM
S. Pacheco de Almeida Silva Felício, C. Lage Rebello da Motta, C. Emmanoel Tolla de Oliveira
A BLENDED TEACHING EXPERIENCE IN THE SPANISH UNIVERSITY
P. Panero Oria, P. Dominguez, M.T. Dupla, M.C. Lázaro Guillamón, E.M. Polo 2515

PREDICTORS OF INFORMATICS STUDENTS’ PROGRESS AND GRADUATION IN UNIVERSITY STUDIES
M. Niitsoo, M. Paales, M. Pedaste, L. Siiman, E. Tõnisson 2521

DEVELOPING CONTAMINATED MINDWARE MEASURE
V. Cavojova, E. Ballova Mikuskova 2530

AN EXPERIENCE WITH VIRTUAL LABORATORIES FOR EXPERIMENTAL SCIENCE: THE VCL TOOL
J.M. Molina-Jordá 2538

USE AND DOCUMENTATION OF ASSESSMENT DATA: NEW ONLINE ASSESSMENT RELATED MODULE
A. Mendez, C. Luna, V. Sanchez, Z. Vega, A. Casanova 2545

ANALYSIS OF AGRICULTURAL PRACTICAL EDUCATION IN ANGOLA
J. Mazancova, J. Paulino, K. Rusarova 2553

INFLUENCE OF TEACHING METHODS ON THE LEVEL OF COMPETENCE, AND PERSONAL AND PROFESSIONAL CAREER OF GRADUATES
V. Coll-Serrano, P.J. Pérez-Vázquez, L. Vila-Lladosa 2558

PROJECT WORK TO DEVELOP AND PROMOTE THE ACADEMIC TUTORING AT THE UNIVERSITY LEVEL
J.M. Molina-Jordá 2559

THE ROLE OF A UNIVERSITY CONSULTING CENTER IN THE TRANSFER OF KNOWLEDGE FROM UNIVERSITY TO INDUSTRY
P. Marcin, M. Mrva 2565

HOW TO FACE THE DIDACTICS OF ENVIRONMENTAL SCIENCE WITH INTERCULTURAL GROUPS
O. Mayoral García-Berlanga, M.P. Donat-Torres 2572

IMPLEMENTATION OF QR CODES IN TEACHING MATERIALS
G. Casanova Pastor, J.M. Molina-Jordá 2580

LEARNING NETWORKS: INTERNALIZING INSPIRING WAY OF CHANGE IN HIGHER EDUCATION
M.D. Díaz Noguera, A. Zanfrillo 2587

INFORMATION AND COMMUNICATION TECHNOLOGIES AND HISTORICAL ARCHIVES IN THE TRANSFORMATION OF TEACHING INTO A SIGNIFICANT LEARNING
R. Palmeiro 2593

BRIDGING INQUIRY BASED LEARNING AND SCIENCE EDUCATION ON SOCIO SCIENTIFIC ISSUES: CONTRIBUTIONS TO THE PARRISE EUROPEAN PROJECT
M.R. Ariza, A.M. Abril, A. Quesada, F.J. García 2599

EVALUATION OF THE EFFECTIVENESS OF FLIPPED CLASSROOM VIDEOS
G. Afonso Ferrer, A. García-Barrera 2608

COLLABORATIVE TEACHING AND ART EDUCATION UNIVERSITY EXPERIENCES
A. Soliman, S. Khalil 2614

IT PLATFORM FOR THE OBSERVATION AND ASSESSMENT OF THE QUALITY OF ALBAIDA RIVER
J. Martínez Fort, M.P. Donat-Torres, O. Mayoral García-Berlanga 2623

EXPLORING THE POTENTIALS OF CLOUD COMPUTING IN HIGHER EDUCATION
P. Tumbas, P. Matkovic, M. Sakal, S. Tumbas 2624

E-EXCLUSION AND E-INCLUSION OF STUDENTS WITH VISUAL IMPAIRMENT AT SECONDARY SCHOOLS AND UNIVERSITIES IN THE SLOVAK REPUBLIC
V. Regec 2632

PROJECT HOBIT – ONE LESSON OF BIOLOGY FOR SAVING LIFE – HOW TO TEACH SCHOOL CHILDREN ABOUT STROKE AND HEART ATTACK
H. Pokorna, P. Sobotkova, O. Suchy, V. Svobodova 2637

POSTGRADUATE EUROPEAN COMMON STUDIES IN CONSTRUCTION MANAGEMENT
A. Minasowicz, P. Nowak, E. Pellicer, J.C. Teixeira 2639

USING RUBRICS TO ASSESS THE LEARNING OUTCOMES IN THE SUBJECT OF STATISTICS
S. Carrasco-Arroyo, O. Blasco-Blasco, V. Coll-Serrano 2647

THE IMPORTANCE OF THE STATE OF NEW YORK (USA) "DIGNITY FOR ALL" 2648
STUDENTS’ ACT AND EVIDENCED BASED PROGRAMMING IN ASSURING RIGHTS FOR STUDENTS
L. Tribuzio

STUDENTS’ WILLINGNESS FOR CREATING WEB 2.0 UNIVERSITY CONTENT
M. Sakal, P. Matkovic, P. Tumbas, L. Seres

"TO PUT IT SIMPLY" – TEACHING THROUGH AND ABOUT SIMPLICITY
M. Koenig

NEW TECHNOLOGIES AND LEARNING IN THE EDUCATION OF A QUADRIPLEGIC CHILD IN HOME CARE EDUCATION
I. Milani

DO ERASMUS STUDENTS GET ACADEMIC PAYBACKS FROM THEIR STAY ABROAD? AN EMPIRICAL ANALYSIS OF STUDENTS’ ACADEMIC PERFORMANCE
P.J. Pérez-Vázquez, C. González-Baxausti, E. Montañés-Brunet

SCHOOL OF SURGERY: RESULTS FROM THE LAUNCH OF AN OPEN ACCESS SURGICAL EDUCATION PLATFORM
K. Jones, J. Lund

IMPAIRMENT OF NONVERBAL COMMUNICATION IN PERSONS WITH AUTISM SPECTRUM DISORDERS WITH EMPHASIS ON FACIAL EXPRESSIONS AND RECEPTION DEFICITS
K. Vitásková, A. Říhová

ORGANIZATION OF THE PROFESSIONAL COMMUNITY OF CHEMISTRY TEACHERS IN RUSSIAN FEDERATION
A. Sobolev, D. Isaev

EVALUATION OF THE POSSIBLE IMPACT OF CLICKERS ON THE GRADE OBTAINED BY STUDENTS IN THE RADIOLOGY SUBJECT, AT THE FACULTY OF MEDICINE IN ALBACETE

PROBLEMS OF SCHOOL COEXISTENCE AND INITIATIVES TO ADDRESS THEM
J.A. Pineda-Alfonso

CITIZENSHIP EDUCATION AS AN INTEGRATIVE PURPOSE OF THE CURRICULUM: POTENTIALS AND DIFFICULTIES
J.A. Pineda-Alfonso

MEASURING SERVICE QUALITY IN HIGHER EDUCATION: THE CASE OF "BALTAZAR ADAM KRCELIC" COLLEGE OF BUSINESS AND MANAGEMENT
I. Jemric Ostojic

A HYBRID APPROACH TO INTEGRATING ONLINE, ONSITE, AND DEMONSTRATIONS FOR ELECTRICAL ENGINEERING LABORATORY COURSES
L. Lam, A. Berger

DEVELOPMENT OF A HANDBOOK ON CONSTRUCTION MANAGEMENT FROM A EUROPEAN PERSPECTIVE
E. Pellicer, V. Yepes, J.C. Teixeira, H. Moura, J. Catalá

PROGRESSIVE DEVELOPMENT OF GENERAL SKILLS IN UNIVERSITY STUDENTS OF BUSINESS ADMINISTRATION
E.J. Morales-Fernandez, J.L. Trechera-Herreros, M.S. Castro-Freire

THE IMPACT OF CONCEPT-TEST ACTIVITIES WITH CLASSROOM RESPONSE SYSTEMS (CLICKERS) IN PHYSIOLOGY IN MEDICINE SCHOOL OF ALBACETE

DESIGN OF ACTIVE NOISE CANCELLATION TOOL FOR NOISE ENGINEERING EDUCATION
M.D. Redel-Macías, S. Sarmiento, L. Cubero-Gil, R.D. Rodríguez-Cantalejo, A.J. Cubero-Atienza

COMMUNITY-BASED ICT CARE AND SERVICES CENTER FOR DEVELOPMENT
S. Arafa, S. Safaan, M. Salah

LEARNING TO PROGRAM IN THE CLASSROOM: A CASE STUDY WITH TEACHERS IN A COURSE OF A MASTER’S DEGREE
P.N. Rito

REVISITING CHARACTER EDUCATION FOR STEM EDUCATION MODELS
D. Quarless, F. Nieto-Fernandez, P. Roccanova, J. Ottaviano, R. Shields

THE LEARNING METHODOLOGY OF THE DEBATE AND ITS INFLUENCE ON THE DEVELOPMENT OF SKILLS IN UNIVERSITY STUDENTS
E.J. Morales-Fernandez, J.L. Trechera-Herreros, M.S. Castro-Freire
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>“UNFOLD” - SUPPORTING THE DIALOGUE BETWEEN STUDENTS AND THEIR</td>
<td>2796</td>
</tr>
<tr>
<td>PERSONAL TUTORS USING REFLECTIVE ONLINE TEMPLATES</td>
<td></td>
</tr>
<tr>
<td>R. Chmielewski</td>
<td></td>
</tr>
<tr>
<td>DESIGN AND SIMULATION OF COMPLEX SURFACES BY NEW TEACHING</td>
<td>2804</td>
</tr>
<tr>
<td>METHODOLOGIES</td>
<td></td>
</tr>
<tr>
<td>A. Tinnirello, S. De Federico, P. Szekiela</td>
<td></td>
</tr>
<tr>
<td>WHAT ABOUT? CASE STUDY METHOD IN INFORMATION SYSTEMS</td>
<td>2814</td>
</tr>
<tr>
<td>P.N. Rito</td>
<td></td>
</tr>
<tr>
<td>SUMMER COURSES: MODEL ADAPTATION AND USE OF NEW TECHNOLOGIES</td>
<td>2822</td>
</tr>
<tr>
<td>F.J. Pérez de la Cruz, M.M. Silva Pérez</td>
<td></td>
</tr>
<tr>
<td>A VIRTUAL REALITY VISIT IN A LARGE SCALE RESEARCH FACILITY FOR PARTICLE</td>
<td>2830</td>
</tr>
<tr>
<td>PHYSICS EDUCATION AND PUBLIC RELATION</td>
<td></td>
</tr>
<tr>
<td>T. Bergmann, A. Kopmann, M. Steidl, J. Wolf</td>
<td></td>
</tr>
<tr>
<td>TEACHING PROCESS WITH THE USE OF DIGITAL TECHNOLOGIES FROM VIEW OF THE</td>
<td>2839</td>
</tr>
<tr>
<td>ACTION RESEARCH</td>
<td></td>
</tr>
<tr>
<td>D. Kostrub, R. Tóthová, E. Severini, S. Kikušová</td>
<td></td>
</tr>
<tr>
<td>VIRTUAL PRACTICAL TEACHING VERSUS REAL ONE IN THE SUBJECT OF PHYSICS</td>
<td>2848</td>
</tr>
<tr>
<td>E. Rilo Siso, S. García-Carabal, M. Domínguez-Pérez, O. Cabeza</td>
<td></td>
</tr>
<tr>
<td>Teleradiography implementation in developing countries: Saudi</td>
<td>2851</td>
</tr>
<tr>
<td>Arabian teaching hospital’s radiology departments experience</td>
<td></td>
</tr>
<tr>
<td>W.M. Abutaleb, S. Golding</td>
<td></td>
</tr>
<tr>
<td>SMARTPHONE USE WITH SOCIAL AND EDUCATIONAL PURPOSES IN UPAEP’S</td>
<td>2856</td>
</tr>
<tr>
<td>STUDENTS</td>
<td></td>
</tr>
<tr>
<td>B. Rojas Vélez, A. García Lina, E. Vera Arenas</td>
<td></td>
</tr>
<tr>
<td>METHODOLOGY FOR PROJECTS SUBJECT IN ENGINEERING BASED ON REAL</td>
<td>2866</td>
</tr>
<tr>
<td>CASES</td>
<td></td>
</tr>
<tr>
<td>M.I. Jiménez Gómez, M. Blanco Caballero, A. Sánchez Lité, M. San Martín, E. Parra, J.A. Serrano</td>
<td></td>
</tr>
<tr>
<td>LET’S GO OUTSIDE CLASSROOM TEACHING</td>
<td>2874</td>
</tr>
<tr>
<td>E. Bustos-Contell, G. Labatut-Serer, T. Mariño-Carrido</td>
<td></td>
</tr>
<tr>
<td>USE OF THE INFORMATION AND COMMUNICATION TECHNOLOGIES IN NATURAL</td>
<td>2878</td>
</tr>
<tr>
<td>SCIENCE EDUCATION OF SCHOOLCHILDREN</td>
<td></td>
</tr>
<tr>
<td>A. Sobolev, T. Corbunova, N. Soboleva, V. Lutsik, N. Rakistova</td>
<td></td>
</tr>
<tr>
<td>GUIDED LANGUAGE LEARNING AND THE MYTH OF ‘NATIVE SPEAKER’</td>
<td>2886</td>
</tr>
<tr>
<td>A. Guelbeyaz</td>
<td></td>
</tr>
<tr>
<td>EXPERIENCES OF THE SIGNIFICANT OTHER, CHOSEN BY THE WOMEN TO</td>
<td>2895</td>
</tr>
<tr>
<td>ACCOMPANY HER DURING LABOR AND CHILDBIRTH</td>
<td></td>
</tr>
<tr>
<td>E. Coutinho, S. Pinheiro, V. Parreira, C. Chaves, P. Nelos, J. Duarte, O. Amaral</td>
<td></td>
</tr>
<tr>
<td>FACTORS CONTRIBUTING TO SUCCESS IN E-LEARNING</td>
<td>2902</td>
</tr>
<tr>
<td>E. Bustos-Contell, G. Labatut-Serer, T. Mariño-Carrido</td>
<td></td>
</tr>
<tr>
<td>MOOCs, ARE THEY A REAL ALTERNATIVE TO CLASSROOM TEACHING?</td>
<td>2909</td>
</tr>
<tr>
<td>T. Boronat, D. García-Saneguera, L. Sánchez-Nacher, O. Fenollar, R. Balart</td>
<td></td>
</tr>
<tr>
<td>BRIDGING THE LANGUAGE LEARNING GAP: DEVELOPING INCLUSIVE LEARNING</td>
<td>2913</td>
</tr>
<tr>
<td>ENVIRONMENTS WITH DIGITAL TECHNOLOGY</td>
<td></td>
</tr>
<tr>
<td>C. Jalleh, T.S. Tengku Mahadi</td>
<td></td>
</tr>
<tr>
<td>PROFESSIONAL TOOLS FOR PREPARATION FOR THE PROFESSION: THE TIMETABLE</td>
<td>2921</td>
</tr>
<tr>
<td>G. Martínez, O. Ferrier Caputi</td>
<td></td>
</tr>
<tr>
<td>EDUCOMUNICATIVE PEDAGOGICAL PRACTICE AND THE USE OF MEDIA IN BASIC</td>
<td>2928</td>
</tr>
<tr>
<td>SCHOOL. INTERNATIONAL RESEARCH DEVELOPED IN COOPERATION BRAZIL -</td>
<td></td>
</tr>
<tr>
<td>COLOMBIA. CASE BARRANQUILLA AND FLORIANÓPOLIS</td>
<td></td>
</tr>
<tr>
<td>A. Silveira Sartori, E. Said-Hung, P. Justo Moreira, J. Bovéa Madariaga</td>
<td></td>
</tr>
<tr>
<td>PIONEERING PARTNERSHIPS FOR DIGITAL LITERACY DEVELOPMENT: BENEFITS,</td>
<td>2934</td>
</tr>
<tr>
<td>CHALLENGES AND THE WAY FORWARD</td>
<td></td>
</tr>
<tr>
<td>G. Benfield, M. Pavlakou</td>
<td></td>
</tr>
<tr>
<td>THE COMMUNICATION PROCESSES AND ICT IN EDUCATIONAL ORGANIZATIONS</td>
<td>2944</td>
</tr>
<tr>
<td>AND ITS INFLUENCE ON TEACHING INNOVATION PROJECTS</td>
<td></td>
</tr>
<tr>
<td>E. Hernández Gómez, I.J. Martínez Martínez, A.J. Briones Péñalver, F. Medina Vidal</td>
<td></td>
</tr>
<tr>
<td>DESIGNING STUDENT INFORMATION SYSTEMS THAT WORK FOR STUDENTS - A</td>
<td>2950</td>
</tr>
<tr>
<td>CASE STUDY IN USABILITY</td>
<td></td>
</tr>
<tr>
<td>K. Wijekumar, M. Ladakos, N. Bruce, J. Benscoter, A. Boguszewski, S. Conklin, D. Gilliam</td>
<td></td>
</tr>
<tr>
<td>MAKING INROADS FOR ICT IN JAPAN: FINDING PLATFORMS FOR CHANGE IN A</td>
<td>2951</td>
</tr>
<tr>
<td>TRADITION-BOUND CULTURE</td>
<td></td>
</tr>
</tbody>
</table>
M. Morrone
THE LIBRARY OF THE FUTURE - LISEUM

K. Wijekumar
USING MOODLE VIRTUAL PLATFORM IN TEACHER TRAINING FOR SECONDARY SCHOOL TEACHERS THAT HAVE LITTLE KNOWLEDGE OF ICT THROUGH A WORKING GROUP OFFERED BY THE EDUCATIONAL ADMINISTRATION
F. Medina Vidal, I.J. Martínez Martínez, A.J. Briones Peñalver, E. Hernández Gómez

APPLICATION OF SOCIAL NETWORKS IN HIGHER EDUCATION
Á. Ramírez-Gómez, E. Ayuga, J.M. Fuentes-Pardo, F. Ayuga

EXPERIMENTAL DESIGN OF A RANDOMIZED CLINICAL TRIAL: A PILOT PROJECT FOR THE PRACTICAL INTRODUCTION OF THE SCIENTIFIC METHOD IN THE MEDICINE DEGREE
O. Coltell, R. Tosca, X. Granell, L.V. Lizar, P. Latorre, J.S. Sanchez

APPROACHES TO LEARNING AND STUDYING IN MATHEMATICAL ANALYSIS CLASSES
A. Berkova

A LONGITUDINAL STUDY OF THE ACHIEVEMENT OF BUSINESS COMMUNICATION LEARNING OUTCOMES AT A MIDDLE EASTERN UNIVERSITY
V.P. Goby, C. Nickerson

LEARNING TO COLLABORATE AND COLLABORATING TO LEARN USING MOODLE PLATFORM IN A TEACHER TRAINING PROGRAM
E. Figueira, V. Maio

DEFINING A CHILD'S CONCEPTUALIZATION OF A VIRTUAL LEARNING COMPANION
N. Roa-Seiter, P. Craig, J.A. Arias, A. Benítez Saucedo, M. Martínez Díaz, F. Lara Rosano

GREATER EXPECTATIONS: IMPROVING STUDENT CONFIDENCE IN ONLINE ART HISTORY SURVEYS
H. McCune Bruhn

WOMEN BETWEEN THE ARABIAN PENINSULA AND THE BRITISH ISLAND TOP UNIVERSITIES: OBSERVATION OF WOMEN'S EXPERIENCE IN THE LAST CENTURY
W.M. Abutaleb

EFFICIENT STUDENT EVALUATION SYSTEM VIA A COMPUTERIZED BOARD GAME SYSTEM

LEARNING TO WRITE DESCRIPTIVE ESSAYS IN AN ESL WRITING CLASS WITH THE AID OF ONLINE I-LEARN WEB-BASED RESOURCES
N. Ismail, S. Elias@Alias, I. Muthusamy, P.D. Perumal

MUSING - ENHANCING EDUCATIONAL EXPERIENCE THROUGH AN AUGMENTED REALITY/VIRTUAL MUSEUM APPLICATION
G. Atkinson, K. Whiteside, G. Lawrence, M. Stump, D. Tamir

LESSONS FROM THE FALL: CONSUMER PROTECTION AND THE FOR-PROFIT HIGHER EDUCATION INDUSTRY: AN ANALYSIS OF THE PROPOSED "PROTECTING STUDENTS FROM WORTHLESS DEGREES ACT" AND ITS ECONOMIC IMPACT
B. Good, J. Lisy IV

ESL STUDENTS’ BLENDED LEARNING EXPERIENCE: A CASE STUDY IN AN INTERMEDIATE ESL WRITING CLASS AT MARA UNIVERSITY OF TECHNOLOGY
N. Ismail, I.S. Mohd Ariff Allabaki, W.Z. Wan Mustapha

FROM CHALLENGES TO CREATIVITY: A FINAL YEAR PROJECT CASE STUDY
J. Badejo, G. Kagho, Y. Odu

UPGRADING ENTREPRENEURSHIP EDUCATION AND DEVELOPMENT IN ARAB AND MENA COUNTRIES
M-S. Oukil

A “FLIPPED CLASSROOM” FOR MOBILE ROBOTICS TEACHING
J. Berrío Perez

GLOBAL UNIVERSITY ENVIRONMENT – WHICH MARKETING STRATEGIES?
P. Lopes, M. Varela

SILESIAN NETWORKING EFFECT: REFLECTIONS ON THE UNIVERSITY – BUSINESS COOPERATION
N. Baba-Ciosek

ROBOTICS IN THE DEVELOPMENT OF THE LOGICAL THINKING AMONG FIRST
SEMESTER STUDENTS IN FACULTY OF ENGINEERING (FI) AT UNIVERSITY OF MEXICO
M. Jurado Pineda, A. Arenas González, Y. Minami Koyama, C. Loreto Miranda

THE CHANGING TECHNOLOGICAL CONTEXT OF ALTERNATIVE HIGHER EDUCATION IN SUB-SAHARAN AFRICA
G. Adekanmbi

METHODS AND TOOLS FOR THE DEVELOPMENT, IMPLEMENTATION AND USE OF THE INTELLIGENT DISTANCE LEARNING ENVIRONMENT
A. Afanasjev, N. Voit, E. Voevodin, T. Egorova, O. Novikova

SOCIAL COMPETENCE: STUDENTS’ PERCEPTIONS ELEMENTARY AND SECONDARY SCHOOL
A. Candeias

THE STUDY OF THE ARABIC LANGUAGE IN DIGITAL LEARNING ENVIRONMENT - EDUCATIONAL AND DIDACTIC ASPECTS
B. Makhoul

EDUCATION AS SERVICE SYSTEM
L. Walletzký

UNIVERSITY AND INDUSTRY COLLABORATION FOR THE TOOL AND DIE MAKING INDUSTRY
G. Schuh, M. Pitsch, N. Komorek, T. Hensen

CONNECTIONS FOR LEARNING: AN INNOVATIVE PROGRAM TO SUPPORT CULTURALLY AND LINGUISTICALLY DIVERSE STUDENTS
R. Nash, R. Frohman, P. Lemcke

BAYESIAN APPROACH TO MALIGNANT MELANOMA IMAGE PROCESSING
S.K. Krishna, S. Das De

EXPLORE HOW TEACHERS CAN UTILISE THE COMBINATION OF PHYSICAL AND ONLINE LEARNING SPACES AND THE INTERSECTION BETWEEN THEM TO ENHANCE LEARNING EXPERIENCES
M. Fahlvik

MOBILE APP FOR ARTIFICIAL NEURAL NETWORKS TEACHING
J. Berrío Pérez

LEARNING OPTIMIZATION IN HEALTH SCIENCES EDUCATION USING ALERT® STUDENT PLATFORM
T. Taveira Gomes, R. Prado Costa, M. Severo, M.A. Ferreira

HIGHER SCHOOL – INDUSTRY COOPERATION AS A CRADLE FOR PROFESSIONAL COMPETENCIES DEVELOPMENT
O. Burukina, A.N. Yandovsky

DEVELOPING AN ONLINE LEARNING ENVIRONMENT TO SUPPORT PREVIOUSLY DISADVANTAGED SCHOOLS IN SOUTH AFRICA
H. Thinyane, I. Sieborger, R. Wilsenach

APPEAL TO ENHANCE THE USAGE AND STATUS OF THE PREVIOUSLY MARGINALIZED LANGUAGES OF SOUTH AFRICA FROM GRADE R TO TERTIARY EDUCATION
M.A. Mabasa

ENCOURAGING THE USE AND IMPROVING SEARCH TECHNIQUES SKILLS ON THE E- SCHOLARLY DATABASES SUBSCRIBED BY UNIVERSITY OF BAHRAIN LIBRARY
A. Abdulrazzaq

EQUAL ACCESS TO EDUCATION FOR INCLUSIVE SOCIETY
R. Majumdar

IMPLEMENTATION OF QUALITY MANAGEMENT SYSTEMS IN HEI: THE APPROACH OF THE POLYTECHNIC INSTITUTE OF SETÚBAL (PORTUGAL)
A. Ramos Pires, M. Saratová, H. Gonçalves

ACADEMIC INTERNSHIP PROGRAMMES IN HIGHER EDUCATION: AN EXAMPLE OF AN INTEGRATED MODEL
L. Finkel

TEACHING AS A CAREER CHOICE: PERCEPTIONS OF TECHNICAL AND VOCATIONAL (TVE) STUDENT TEACHERS
A.R. Bakar, N. Ismail, S. Mohamed, R. Hamzah, A. Suhid

THE INTEGRATION OF ICT IN TEACHING VOCATIONAL AND TECHNICAL SUBJECTS: ARE MALAYSIAN VOCATIONAL TEACHERS READY?
A. Alazam, A.R. Bakar, S. Mohamed, R. Hamzah
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELF-ASSESSMENT TESTS AS A METHOD OF STUDY</td>
<td>3244</td>
</tr>
<tr>
<td>M.C. Tolosa Bailén, J.R. García Bernabeu</td>
<td></td>
</tr>
<tr>
<td>TEACHING HORTICULTURAL PLANT BREEDING FOLLOWING A SEMI-VIRTUAL FORMAT – EXPERIENCE USING MOODLE</td>
<td>3249</td>
</tr>
<tr>
<td>S. García-Martínez, J.J. Ruiz</td>
<td></td>
</tr>
<tr>
<td>COMPARISON ABOUT DIFFERENT TECHNIQUES OF STUDENT GROUP FORMATION IN SEVERAL SUBJECTS OF THE DEGREE OF ENGINEERING IN INDUSTRIAL DESIGN</td>
<td>3252</td>
</tr>
<tr>
<td>M. Rojo, E. Mulet</td>
<td></td>
</tr>
<tr>
<td>AN INVESTIGATION INTO THE TEACHING OF THRESHOLD CONCEPTS IN AN INTRODUCTORY PROGRAMMING COURSE</td>
<td>3253</td>
</tr>
<tr>
<td>H. Thiniane</td>
<td></td>
</tr>
<tr>
<td>HOW TO APPLY LEARNING STRATEGIES ON FACEBOOK?</td>
<td>3262</td>
</tr>
<tr>
<td>C. Atmaca</td>
<td></td>
</tr>
<tr>
<td>CURRICULA OF TEACHER FOR PRESCHOOL AND PRIMARY SCHOOL. COMPARATIVE STUDY - ROMANIA, ITALY AND SPAIN</td>
<td>3278</td>
</tr>
<tr>
<td>E.L. Mara</td>
<td></td>
</tr>
<tr>
<td>INNOVATION IN TEACHING APPLIED MATHEMATICS AT THE UNIVERSITY OF GRANADA</td>
<td>3284</td>
</tr>
<tr>
<td>P. González Rodelas, M.A. Fortes Escalona, M. Pasadas Fernández, M.L. Rodríguez González, M.L. Márquez García</td>
<td></td>
</tr>
<tr>
<td>LEARNING THROUGH PLAYING: DEVELOPMENT OF SOFTWARE ARCHITECT’S SKILLS WITH BUILDING BLOCKS</td>
<td>3294</td>
</tr>
<tr>
<td>S. Ahmad, E. Kasmuri, N.A. Muda</td>
<td></td>
</tr>
<tr>
<td>HARRY POTTER IN THE HOSPITAL WING - USING HARRY POTTER MOVIES FOR PRACTICING MEDICAL ENGLISH</td>
<td>3304</td>
</tr>
<tr>
<td>S. Connor</td>
<td></td>
</tr>
<tr>
<td>APPLIED LANGUAGE LEARNING FOR DIGITAL NATIVES</td>
<td>3312</td>
</tr>
<tr>
<td>L. Fitzpatrick</td>
<td></td>
</tr>
<tr>
<td>CONNECTING WITH STUDENTS USING A LECTURE COMPREHENSION INDICATION SYSTEM</td>
<td>3319</td>
</tr>
<tr>
<td>M. Halse, D. Kenyon</td>
<td></td>
</tr>
<tr>
<td>CHEATING IN FACULTIES OF BUSINESS AND ECONOMICS: A SURVEY OF SECOND-YEAR STUDENTS AT UNIVERSITY OF ZARAGOZA</td>
<td>3329</td>
</tr>
<tr>
<td>M. Fernández Olmos, E. Giner, C. Garcés, J.M. Baéz, L.M. Marín, J. Díez</td>
<td></td>
</tr>
<tr>
<td>EFFECT OF COGNITIVE AND METACOGNITIVE STRATEGIES TRAINING ON SELF EFFICACY</td>
<td>3336</td>
</tr>
<tr>
<td>N. Saeid</td>
<td></td>
</tr>
<tr>
<td>THE ALTERNATION FREEDOM – FIDELITY IN TRANSLATION, A NECESSITY IN THE COMMUNICATION BETWEEN TWO DIFFERENT IDENTITIES</td>
<td>3341</td>
</tr>
<tr>
<td>H. Heba, E. Canaj</td>
<td></td>
</tr>
<tr>
<td>MULTIMEDIA IN PRESCHOOL: AN ADDITIONAL OPPORTUNITY TOWARDS EQUAL OPPORTUNITIES IN EDUCATION</td>
<td>3347</td>
</tr>
<tr>
<td>G. Decin, C. Mazarese, N. Vanuytven, E. Buyse</td>
<td></td>
</tr>
<tr>
<td>ENHANCING LEARNING AND WRITING OF LABORATORY REPORTS IN MATERIALS SCIENCE FOR FIRST YEAR UNDERGRADUATE LEARNERS</td>
<td>3357</td>
</tr>
<tr>
<td>H. Lombard, P. McGrath</td>
<td></td>
</tr>
<tr>
<td>CONSEQUENCES OF THE HIGHER EDUCATION QUALIFICATIONS SUB-FRAMEWORK (HEQSF) ON WORKPLACE-BASED LEARNING (WPL) IN THE SOUTH AFRICAN CONTEXT</td>
<td>3367</td>
</tr>
<tr>
<td>P. McGrath, H. Lombard</td>
<td></td>
</tr>
<tr>
<td>THE ISLAMIC SPIRITUAL ELEMENT OF AL-TAFAKKUR IN CRITICAL THINKING AMONG MUSLIM ENGINEERING UNDERGRADUATES IN MALAYSIA</td>
<td>3374</td>
</tr>
<tr>
<td>M.N.A. Endut, W.S. Wan Abdullah, Z. Ismail</td>
<td></td>
</tr>
<tr>
<td>METHODS OF OBSERVATION IN CLASSROOM RESEARCH</td>
<td>3384</td>
</tr>
<tr>
<td>C. Fidan</td>
<td></td>
</tr>
<tr>
<td>DISTANCE EDUCATION: AN EXPERIENCE OF TURKEY</td>
<td>3389</td>
</tr>
<tr>
<td>I. Fidan</td>
<td></td>
</tr>
<tr>
<td>PROMOTING PAPERLESS APPROACHES TO QUALITY ASSURANCE AND ENHANCEMENT PROCEDURES: A UNIVERSITY DEPARTMENTAL CASE STUDY</td>
<td>3392</td>
</tr>
<tr>
<td>D. Cobham, B. Hargrave, K. Jacques, J. Leteak</td>
<td></td>
</tr>
<tr>
<td>USING NETVIBES AS A PLE FOR LANGUAGE LEARNING</td>
<td>3403</td>
</tr>
</tbody>
</table>
P. Panagiotidis

HOW PROVERBS AND PHRASEOLOGICAL EXPRESSIONS ARE MEANINGFULLY TRANSMITTED FROM ONE CULTURAL IDENTITY INTO ANOTHER
H. Heba

WHAT IS ELECTRONIC MENTORING? HOW CAN IT BE USED?
R. Gentry

ELECTRONIC MENTORING FOR NOVICE TEACHERS
R. Gentry

A HYBRID TEACHING MODEL FOR MEDICAL EDUCATION: REFLECTIVE E-PORTFOLIOS, FACE TO FACE CONTACT AND STUDENT CENTERED INTERACTIVE GROUP LEARNING
E. Prinsloo, J. Hashim, S. Major, M. McLean

VARIOUS CONCEPTUALIZATIONS OF THE PREDICTION OF STUDENT APPROACHES TO LEARNING BY PERSONALITY, MOTIVATION AND COURSE EXPERIENCE: A TEST OF COMPETING MODELS VIA STRUCTURAL EQUATION MODELLING

FUTURE PROSPECTS FOR PHYSIOLOGISTS IN AN INTEGRATED PBL CURRICULUM
N. Shantakumari

HOW THE IMPLEMENTATION OF TABLET COMPUTERS IMPACTS LEARNING AND PEDAGOGY AND PROMOTES “DIGITAL WISDOM” OF STUDENTS AND TEACHERS IN THE ELEMENTARY SCHOOL?
T. Shamir-Inbal, I. Blau

ENTREPRENEURSHIP, PROTAGONISM AND PEDAGOGY OF PROJECTS: A TRANSDISCIPLINARY SYMBIOSIS
A. Pires, D. Guimarães

SYNERGY AMONG ENTREPRENEURIAL EDUCATION, PROJETS METHODOLOGY AND METACOGNITION
A. Pires, C. Gomes

DESIGN AND DEVELOPMENT OF A MULTIMEDIA COURSE FOR A BACHELOR OF INFORMATION TECHNOLOGY DEGREE
X. Liu

INOCULATING ALTRUISM AND VOLUNTEERISM MIND SET AMONG MEDICAL STUDENTS THROUGH INTERNATIONAL ELECTIVES
O. Ali, K. Russ, H. Gharib, M. Hadrami

CINEMA AND ENVIRONMENTAL EDUCATION, WORKSHOP FOR PRIMARY SCHOOL
G. Calvano

HOUSING EDUCATION CHALLENGES IN RECONSTRUCTION AND DEVELOPMENT PROGRAMME (RDP) HOUSES IN SOUTH AFRICA: THE CASE OF GOLF COURSE RDP HOUSES IN ALICE TOWN, EASTERN CAPE PROVINCE
T. Manomano

PARENTAL CHALLENGES THAT PROHIBIT THE PERFORMANCE OF ORPHAN AND VULNERABLE CHILDREN (OVCS) IN EDUCATION IN SOUTH AFRICA: THE CASE OF HIV/AIDS ORPHANS AND VULNERABLE CHILDREN IN THE AMATHOLE DISTRICT, EASTERN CAPE PROVINCE
T. Manomano, M.M. Ndonga

FDTD-BASED ELECTROMAGNETIC SIMULATOR: A VIRTUAL LABORATORY FOR LEARNING
A. Grande, J. Pereda, A. Cabeceria, I. Barba, J. Represa

CONCEPTS ON ENVIRONMENT IN FACE OF THE POLITICAL, ECONOMIC AND ECOLOGICAL ASPECTS

A MOBILE APPLICATION FOR THE STUDENT MODULE OF REPROTOOL
P. Pouyioutas, H. Gjermundrod, A. Kyriacos, I. Dionysiou

CREATING AN UNBROKEN LINE BETWEEN THE STUDENT CLASSROOM EXPERIENCE AND THE EMERGING TECHNOLOGY WORKPLACE: AN INNOVATIVE MODEL FOR TECHNICAL COLLEGE AND INDUSTRY COLLABORATION
B. Eldridge, D. Smith

TAKING FLIGHT: MEETING THE ANTICIPATED WORKFORCE DEMANDS FOR DRONE AND UAV PROFESSIONALS WITH TECHNICAL EDUCATION
B. Eldridge

IDENTIFYING KEY FACTORS AFFECTING PROGRAM DESIGN AND DEVELOPMENT
<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRACTICES IN UNDERGRADUATE EDUCATION</td>
<td>F. Giménez Prado, E. Santamaria Peréz, C. Sigalés Conde</td>
</tr>
<tr>
<td>FEMALE ENGINEERING STUDENTS’ PERCEPTION ON ENGINEERING PROGRAMME AND PROFESSION: A CASE STUDY IN MALAYSIA AND JAPAN</td>
<td>B. Balakrishnan, F.S. Low</td>
</tr>
<tr>
<td>EFFECTS OF SOCIAL MEDIA ON BUILDING AND USING PERSONAL LEARNING NETWORKS</td>
<td>S.A. Horgen, T.O. Olsen</td>
</tr>
<tr>
<td>MOOCs FOR FOREIGN LANGUAGE LEARNING: AN EFFORT TO EXPLORE AND EVALUATE THE FIRST PRACTICES</td>
<td>M. Perifanou, A. Economides</td>
</tr>
<tr>
<td>CORRELATION BETWEEN CONTINUOUS ASSESSMENT AND EXAMINATION SCORES: A CASE FOR ENHANCING THE PREDICTORS OF STUDENTS’ PERFORMANCE IN COLLEGES OF EDUCATION</td>
<td>B. Egede, O. Omiegbne</td>
</tr>
<tr>
<td>HIGHER EDUCATION IN A MULTICULTURAL SOCIETY: INNOVATION AND THE PAST IN THE TEACHING-LEARNING PROCESS OF ISLAMIC PHILOSOPHY AND THINKING</td>
<td>E. Ruiz Callejón</td>
</tr>
<tr>
<td>GAMIFICATION TO TRAIN YOUNG DIABETIC TO MANAGE THE INSULIN METABOLISM</td>
<td>P. Di Bitonto, V. Rossano, T. Roselli, E. Piccinno, F. Ortolani, E. Frezza, A. Tummino</td>
</tr>
<tr>
<td>REMOTE SENSING TECHNOLOGY ONLINE EDUCATION IN AFRICA: A MULTICULTURAL EXPERIENCE</td>
<td>H. Ferreira, P. Mustarao</td>
</tr>
<tr>
<td>EXPLORING ACADEMICS’ PERCEPTIONS OF THE NEW HIGHER EDUCATION EVALUATION POLICY IN TAIWAN</td>
<td>P. Li</td>
</tr>
<tr>
<td>COLLABORATIVE LEARNING THROUGH DYADIC INTERACTION FOR CLASSROOM VIDEO PRODUCTION PROJECTS</td>
<td>J. Livingston, K. Julian</td>
</tr>
<tr>
<td>AN ANALYSIS OF THE NEW ACADEMIC SYSTEM IN UCD</td>
<td>A.M. Fernández Castro, Y. Eiadat, A. Kelly</td>
</tr>
<tr>
<td>CONCEPT ARCHITECTURE: UNDERSTANDING AND USING CONCEPT MAPS IN EDUCATION AND ARCHIVAL WORK</td>
<td>B. Holden</td>
</tr>
<tr>
<td>MEMORIX OF ANATOMY. A MODERN, DIDACTIC BOOK CREATED BY MEDICAL STUDENTS AND RESIDENTS FOR MEDICAL STUDENTS. TRENDS IN THE TEACHING OF ANATOMY IN 21ST CENTURY</td>
<td>O. Volny, R. Hudak, D. Kachlik, M. Dvorakova</td>
</tr>
<tr>
<td>THE IMPORTANCE OF ENVIRONMENTAL ETHICS EDUCATION AT UNIVERSITIES</td>
<td>A. Karataş</td>
</tr>
<tr>
<td>GOAL 2 OF MILLENNIUM DEVELOPMENT GOALS AND THE RIGHT TO EDUCATION IN INDIA</td>
<td>J. Pathenkalam</td>
</tr>
<tr>
<td>MUSEUMS’ VISITORS AND ICT: ANALYSIS ON SOCIOCULTURAL VARIABLES AND LEVEL OF DIGITAL ALPHABETISATION OF VISITORS</td>
<td>F. Braña Rey, D. Casado-Neira</td>
</tr>
<tr>
<td>DIGITAL ME - INTERNATIONAL STUDENT AND STAFF PERCEPTIONS OF AND CHALLENGES TO THE NOTION OF DIGITAL LITERACY, PART OF THE ‘IN-STEP’ PROJECT - INTERNATIONAL STUDENT AND EDUCATION PARTNERSHIPS</td>
<td>M. Lawton</td>
</tr>
<tr>
<td>STUDENTS AS JUNIOR CONSULTANTS OF REAL FIRMS: ANALYSING THE PROCESS OF STRATEGIC MANAGEMENT</td>
<td>M. Boronat, B. Forés, A. Puig</td>
</tr>
<tr>
<td>ANALYSING GRADUATES’ MARKET HETEROGENEITY IN HIGHER EDUCATION: AN EMPIRICAL APPROACH BASED ON A RELATIONAL MODEL</td>
<td>M.A. Iniesta-Bonillo, D. Jimenez-Castillo, R. Sanchez-Fernandez, A. Cervera-Taulet, W. Schlesinger</td>
</tr>
<tr>
<td>NURTURING AND ASSESSING GENERIC ABILITIES TO AUGMENT DISCIPLINE SPECIFIC KNOWLEDGE AND ABILITIES</td>
<td>P. Sharma</td>
</tr>
<tr>
<td>APPLICATION OF INFORMATION AND COMPUTER TECHNOLOGIES IN</td>
<td></td>
</tr>
</tbody>
</table>
COUNSELLING SERVICE DELIVERY IN NIGERIAN UNIVERSITIES
G. Adejumo, A. Gesinde, A. Alao

ICT TOOLS FOR THE STUDY OF ALTERNATING CURRENT ELECTRIC MACHINES
M. San Martín, E. Parra, M.I. Jiménez Gómez, M. Blanco Caballero, A. Sánchez Lité, J.A. Serrano, M. García

OPEN BADGES FOR HEALTH PROMOTION AND HOLISTIC WELLNESS
L. Eldridge

AN EDUCATION PROGRAM TO INCREASE KNOWLEDGE OF SUSTAINABLE TRANSPORTATION
L.M. Putz, O. Schauer

RELATIONSHIPS BETWEEN L2 MOTIVATION AND INTERCULTURAL CONTACT FOR UNDERGRADUATE SAUDI STUDENTS IN THE UK
A. Alqahtani

A NEW STRATEGY FOR MEDICAL STUDENT TRAINING OF PATIENT PHYSICIAN COMMUNICATION SKILL
S.L. Tsai, C.W. Yang

"FIT" MODEL AS A KEY TOOL OF STAKEHOLDER EDUCATION IN THE CONTEXT OF EDUCATION FOR SUSTAINABLE DEVELOPMENT IN PROTECTED AREAS IN SLOVAKIA
J. Tomáškínová, J. Tomáškin, M. Rákaiová

ARCH-APP: THE CITY AS CLASSROOM BUILDER
C. Dowling, M. Whalen

USABILITY – SOFTWARE COMPANIES STILL NEED TO LEARN HOW TO SATISFY THEIR USERS
B. Salzbrunn, D. Dolezal, V. Winter, R. Pucher

LEARNING TO LEARN: ASSESSMENT OF METACOGNITIVE COMPETENCIES
S. Frenkel, D. Nobile

BEYOND THE CLASSROOM WALLS: REINVENTING YOURSELF, YOUR CLASS, AND YOUR TEACHING METHODS
L. Burruss

SKETCHING: A WAY TO INTRODUCE PHYSICAL COMPUTING TO ACADEMICS IN INFORMATION TECHNOLOGY
A. Alabdulkarim, H. AlMazrua

CULTURAL ADAPTATION AND VALIDITY OF THE OF ETHICS POSITION QUESTIONNAIRE (EPQ) TO A SPANISH UNIVERSITY POPULATION

PROPOSAL OF A NEW IBEROAMERICAN NETWORK FOCUSED ON ETHICAL DIMENSION OF UNIVERSITY EDUCATION

PATIENT EMPOWERMENT IN HEMODIALYSIS AND PHYSICAL BARRIERS THROUGH COGNITIVE IMPAIRMENT
V. Henriques, A. Anes, D. Sardo

APPLICATION OF TEACHING TECHNIQUES IN THE MSC PROGRAMME IN CLIMATE CHANGE AND RESTORATION OF DEGRADED LAND

IMPROVEMENT OF KEY COMPETENCES IN THE CONTEXT OF EDUCATION FOR SUSTAINABLE LIFE THROUGH THE "FIT MODEL"
J. Tomáškínová, M. Rakaiová

LEARNING AND INNOVATION: A STUDY ON THE PERCEPTION OF THE STUDENT IN A CLINICAL LEARNING ENVIRONMENT
V. Henriques, A. Anes, D. Sardo

DEVELOPMENT OF AN E-LEARNING GRADUATE PROGRAMME IN MANAGEMENT OF SUSTAINABLE AND ECOLOGICAL TOURISM IN THE FRAME OF THE ERASMUS MULTILATERAL PROJECTS

SPARK INSPIRED SCIENCE CLASSROOM
M.P. Morales

GRAPHOGAME – TECHNOLOGY SUPPORTING CHILDREN’S ACQUISITION OF
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC READING SKILL ACROSS THE WORLD</td>
<td>3811</td>
</tr>
<tr>
<td>H. Lyytinen, U. Richardson</td>
<td></td>
</tr>
<tr>
<td>BRIDGING COLLABORATION IN DESIGN EDUCATION: A PROCESS TO PROMOTE</td>
<td>3814</td>
</tr>
<tr>
<td>STUDENT ENGAGEMENT AND CREATIVITY</td>
<td></td>
</tr>
<tr>
<td>K. Julian, J. Livingston, I. Mosley</td>
<td></td>
</tr>
<tr>
<td>MULTIDISCIPLINARY LEARNING WITH ELECTRICAL CONCEPTS IN THE BUILT</td>
<td>3817</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td></td>
</tr>
<tr>
<td>K. Julian, I. Mosley, J. Livingston</td>
<td></td>
</tr>
<tr>
<td>EDUCATE TO ENVIRONMENT AND SUSTAINABILITY: THE ITALIAN PEDAGOGY</td>
<td>3822</td>
</tr>
<tr>
<td>CONTRIBUTION</td>
<td></td>
</tr>
<tr>
<td>G. Calvano</td>
<td></td>
</tr>
<tr>
<td>SUSTAINING INTERIOR DESIGN EDUCATION; COMPARISONS OF OPEN POSITIONS</td>
<td>3826</td>
</tr>
<tr>
<td>TO AVAILABLE NUMBER OF QUALIFIED CANDIDATES</td>
<td></td>
</tr>
<tr>
<td>J. Landa</td>
<td></td>
</tr>
<tr>
<td>EXE-LEARNING FOR THE CREATION OF DIGITAL TEACHING CONTENT FOR THE</td>
<td>3834</td>
</tr>
<tr>
<td>ENGLISH CLASSROOM OF PCPI GROUPS</td>
<td></td>
</tr>
<tr>
<td>M.B. Cabaleiro González, E. Hernández Gómez</td>
<td></td>
</tr>
<tr>
<td>DELIVERING ETHICAL VALUES TO E-BUSINESS STUDENTS THROUGH RELIGIOUS</td>
<td>3842</td>
</tr>
<tr>
<td>TEACHINGS</td>
<td></td>
</tr>
<tr>
<td>A. Mirza</td>
<td></td>
</tr>
<tr>
<td>INTEGRATED STUDENT MANAGEMENT AND LEARNING SYSTEMS. ONE SCHOOL’S</td>
<td>3852</td>
</tr>
<tr>
<td>JOURNEY IN BRINGING PARENTS, STUDENTS AND TEACHERS TOGETHER</td>
<td></td>
</tr>
<tr>
<td>K. Vallis</td>
<td></td>
</tr>
<tr>
<td>RESEARCH UNIVERSITY AS A TOPICAL ISSUE OF KAZAKHSTANI EDUCATION</td>
<td>3856</td>
</tr>
<tr>
<td>A. Zhussupova, G. Zhussupova</td>
<td></td>
</tr>
<tr>
<td>INTERNATIONAL SITUATION IN THE SECOND SEMESTER OF 2013: LEADERSHIPS</td>
<td>3862</td>
</tr>
<tr>
<td>THAT REPRESENT A SOURCE OF INSPIRATION FOR A BETTER 21ST CENTURY</td>
<td></td>
</tr>
<tr>
<td>J.G. de la Vega Meneses, M.J. Rivero Villar, X. Delfin Besares, N.D.</td>
<td></td>
</tr>
<tr>
<td>Osorio Clemente</td>
<td></td>
</tr>
<tr>
<td>UNDERSTANDING THE FINANCIAL REPORTING OF AGRICULTURE ACTIVITIES: AN</td>
<td>3869</td>
</tr>
<tr>
<td>IMPORTANT SECTOR INDUSTRY IN ORDER TO PROMOTE THE SUSTAINABLE</td>
<td></td>
</tr>
<tr>
<td>DEVELOPMENT</td>
<td></td>
</tr>
<tr>
<td>J.G. de la Vega Meneses, M.J. Rivero Villar, X. Delfin Besares, N.D.</td>
<td></td>
</tr>
<tr>
<td>Osorio Clemente</td>
<td></td>
</tr>
<tr>
<td>EXPERIENCE OF UNIVERSITY COUNSELING CENTER AT THE UNIVERSITY OF</td>
<td>3880</td>
</tr>
<tr>
<td>DAMMAM: REALITY AND FUTURE OPPORTUNITIES</td>
<td></td>
</tr>
<tr>
<td>A. Almutawa</td>
<td></td>
</tr>
<tr>
<td>THE ENGAGED CLASSROOM: A SUCCESSFUL LEAD USER INNOVATION</td>
<td>3893</td>
</tr>
<tr>
<td>A. Pereira, S. Dhar</td>
<td></td>
</tr>
<tr>
<td>CHARACTERISTICS OF PROGRAMMING EDUCATION IN ELEMENTARY, JUNIOR</td>
<td>3900</td>
</tr>
<tr>
<td>HIGH AND HIGH SCHOOLS IN JAPAN</td>
<td></td>
</tr>
<tr>
<td>Y. Ohashi</td>
<td></td>
</tr>
<tr>
<td>USE OF KNOWLEDGE DISCOVERY IN SCHOOL DATABASES TO ENRICH THE</td>
<td>3904</td>
</tr>
<tr>
<td>LEARNING PROCESS</td>
<td></td>
</tr>
<tr>
<td>I. Bhaduri, S. Bhaduri</td>
<td></td>
</tr>
<tr>
<td>CONCEPTION OF AN E-LEARNING PLATFORM FOR TRANSPORT EDUCATION</td>
<td>3905</td>
</tr>
<tr>
<td>O. Schauer, L.M. Putz</td>
<td></td>
</tr>
<tr>
<td>PRE-SERVICE TEACHER LEADERSHIP DEVELOPMENT FOR EDUCATIONAL REFORM</td>
<td>3915</td>
</tr>
<tr>
<td>IN THE UAE</td>
<td></td>
</tr>
<tr>
<td>L. Stephenson, B. Harold</td>
<td></td>
</tr>
<tr>
<td>THE INFLUENCE OF CONTEXTUAL FACTORS IN EXPLAINING ENTREPRENEURIAL</td>
<td>3922</td>
</tr>
<tr>
<td>INTENTION: A COMPARATIVE STUDY AMONG UNIVERSITY STUDENTS FROM</td>
<td></td>
</tr>
<tr>
<td>SPAIN AND MEXICO</td>
<td></td>
</tr>
<tr>
<td>M. Palma-Rúíz, A.M. Serrano-Badia, M.C. López-Fernández</td>
<td></td>
</tr>
<tr>
<td>USE OF COLLABORATIVE WEB BASED MIND MAPPING TOOLS BY TRAINEE</td>
<td>3928</td>
</tr>
<tr>
<td>TEACHERS IN MAURITIUS</td>
<td></td>
</tr>
<tr>
<td>K. Goodoory</td>
<td></td>
</tr>
<tr>
<td>USING ROLE PLAY IN THE LEARNING OF DATA STRUCTURES IN A MAURITIAN</td>
<td></td>
</tr>
<tr>
<td>SECONDARY SCHOOL</td>
<td>3931</td>
</tr>
<tr>
<td>K. Goodoory, J. Puja</td>
<td></td>
</tr>
<tr>
<td>EXPERIENCES FROM CONTENT AND LANGUAGE INTEGRATED LEARNING IN</td>
<td></td>
</tr>
<tr>
<td>ENGINEERING EDUCATION</td>
<td></td>
</tr>
<tr>
<td>M. Kukko, N. Helander</td>
<td></td>
</tr>
</tbody>
</table>
DIGITAL FACTORY – FOR BETTER FUTURE
R. Beno, M. Jakabova, V. Prajova, Y. Surinova, J. Urdzikova

GAME-BASED LEARNING OF WORKPLACE STANDARDIZATIONS BASICS
Y. Surinova, M. Jakabova, P. Kosnacova, L. Jurik, K. Kasnikova

IPAD – WELCOME TO MY HUMBLE ABODE OF EDUCATION
K. Kumpulainen, T. Mikola

INTRODUCING VIDEOS AS EDUCATIONAL TOOLS IN OUR SUBJECT AT THE UNIVERSITY
S. Amat, S. Busquier, M.J. Legaz, J. Ruiz

DESIGN FOR A NEW METHODOLOGY IN TEACHING LEARNING PROCESS IN VISUAL EDUCATION
A. Casimiro

THE INTEGRATION OF TABLET PCS IN IRISH POST-PRIMARY EDUCATION: THE VIEW AND EXPERIENCES OF PARTICIPANTS IN THE ‘TABLET PC PROJECT’
J. Heeney, K. Johnston

BRINGING SCIENCE INTO PRISONS

COMPARATIVE STUDY OF THE MULTIPLE CHOICE QUESTIONS AND INTERACTIVE MODE FORMATS FOR CLASS III IN CONDUCTING ACHIEVEMENT SURVEY IN MATHEMATICS
I. Bhaduri

THE SIGNIFICANCE OF THE CHOSEN FIELD OF STUDY, DEPENDING ON THE DIFFICULTY OF FINDING A JOB
H. Stojeanová, V. Blašková

USING SELF-INQUIRY AND SELF-ASSESSMENT IN ELEMENTARY SPANISH COURSES AS LANGUAGE LEARNING TOOLS
M. Mayberry

MC MONITORING: AUTOMATED EVALUATION OF MULTIPLE CHOICE EXAMS AND TEST ITEMS
M. Nettekoven, K. Ledermüller

HITCHCOCK AND OTHERS AS “PROFESSORS” OF CRIMINAL LAW
M. Muñoz de Morales

THE DIAGNOSTICS OF METAPHORICAL THINKING BY MEANS OF PROVERBS IN THE PRIMARY SCHOOL
D. Malinauskienė

STUDENT’S PARTICIPATION IN TEACHER EDUCATORS’ R&D WORK – PHYSICAL ACTIVITY PLAY AND PHYSICAL ACTIVITY IN KINDERGARTENS
H.N. Skaug

A STUDY OF THE RELATIONSHIP BETWEEN GRADES AND ETHICAL ISSUES AMONG BUSINESS STUDENTS IN AN EDUCATIONAL ENVIRONMENT
S. Shurden, M. Shurden, J. Santandreu, J. Garlick

SIMPLE MEASUREMENT ASSIGNMENTS AS ACTIVATORS IN ELEMENTARY ENGINEERING PHYSICS
S. Suhonen, J. Tiitil

QUALITY OF CHILDREN’S EDUCATION IN A PRE-SCHOOL AND PRE-PRIMARY SCHOOL ESTABLISHMENT
D. Malinauskienė

COLLABORATIVE INNOVATION AND CURRICULUM CHANGE IN A COMMUNICATION COURSE FOR JUNIOR ENGINEERS
A. Alwan, D. Prescott

EVALUATION OF THE PAC SYSTEM
N. Kafadarova, S. Stoianova-Petrova, N. Mileva

LECTURERS’ VIEW OF USING ONLINE COMMUNICATION ACTIVITIES TO SUPPORT FACE-TO-FACE LEARNING OF ELEMENTARY MANDARIN
C.S. Goh, C.B. Saenger Pedrero, T. Ahmad Buhari

IMPLICATIONS OF M-LEARNING IN A MODERN CLASSROOM
J. Roberts-Woychesin

STUDENT-GENERATED MULTIMEDIA AND ITS EFFECTS ON LEARNING
Y. Piller

RESEARCH EXPERIENCES AND TOOLS FOR TEACHING REMOTE SENSING
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Cam Techniques and CNC Programming in Technical Universities – An Integrated Approach</td>
<td>4115</td>
</tr>
<tr>
<td>Mechatronics – A Study Program Required by the Industry</td>
<td>4123</td>
</tr>
<tr>
<td>Impact of Motivation Towards Learning Language Achievement Through DST Approach</td>
<td>4132</td>
</tr>
<tr>
<td>Insights from E-Skilling at the “Bottom of the Pyramid”</td>
<td>4139</td>
</tr>
<tr>
<td>Transparency of Research Published in the Leading Polish Educational Journals</td>
<td>4152</td>
</tr>
<tr>
<td>Active Learning and Academic Performance in Higher Education</td>
<td>4160</td>
</tr>
<tr>
<td>A Novel Approach for Teaching and Learning Business Innovations Effectively – A Finnish Case Study</td>
<td>4166</td>
</tr>
<tr>
<td>Artificial Neural Networks, Evaluation and Complexity: Information Technology and Nonlinear Algorithms to Measure Knowledge Systems</td>
<td>4175</td>
</tr>
<tr>
<td>Assessment for Learning: How Plagiarism Could be Used as an Efficient Learning Tool?</td>
<td>4186</td>
</tr>
<tr>
<td>From “Sustainable Development and Environmental Ethics” to “Environmental Technology”. Adapting Sensitization Subjects to the New Degrees</td>
<td>4196</td>
</tr>
<tr>
<td>Investment Games and Social Applications</td>
<td>4203</td>
</tr>
<tr>
<td>Learning Basic Engineering Concepts Through the Use of Computational Fluid Dynamics</td>
<td>4212</td>
</tr>
<tr>
<td>Adaptive Control of a Pneumatic System for Educational Practices</td>
<td>4218</td>
</tr>
<tr>
<td>Moocs as a Way to Disseminate Scientific Knowledge and Expertise Against Death Penalty</td>
<td>4227</td>
</tr>
<tr>
<td>ICT as a Model of Sensory Training in Physiotherapy</td>
<td>4234</td>
</tr>
<tr>
<td>Experiences About Using Peer-Assessment in the Framework of Teaching Applied Mathematics</td>
<td>4237</td>
</tr>
<tr>
<td>Use of Modern Educational Technologies in Teaching the Natural Sciences</td>
<td>4240</td>
</tr>
<tr>
<td>Teaching and Learning in a Collaborative University/Industry Environment: Analyzing the Impact for Students and Partner Companies</td>
<td>4245</td>
</tr>
<tr>
<td>Utilizing a Customer Relations Management System for Recruiting Specific Undergraduate Student Populations</td>
<td>4254</td>
</tr>
<tr>
<td>The Use of Geographical Applications for Micro-Planning School Locations: The @School App for Preschools in Ghent, Belgium</td>
<td>4255</td>
</tr>
</tbody>
</table>
ELECTRONIC TERRITORIAL MAPPING OF SOCIAL VULNERABILITY FOR THE DEVELOPMENT OF EDUCATIONAL POLICIES
A. Flores, V. Medel

4261

EVALUATING SPATIAL AND SOCIAL INEQUALITY BY USING GIS TO ANALYZE THE CATCHMENT AREA AND CAPACITY OF PRESCHOOLS IN GHENT, BELGIUM
K. Fransen, N. Verrecas, M. Ryckewaert, P. De Maeyer, G. Deruyter

4266

REFORMATORY STRATEGIES OF ROMANIAN UNIVERSITY EDUCATION IN THE AREA OF SOCIAL AND HUMAN SCIENCES
A.M. Nita

4273

IS INTERNET AN ACCESSIBLE LEARNING RESOURCE FOR SIGHT-IMPAIRED STUDENTS?
I. Caponetto

4284

AN ONLINE HYBRID MODEL COUPLED TO A DEVELOPMENTAL SCORING RUBRIC FOR THE ASSESSMENT OF STUDENT PROGRESS IN A RESEARCH ABROAD PROGRAM
F. Nieto-Fernandez, D. Quarless, P. Roccanova

4294

DEVELOPMENT OF ACCEPTANCE AND UTILIZATION OF SOCIAL SOFTWARE APPLICATIONS IN HIGHER AND FURTHER EDUCATION - CASE STUDY
M. Cerna

4300

USING ENSEMBLE DATA MINING APPROACHES TO PREDICTING STUDENT ACADEMIC PERFORMANCE
E. Jiang

4308

EXAMINING LEARNERS’ SOCIAL INTERACTIONS IN THE CONTEXT OF ONLINE SOCIAL LEARNING FROM CASTELLS’ LENS OF THE NETWORK SOCIETY: IMPLICATIONS FOR LEARNERS’ ONLINE COLLABORATIONS
M. Kanaris, J.M. Laffey

4314

NEW RESEARCHABLE LANDS RELATED TO THE ARTIST STUDIO. MISFITTED BEHAVIOUR CONTRIBUTING IN THE CREATIVE PROCESS
G. Robles-Reinaldos, D. Murcia García, E. Maroto Pérez

4323

OTHER WAYS TO DRAW
F. Caballero-Rodríguez

4329

THE IMAGE CONFIGURATION. RECEPTION, MEMORY AND TEMPORALITY
G. Robles-Reinaldos, E. Maroto García, D. Murcia García

4342

"PARAMETRIC TRUSSES", AN ANDROID APP TO UNDERSTAND STRUCTURAL DESIGN
F. Hernando Mansilla, M. Molina Iniesta, M.D. Gómez Pulido, F. de Isidro Gordejuela, M.I. Castilla Heredia

4347

INCIDENCE OF FEELINGS AND EMOTIONS IN THE MANAGEMENT OF EXTRA-CURRICULAR LEARNING TIME
J.P. Barberá Cebolla, M. Fuentes Agustí, J. Mora Rojo

4357

FROM CLUTTER TO BUTTER: INGREDIENTS FOR IMPROVING MULTIDISCIPLINARY TEAM-BASED DESIGN EDUCATION IN A LAB CONTEXT
M. Van Hout

4358

DEVELOPMENT OF SOCIAL NETWORKS AND EDUCATION
M. Fuentes Agustí, J.P. Barberá Cebolla, R. Palau Martín

4367

BUILDING ON TEACHERS’ BELIEFS TO SUPPORT INQUIRY PEDAGOGIES. LOOKING FOR SYNERGIES BETWEEN TWO EUROPEAN PROJECTS
A. Quesada, M.R. Ariza, A.M. Abril, F.J. García

4370

EXPERIENCES IN USING ELECTRONIC LEARNING MATERIALS IN HIGHER EDUCATION – A SURVEY AMONG STUDENTS
G. Bujášová

4379

NEW CHALLENGES IN DESIGNING SECOND/FOREIGN LANGUAGE PROGRAMS IN A NETWORKED WORLD
V. Gaballo

4384

MINDTHEGAP(P): LEARNING EXPERIENCE DESIGN IN LIGHT OF THE MOOC CONTROVERSY
A. Benedek

4392

DEVELOPING PROFESSIONAL PROJECT MANAGERS: THE USE OF PRACTICE-ORIENTED LEARNING
C. Algeo

4403

THE FUTURE OF PROFESSIONAL TRANSLATOR TRAINING: TRIANGULATING PRINCIPLES, OBJECTIVES AND CONDITIONS FROM THE ACADEMIC,
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROFESSIONAL AND SERVICE PROVIDER COMMUNITIES THROUGH THE</td>
<td></td>
</tr>
<tr>
<td>“OPTIMALE” NETWORK</td>
<td>4400</td>
</tr>
<tr>
<td>V. Gaballo</td>
<td></td>
</tr>
<tr>
<td>ENCOURAGING PRE-UNIVERSITY STUDENTS IN SCIENCE AND TECHNOLOGY</td>
<td>4401</td>
</tr>
<tr>
<td>F. de Isidro Gordjiuela, F. Hernando Mansilla, M.I. Castilla Heredia</td>
<td></td>
</tr>
<tr>
<td>STUDENT’S REQUIRED COMPETENCIES AND EXISTING DIFFICULTIES ON</td>
<td>4403</td>
</tr>
<tr>
<td>COMPUTER SCIENCE IN HIGHER EDUCATION</td>
<td></td>
</tr>
<tr>
<td>G. Bujidosó</td>
<td></td>
</tr>
<tr>
<td>QUALITY OF LEARNING, LEARNING FOR WELL-BING. CONTRIBUTIONS FOR A</td>
<td>4405</td>
</tr>
<tr>
<td>MODEL OF SCHOOL AS COMMUNITIES OF LEARNING</td>
<td></td>
</tr>
<tr>
<td>J. Verdasca, J.L. Ramos, A. Candeias</td>
<td></td>
</tr>
<tr>
<td>THE IMPACT OF SOCIAL NETWORKS ON THE RESEARCH IN EDUCATION: CASE</td>
<td>4409</td>
</tr>
<tr>
<td>STUDY</td>
<td></td>
</tr>
<tr>
<td>ASSESSMENT OF THE INFORMATION COMPETENCES IN THE STUDY PROGRAMS</td>
<td>4413</td>
</tr>
<tr>
<td>AT THE UNIVERSITY OF ZAGREB</td>
<td></td>
</tr>
<tr>
<td>M. Banek Zorica, S. Spiranec</td>
<td></td>
</tr>
<tr>
<td>FINDING THE BEST APPROACH TO TEACH SOFTWARE ENGINEERING IN</td>
<td>4415</td>
</tr>
<tr>
<td>COMPUTER STUDIES: REVIEWING TWENTY YEARS OF EXPERIENCE</td>
<td></td>
</tr>
<tr>
<td>O. Coltell, P. Latorre</td>
<td></td>
</tr>
<tr>
<td>AN INTERACTIVE STORY-DRIVEN EVENT SIMULATION ENGINE</td>
<td>4419</td>
</tr>
<tr>
<td>R.L. Rosario, E. Perea, K.J. Espinosa, J. Caro</td>
<td></td>
</tr>
<tr>
<td>FAILING FORWARD: HOW A SCHOOL LAUNCHES A CENTER FOR</td>
<td>4423</td>
</tr>
<tr>
<td>ENTREPRENEURIAL LEADERSHIP TO MEET THE NEEDS OF TODAY’S STUDENTS</td>
<td></td>
</tr>
<tr>
<td>P. Sands</td>
<td></td>
</tr>
<tr>
<td>SERIOUS GAME EFEU: DECISION-MAKING CONCERNING COMPANY STRATEGY –</td>
<td>4427</td>
</tr>
<tr>
<td>EXPERIENCES IN EDUCATIONAL TRAINING</td>
<td></td>
</tr>
<tr>
<td>G. Hoeborn, J. Bredtmann</td>
<td></td>
</tr>
<tr>
<td>METHODS IN DIGITAL MARKETING THROUGH SOCIAL MEDIA TECHNOLOGY TO</td>
<td>4431</td>
</tr>
<tr>
<td>ADVERTISE HIGHER EDUCATION BLENDED LEARNING PROGRAMS</td>
<td></td>
</tr>
<tr>
<td>D. Bessette, S. Burton</td>
<td></td>
</tr>
<tr>
<td>ENHANCING ACADEMIC ADVISING EFFECTIVENESS BY MEETING THE NEEDS AND</td>
<td>4435</td>
</tr>
<tr>
<td>EXPECTATIONS OF DIVERSE STUDENTS</td>
<td></td>
</tr>
<tr>
<td>G. Satchell, T. Baghurst, A. Kunz</td>
<td></td>
</tr>
<tr>
<td>EMINUS SYSTEM OF EDUCATION DISTRIBUTED IN SUPPORT OF MULTIMODAL</td>
<td>4439</td>
</tr>
<tr>
<td>EDUCATION</td>
<td></td>
</tr>
<tr>
<td>F. Leyva Picazzo, F. Verdalet Guzmán, S.G. Flores Aguilar, B.E. Salas Parada</td>
<td></td>
</tr>
<tr>
<td>COLLABORATION &amp; INFORMATION MODELING</td>
<td>4443</td>
</tr>
<tr>
<td>A. Aptekar</td>
<td></td>
</tr>
<tr>
<td>TEACHING ACROSS BORDERS – RELATIONSHIPS AND RECIPROCITY</td>
<td>4447</td>
</tr>
<tr>
<td>C. Kawailik, J. Warrell</td>
<td></td>
</tr>
<tr>
<td>THE BENEFITS OF BENCHMARKING NON-TRADITIONAL MANAGEMENT PROGRAMS TO</td>
<td>4451</td>
</tr>
<tr>
<td>INCREASE RETENTION ON HIGHER EDUCATION CONTINUING EDUCATIONAL</td>
<td></td>
</tr>
<tr>
<td>PROGRAMS</td>
<td></td>
</tr>
<tr>
<td>D. Bessette, S. Burton</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF CONFIDENCE INTERVALS IN THE MULTIPLE CHOICE</td>
<td>4455</td>
</tr>
<tr>
<td>EVALUATION SYSTEM</td>
<td></td>
</tr>
<tr>
<td>T. Boronat, D. Garcia-Sanoguera, L. Sanchez-Nacher, O. Fenollar, R. Balart</td>
<td></td>
</tr>
<tr>
<td>MACHINIMA AND LEARNER-GENERATED CONTENT IN 3D IMMERSIVE ENVIRONMENTS: A CASE STUDY OF THE EU CAMELOT PROJECT</td>
<td>4459</td>
</tr>
<tr>
<td>M. Thomas</td>
<td></td>
</tr>
<tr>
<td>BUILDING WINCTON CITY: AN AUTHENTIC LEARNING ENVIRONMENT</td>
<td>4463</td>
</tr>
<tr>
<td>B. Leeds</td>
<td></td>
</tr>
<tr>
<td>TOBACCO DEPENDENCY, SUSTAINABLE AGRICULTURE, AND REGIONAL FOOD</td>
<td>4467</td>
</tr>
<tr>
<td>SECURITY – A CASE STUDY IN MALAWI</td>
<td></td>
</tr>
<tr>
<td>A. Zanecchia</td>
<td></td>
</tr>
<tr>
<td>THE DESIGN AND DEVELOPMENT OF AN ONLINE MULTIMEDIA LANGUAGE</td>
<td>4471</td>
</tr>
<tr>
<td>ASSISTANT FOR WEB USERS WITH DYSLEXIA</td>
<td></td>
</tr>
<tr>
<td>O. Al-Harbi, N. Al-Arfaj, L. Al-Hathloul, M. Al-Ghofaily, D. Madani, A. Al-Wabil</td>
<td></td>
</tr>
</tbody>
</table>
ANALYSIS OF THE DOMINANT MODE OF THINKING OF UNIVERSITY STUDENTS IN DIFFERENT FIELDS OF STUDIES USING THE FOUR BRAIN MODEL OF HERMANN
M. Royo, A. López-Meri, D. Monferrer Tirado, M. Estrada Guillem, M. Segarra, E. Mulet

GAMIFICATION IN ARABIC INTERACTIVE EDUCATIONAL APPLICATIONS: CULTURAL AND LANGUAGE CONSIDERATIONS IN MOTIVATIONAL AFFORDANCES OF DESIGN ELEMENTS
L. Alkwai, A. Alkheibary, A. Almoaythir

SOFTWARE ENGINEERING EDUCATION: THE KING SAUD UNIVERSITY EXPERIENCE
A. Al-Wabil, A. Alghamdi, N. Aldahash

SERIOUS GAME TECUVA: TEAMWORK WITHIN DIFFERENT CULTURES AND VALUES – EXPERIENCES IN EDUCATIONAL TRAINING
G. Hoeborn, J. Bredtmann

AN INVESTIGATION INTO PERCEPTIONS OF ASSESSED MULTI-CULTURAL GROUP WORK
O. Leeds

COMPETENCY BASED EDUCATION FOR REAL ESTATE AGENTS
H. Antoniades, C. Eves

THE EPistemological EVOLUTION OF EDUCATION FOR THE BUSINESS BROKER
H. Antoniades

ARTIFICIAL NEURAL NETWORKS FOR THE PREDICTION OF STUDENTS ACADEMIC PERFORMANCE
A. Zaldivar-Colado, J.A. Aguilar-Calderon, O.V. Garcia-Sanchez, C.E. Zurita-Cruz, M. Moncada-Estrada, R. Bernal-Guadiana

ENGINEERING INNOVATION: A FRAMEWORK FOR TEACHING ENGINEERING STUDENTS THE BUSINESS OF INNOVATION
Y. Maeda, K. Delaney

REFORM AND PRACTICE OF CIVIL ENGINEERING IN CHINESE UNIVERSITIES BASED ON STRUCTURAL EUROCODES
J. Liu, H. Wang, S. Jie

EXPERIENCES RELATED TO CREATIVE THINKING-ORIENTED WORKSHOPS AT THE UNIVERSITY TECHNOLOGY TRANSFER OFFICES
G. Sart

GENDER DIFFERENCES IN CHOICE OF CAREERS IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM): CASE OF TURKEY
G. Sart

CONCEPTUALIZATION AND VISUAL KNOWLEDGE ORGANIZATION: A SURVEY OF ONTOLOGY-BASED SOLUTIONS
A. Benedek, G. Lajos

WHEN EDUCATION IMPACTS ON DEVELOPMENT, AND WHEN IT DOES NOT - SOME EXPERIENCES FROM INDIA
S. Ghosh

MOBILE SOCIAL MEDIA APPLICATION FOR LEARNING CALCULUS
A.N. Cahyono, M. Kharis

VOCAL AND CHORAL PEDAGOGY IN ITALIAN SCHOOL SYSTEM
A. Coppi

THE ITALIAN UNIVERSITIES CHOIRS AND ORCHESTRAS: ACTUALITY AND EDUCATIONAL PERSPECTIVES
A. Coppi

INTRODUCTION OF BLENDED LEARNING INTO THE TRADITIONAL LEARNING ENVIRONMENT OF A COLLEGE IN SAUDI ARABIA
K. Hashim, A. Abdulwahab, I. Kutbi

APPROACHES TO STUDY CULTURE, EQUIVALENCY, AND BIAS: TRIADIC NOTIONS IN DEVELOPING RESEARCH INSTRUMENTS FOR CROSS-CULTURAL COMPARATIVE STUDIES
G. Isikfoğlu

PROBLEMS AND SOLUTIONS IN ASSESSING CRITICAL THINKING DISPOSITIONS OF PRE-SERVICE TEACHERS WORLDWIDE
G. Isikfoğlu

JAZZ AS A LENS FOR CULTURAL LEARNING: HUMANITIES COURSEWORK IN GLOBALLY NETWORKED LEARNING ENVIRONMENTS
L. Hammonds
THE RESPONSIBILITY OF PARENTS IN CHILD’S EDUCATION ACCORDING TO TURKISH CIVIL LAW  4678
A. Arat

PROPOSAL FOR IMPLEMENTING ACCESSIBILITY IN THE SUSTAINABLE CURRICULUM OF THE UNIVERSIDAD EUROPEA  4683
S. Navarro, D. Garzon

A LEARNING BASED ON PROJECT EXPERIENCE IN A FORESTRY ENGINEERING DEGREE  4684
J. Solana-Gutiérrez, C. Alonso-González, M.D. Bejarano-Carrion

PBL AND CASE STUDY DESIGN FOR HIGH FIDELITY PATIENT SIMULATOR USERS  4693
Z. Almsherqi

THE NIGERIA ACTION CYBER CRIME PREVENTION PROGRAMME  4694
P. Amosun, O. Ige

USE OF SOCIAL MEDIA IN HIGHER EDUCATION  4702
T. Arat

INTERVAL METHOD OF SOLVING INEQUALITIES  4709
S. Litvinov, E. Litvinova

EXPERIMENTAL SURVEY RESEARCH TOWARDS NEW CHALLENGE ON ENGLISH LEARNING EXPERIENCES AS COMPULSORY SUBJECT IN JAPANESE ELEMENTARY SCHOOL  4717
M. Iwasaki, M. Tsubaki, N. Kato

DEVELOPING A REFLECTIVE INQUIRY FRAMEWORK FOR INVESTIGATING THE POTENTIAL OF MOBILE AND UBQUITOUS TECHNOLOGIES TO SUPPORT COLLABORATIVE PROCESSES WITH A SCIENCE CONTENT IN PRE-SCHOOLS  4724
A. Redfors

STUDY OF THE PSYCHOMETRIC PROPERTIES OF THE TEACHING ASSESSMENT QUESTIONNAIRE IN THE DISTANCE UNIVERSITIES  4725
I. Cañadas Osinski, I. De la Cuétara San Luis, C. San Luis Costas

CONTRIBUTING TO THE OCW INITIATIVE: IMPLEMENTATION OF A COURSE ON ELECTRICITY AND MAGNETISM  4726
A. Grande, J. Pereda

UTALK: AN ARABIC TALKING BROWSER  4733
H. Harmain, M. Kanel, D. Guerchi, A. Alsharief

IDENTIFYING AND PREVENTING MATH ANXIETY-INDUCED ERRORS IN PRE-SERVICE NURSING AND PARAMEDIC STUDENTS  4740
M. Baron

THE ROLE OF MASSMEDIA IN INFORMING TEENAGERS ABOUT SEXUAL AND REPRODUCTIVE HEALTH EDUCATION  4741
R. Lami, L. Merkuri

APPLYING TO HIGHER EDUCATION: INFORMATION SOURCES AND CHOICE FACTORS  4745
R. Lami, M. Mele

LOST IN TECHNOLOGY BLENDED, ELECTRONIC OR AUGMENTED, IT’S JUST LEARNING  4753
G. Torrisi

MINDOJO: A PLATFORM FOR INTELLIGENT AND ADAPTIVE ONLINE COURSES  4754
G. Zaslavsky

CASE STUDY: HOW A PROOF-OF-CONCEPT BECAME THE WORLD’S #1 ONLINE GMAT PREP (THE ECONOMIST GMAT TUTOR)  4755
G. Zaslavsky

UTILISING THE STRENGTHS OF BLENDED LEARNING WHEN WORKING WITH LITERACY AND READING COMPREHENSION  4756
M. Fahlvik

THE MOOC OF ONE: PERSONAL LEARNING TECHNOLOGIES  4757
S. Downes

LINKING EDUCATION WITH ENTREPRENEURSHIP: TRANSFORMING TRADITIONAL SCHOOLS INTO ENTREPRENEURSHIP INNOVATION-BASED EXPERIMENTAL LEARNING LABS  4758
P. Samb

CHARACTERIZATION OF THE STUDENT PERCEPTION OF THE CONCEPT OF FLEXIBILITY IN THE MANUFACTURING DOMAIN: HIGHLIGHTING THE PATTERNS  4759
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>OF EFFECTIVE LEARNING</td>
<td></td>
</tr>
<tr>
<td>A. Maffei, P. Neves, J. Dias Ferreira, J. Barata</td>
<td></td>
</tr>
<tr>
<td>INFLUENCE OF MANPOWER DEVELOPMENT PROGRAMMES ON WORKERS’ JOB</td>
<td></td>
</tr>
<tr>
<td>PERFORMANCE IN BANKING INDUSTRY IN CROSS RIVER STATE, NIGERIA</td>
<td></td>
</tr>
<tr>
<td>A. Omori Emmanuel</td>
<td>4768</td>
</tr>
<tr>
<td>ACADEMIC AND INDUSTRY PARTNERSHIPS: “DREAMING ABOUT WHAT THE WORLD</td>
<td></td>
</tr>
<tr>
<td>IS GOING TO BE LIKE IN FIFTY YEARS AND EDUCATING FOR A HUNDRED</td>
<td></td>
</tr>
<tr>
<td>YEARS HENCE”</td>
<td>4773</td>
</tr>
<tr>
<td>W. King, G. Polenghi</td>
<td></td>
</tr>
<tr>
<td>GENERAL CHEMISTRY SUBJECT IN THE DEGREE IN CHEMISTRY AND</td>
<td></td>
</tr>
<tr>
<td>TECHNOLOGY FACULTY OF THE UNIVERSITY OF THE BASQUE COUNTRY</td>
<td></td>
</tr>
<tr>
<td>J.L. Mesa, E. Serrano-Larrea</td>
<td>4781</td>
</tr>
<tr>
<td>Y’ALLAH LET’S WORK TOGETHER: COLLABORATIVE LEARNING IN THE UAE</td>
<td></td>
</tr>
<tr>
<td>A. Shine</td>
<td>4782</td>
</tr>
<tr>
<td>HOLISTIC INSTITUTIONAL APPROACH TO BLENDED LEARNING IN HIGHER</td>
<td></td>
</tr>
<tr>
<td>EDUCATION</td>
<td></td>
</tr>
<tr>
<td>M. Danko, J. Stare, M. Decman</td>
<td>4789</td>
</tr>
<tr>
<td>COMPARISON OF INVESTMENTS IN BROADBAND TECHNOLOGY USING OPTIC</td>
<td></td>
</tr>
<tr>
<td>FIBERS, DSL AND WIRELESS IN A RURAL AREA</td>
<td></td>
</tr>
<tr>
<td>J. Qarkachxija</td>
<td>4799</td>
</tr>
<tr>
<td>MANAGING TERTIARY EDUCATION FOR AFRICAN NATIONS TRANSFORMATION AND</td>
<td></td>
</tr>
<tr>
<td>SUSTAINABILITY: NIGERIAN PERSPECTIVE</td>
<td></td>
</tr>
<tr>
<td>M. Modebelu, S. Ugwuanyi</td>
<td>4808</td>
</tr>
<tr>
<td>INQUIRY-BASED PHYSICS EDUCATION AS STRATEGY IN LEARNING NEWTON’S</td>
<td></td>
</tr>
<tr>
<td>LAWS</td>
<td></td>
</tr>
<tr>
<td>J.A. Molina Bolitvar, A.I. Urquiza García</td>
<td>4815</td>
</tr>
<tr>
<td>LEARNING CONFIDENCE INTERVALS WITH MOBILE DEVICES</td>
<td></td>
</tr>
<tr>
<td>F. Tapia Moreno, H. Villa Martinez</td>
<td>4820</td>
</tr>
<tr>
<td>SUCCESS FACTORS IN PROJECT MANAGEMENT. LITERATURE REVIEW</td>
<td></td>
</tr>
<tr>
<td>S. Spalek</td>
<td>4828</td>
</tr>
<tr>
<td>OVERCOMING STUDENTS’ LETHARGY IN EVALUATING LECTURERS’ TEACHING</td>
<td></td>
</tr>
<tr>
<td>COMPETENCE: COVENANT UNIVERSITY EXPERIENCE</td>
<td></td>
</tr>
<tr>
<td>A. Odukoya, A. Atayergo, A. Williams, A. Afolabi, P. Akande</td>
<td>4835</td>
</tr>
<tr>
<td>HOW TO ATTAIN QUALITY IN PUBLIC TERTIARY INSTITUTIONS?</td>
<td></td>
</tr>
<tr>
<td>J. Issa, F.Z. Al-Dhahli</td>
<td>4845</td>
</tr>
<tr>
<td>STUDENT EXPERIENCES OF ETHICAL AND LEGAL VIOLATIONS IN CLINICAL</td>
<td></td>
</tr>
<tr>
<td>WORKPLACE TRAINING</td>
<td></td>
</tr>
<tr>
<td>D. Gabard, D. Lowe</td>
<td>4855</td>
</tr>
<tr>
<td>IMPLEMENTING A THERMOCOUPLLE COLD JUNCTION COMPENSATION IN THE</td>
<td></td>
</tr>
<tr>
<td>CLASSROOM</td>
<td></td>
</tr>
<tr>
<td>A. Fernández Cobeño, P. Fernández Sánchez</td>
<td>4866</td>
</tr>
<tr>
<td>HOW COMMITTED TO TEACHING QUALITY IS YOUR INSTITUTION? – THE</td>
<td></td>
</tr>
<tr>
<td>TEACHING IN HIGHER EDUCATION QUALITY MODEL (THEQM) – UTILIZING</td>
<td></td>
</tr>
<tr>
<td>NINETY NINE PLUS ONE QUALITY INDICATORS</td>
<td></td>
</tr>
<tr>
<td>P. Pouyioutas</td>
<td>4875</td>
</tr>
<tr>
<td>JUNIOR SCIENCE – TEACHING SCIENCE IN ELEMENTARY SCHOOL - THE</td>
<td></td>
</tr>
<tr>
<td>DEVELOPMENT OF TRANSFERABLE SKILLS</td>
<td></td>
</tr>
<tr>
<td>F. Costa, H. Pratas, A. Paramés</td>
<td>4886</td>
</tr>
<tr>
<td>ORIENTATIONS FOR TEACHERS, SCHOOLS AND FAMILIES FOR SOCIAL</td>
<td></td>
</tr>
<tr>
<td>INCLUSION AND EDUCATIONAL: STUDENTS PRADER WILI</td>
<td></td>
</tr>
<tr>
<td>A.A. Rodríguez</td>
<td>4890</td>
</tr>
<tr>
<td>SATISFACTION AND PERCEPTIONS OF THE TEACHERS OF DIFFERENT SPECIETIES</td>
<td></td>
</tr>
<tr>
<td>IN RELATION TO PRACTICUM TEACHING</td>
<td></td>
</tr>
<tr>
<td>A.A. Rodríguez</td>
<td>4901</td>
</tr>
<tr>
<td>FACE TO FACE VERSUS ONLINE UPPER LEVEL ACCOUNTING COURSE</td>
<td></td>
</tr>
<tr>
<td>R. Serrett</td>
<td>4909</td>
</tr>
<tr>
<td>PROCRASTINATION OF THE STUDENTS OF THE VŠB-TECHNICAL UNIVERSITY OF</td>
<td></td>
</tr>
<tr>
<td>OSTRAVA AND THE SLOVAK AGRICULTURAL UNIVERSITY IN NITRA</td>
<td></td>
</tr>
<tr>
<td>M. Miklošiková, Z. Palková, V. Václavík, V. Dirner, J. Valiček</td>
<td>4910</td>
</tr>
<tr>
<td>CASE METHOD AND SIMULATION IN BIOETHICS</td>
<td></td>
</tr>
<tr>
<td>M.T. Lopez de la Vieja</td>
<td>4915</td>
</tr>
</tbody>
</table>
INTERCULTURAL EDUCATION IN ITALY. CULTURAL IDENTITY, EDUCATIONAL EMERGENCY AND TEACHING STRATEGIES
N. Pastena, C. Cirillo, N. Palladino

FURTHER DEVELOPMENT OF A PERFORMANCE MEASUREMENT APPROACH IN A RESEARCH CLUSTER OF EXCELLENCE
S. Schröder, C. Joos, A. Richert, I. Isenhardt

DEVELOPMENT OF INTERUNIVERSITY, INTERNATIONAL AND INTERCULTURAL VIRTUAL COMMUNITY OF PRACTICE TO INTEGRATE ALLOPHONE STUDENTS WITHIN OUR UNIVERSITIES: WHAT SKILLS TO DEVELOP?
C. Asselin

EVALUATING CONTENT AND LANGUAGE IN BILINGUAL UNIVERSITY CONTEXTS: THE GENRE GUIDING CHECKLIST AS AN ASSESSMENT TOOL IN EXPERIMENTAL SCIENCES
M.M. Sánchez Pérez, M.S. Salaberri Ramiro

WEB2.0 TECHNOLOGIES AND THEIR APPLICATIONS IN ONLINE TRAINING
Z. Palková, A. Bandlerová, L. Schwarczová, P. Bielik

ACQUIRING A FOREIGN LANGUAGE VIA COMPUTER: PROS AND CONS OF MODERN DIGITAL EDUCATIONAL ENVIRONMENT
E. Polyudova

PERMANENT SEMINAR OF EDUCATIONAL INNOVATION OF BIOCHEMISTRY AND BIOTECHNOLOGY: RESOLUTION OF CASES, TEAMWORK AND EVALUATION OF CORE COMPETENCIES

ENGLISH PRONUNCIATION TEACHER PREFERENCE: THAI UNIVERSITY ENGLISH LEARNERS’ VIEWS
N. Jindapitak

KEEPING STUDENTS ENGAGED AND INTERESTED IN CLASSROOM
R. Meganathan

THE IMPACT OF A TEACHING METHODOLOGY ON STUDENTS ACADEMIC ACHIEVEMENT
M. Tsereteli

CHEATING AND E-CHEATING: A QUALITATIVE INVESTIGATION OF EXPANDING AN ACADEMIC DISHONESTY FRAMEWORK INTO DIGITAL LEARNING SETTINGS
I. Blau, Y. Eshet-Alkalai, I. Rotem

E-MAIL PROJECT- FAYETTEVILLE, ARKANSAS/ VERACRUZ, MEXICO
G. Madrigal, M. Vázquez

RESEARCH AND RESEARCH DISSEMINATION IN THE UNIVERSITY OF GRANADA’S MASTER’ S DEGREE IN DRAWING: THE MASTER’ S DISSERTATION
M.C. Hidalgo Rodríguez

COLLABORATIVE PROCESSES OF TEACHING AND LEARNING THROUGH LEARNING MANAGEMENT SYSTEMS
A. Lois, L. Milevich, G. Rodríguez Sánchez, A. de la Villa Cuenca

STRATEGIES EMPLOYED BY THE TERTIARY INSTRUCTORS IN PREVENTING THE OCCURRENCE OF ACADEMIC DISHONESTY
A. Dinagsao, E. Perez, R. Mandagdag

ONLINE PROBLEM SOLVING WITH THE USE OF SELECTED COOPERATION TECHNOLOGY
K.A. Strand, T. Hjeltnes, T.A. Hjeltnes, M. Storvik, A. Wrålsen

STANDARDIZED TESTS VS. TEACHERS ‘GRADES: WHAT ARE THE MOST EQUAL? AN EXPERIENCE FROM CANTON TICINO, SWITZERLAND
G. Zanolla

HUMANISTIC ONLINE TEACHING: BRIDGING OLD WORLD WISDOMS WITH NEW AGE TECHNOLOGY
D. Orpustan-Love

THE TRANSITION FROM THE LOWER SECONDARY TO THE UPPER SECONDARY EDUCATIONAL / VOCATIONAL LEVEL. RESULTS OF A LONGITUDINAL STUDY REALIZED IN CANTON TICINO AND ANALYSIS OF THE MAIN INSTITUTIONAL SUPPORT MEASURES
S. Marciometti, S. Ragazzi, G. Zanolla

ASTRONOMY AND SCIENCE EDUCATION
J. Oliver
COMPUTER SCIENCE BEFORE HIGHER EDUCATION 5056

J. Oliver
CHANGING HOW WE TEACH TO ENHANCE UNDERGRADUATE LEARNING AND ENGAGEMENT 5060
L. Crawley, O. Daly, J. Burke

MATCHING HUMAN COMPETENCIES WITH MOBILE TECHNOLOGY AND BUSINESS STRATEGY IN WOMEN-LED SMES 5070
D. Ajumobi, M. Kyobe

EMERGENT LEARNING THROUGH PLAYFUL INTERACTIONS AND SERIOUS GAMES WHEN COMBINING AMBIENT INTELLIGENCE WITH WIRELESS GRIDS 5080
H.P. McKenna, S.A. Chauncey, M.P. Arnone, M.L. Kaarst-Brown, L.W. McKnight

LEARNING COMMUNITIES AT THE UNIVERSITY: A NEW TEACHING APPROACH 5091

COACHING AS EDUCATIONAL METHOD TO ENHANCE UNIVERSITY-STUDENTS’ PERFORMANCE 5095

CYBERPROGRAM 2.0: IMPACT OF THE PROGRAM ON DIFFERENT TYPES OF SCHOOL VIOLENCE AND PREMEDITATED/IMPULSIVE AGGRESSIVENESS 5099
M. Garaigordobil, V. Martínez-Valderrey

"MY E-GO ISLAND": COMPUTER SOFTWARE FOR NURTURING EMOTIONAL-INTELLIGENCE 5100
O. Rubin

AN ATTRACTIVE PROPOSITION TO TEACH MATHEMATICS AT MASTER’S DEGREE LEVEL 5107
S. Amat, S. Busquier, M.J. Legaz, J. Ruiz

GRAPHICAL APPROACH FOR TEACHING TRIGONOMETRIC FUNCTIONS 5115
T. Yi

UMYONG: AN EGRESS INQUIRY OF GRADUATING STUDENTS’ EXPERIENCE IN UNIVERSITY OF MINDANAO 5122
E.C. Tan

UM HASNET.COM PROJECT OF THE ELECTRONICS AND COMMUNICATION ENGINEERING: AN EVALUATION 5128
E.C. Tan, R. Canizares

COOPERATIVE CONFLICT-SOLVING DURING ADOLESCENCE: RELATIONS WITH COGNITIVE-BEHAVIORAL VARIABLES AND PREDICTORS 5135
M. Garaigordobil, V. Martínez-Valderrey

ATTITUDES TOWARDS ICT AND COMPUTER COMPETENCE AMONG UNIVERSITY STUDENTS 5136
S. Agut, F.A. Lozano, R. Peris

EDUCATION IN PHYSICAL THERAPY IN TRIPOLI UNIVERSITY IN LIBYA 5143
W. Astiata, W. Alfantazi, B. Ablounour, A. Jalali, S. Raffa

DEVELOPMENT-ORIENTED TESTING MODEL: CASE STUDY OF THE WEST AFRICAN EXAMINATIONS COUNCIL AND CAMBRIDGE SCHOOL CERTIFICATE EXAMINATIONS 5147
A. Odukoya, A. Atayero, E. Olowookere

CHALLENGES AND FUTURE OF E-LEARNING IN THE ARAB WORLD 5156
M.E. Babiker

MOBILE LEARNING IN SECURITY, CONFLICT AND INTERNATIONAL DEVELOPMENT: GIVING BUSY PEOPLE THE FLEXIBILITY TO STUDY ON THE MOVE 5166
E. Gordon, T. Dodman

INNOVATIVE GOOD PRACTICES FOR USING ICT IN THE CLASSROOM 5175
A. Baldaque

HOW PRE SERVICE TEACHERS IN SPECIAL EDUCATION EXPERIENCE THEIR PROFESSIONAL IDENTITY 5184
B. Gavish

PROBLEM BASED LEARNING: INVOLVEMENT IN SIGNIFICANT LEARNING THROUGH THE USE OF ACTIVE METHODOLOGIES 5195
E. Velasco Luzuriaga
RELATIONSHIP BETWEEN PERSONALITY FACTORS, STRESS SYMPTOMS, COPING STRATEGIES AND GENERAL HEALTH: A STUDY OF YOUNG ANGOLANS
L. Faria, J. Pinto, N. Loureiro

VOCATIONAL INTERESTS OF YOUNG ANGOLAN STUDENTS
L. Faria, N. Loureiro, J. Pinto

TRIVIANOMETRICS: A TEAM-BASED ACADEMIC COMPETITION
P.J. Moreno Rodríguez, C. Puentes Graña, E. Ferrádiz León, E. Flores Varo, M. Acosta Seró, D. Coronado Guerrero

MULTIMEDIA-MEDIATED TBLT APPROACH IN AN EFL CONTEXT: ARE TECHNOLOGY-ENRICHED SYLLABI WELCOMED BY ALL L2 LEARNERS?
M. Ghetanchian, M. Bava Harji

“AN AD’S HIDDEN MESSAGE”: TECHNOLOGY-ENHANCED LEARNING TO DEVELOP 6TH GRADERS’ MEDIA LITERACY SKILLS
Y. Ioannou, I. Nicolaidou

LEARNING A BAYESIAN STRUCTURE TO MODEL ATTITUDES TOWARDS BUSINESS CREATION AT UNIVERSITY
A.M. Ruiz-Ruano García, J. López Puga, M. Scutari

REAL-TIME CONTINUOUS ASSESSMENT OF TOXICOLOGY STUDENTS WITH A WEB-BASED FRAMEWORK SYSTEM OF EVALUATION (TOXICOL)
J. Del Pino, P. Moyano-Cires, M.J. Diaz, L. Lobo, J. García, M.A. Capo, M.T. Frejo

CLIENTS CONSULTING AND TRIAL ROLE PLAYING AS A MODEL OF COMPETENCES ACQUISITION

TEACHERS, PROSPECTIVE TEACHERS AND COLLEGE OF HIGHER EDUCATION STUDENTS ATTITUDES AND BELIEFS TO “ENERGY EFFICIENCY”
B. Gängör Cabbar, E. Akyüz

WHAT EDUCATORS NEED TO KNOW ABOUT BULLYING
L. Butler, J. Perry Evenstad, C. Sanjurjo

EXPLORING PATTERNS OF USING LEARNING RESOURCES AS A GUIDELINE TO IMPROVE SELF-REVISION
P. Sajjacholapunt, M.S. Joy

EMPOWERING GOOGLE, YOUTUBE, AND FACEBOOK (GUF) IN THE TEACHER EDUCATION CLASSROOM
P. Nuangchalerm

PREPARATION FOR ACADEMIC READING IN ENGLISH FOR HIGHER EDUCATION: AN ANALYSIS OF ENGLISH LANGUAGE READING CURRICULUM DESIGN AND PROCEDURE
H.M. Sidek, H. Ab Rahim

FORMULA PROJECT: FACILITATING OPPORTUNITIES FOR OUR DISADVANTAGED ADULT USING MENTORS (ROLE MODELS) TO UNDERPIN LEARNING FOR ADULTS WHO ARE SOCIALLY EXCLUDED
S. Fernández, H. Cormack

THE UNIQUE CHARACTERISTICS OF CHILDREN IN A MULTICULTURAL ENVIRONMENT
B. McGregor

CLIL FUNERARY ARCHAEOLOGY COURSES FOR FIRST-CYCLE AND SECOND-CYCLE DEGREE STUDENTS
L. Cignoni, V. Giulfra, S. Minozzi, G. Formaciari

ASSESSING SERVICE QUALITY AND ADULT LEARNERS’ SATISFACTION IN E-LEARNING ENVIRONMENT
N. Nordin

THE ROLE OF SOCIAL VALUE OVER INDIVIDUAL’S FINAL BEHAVIOR
J.C. Fandos Roig, S. Tena Monferrer, D. Monferrer Tirado, M. Estrada Guillén

RELATIONAL QUALITY EVALUATION OF THE AFTER-SCHOOL IN THE PROJECT “NEW CITIZENS” BY SAN CRISOSTOMO PARISH
M. Moscatelli

CONSOLIDATION OF A MULTIDISCIPLINARY PROJECT FOR THE COORDINATION OF DIFFERENT SUBJECTS OF THE BACHELORS’ DEGREE IN AGRIFOOD AND RURAL ENGINEERING OF UNIVERSITAT JAUME I
ENHANCING THE LEARNING EXPERIENCE THROUGH THREE STAGES OF 
RAPPORT-BUILDING
F. Jamal

DEVELOPING A PRE-SESSIONAL ENGLISH LANGUAGE COURSE FOR 
INTERNATIONAL DISTANCE LEARNING STUDENTS: A CASE OF E-VOLUTION
T. Lynch

MEASURING LEARNING SUCCESS IN STATISTICS COURSES
A. Breitenbach

ENSURING ACADEMIC INTEGRITY WITH ONLINE PROCTORING
D. Kassner

PROVIDING UNIVERSITY STUDENTS WITH SKILLS FOR FUTURE WORK 
ENVIRONMENT
J. Kubatová

INNOVATIVE METHODS OF TEACHING STATISTICS
A. Breitenbach

MATHEMATICS IN LATIN AMERICAN AND CARIBBEAN: CHALLENGES AND 
OPPORTUNITIES
L. Caceres, J. de la Peña, C. Di Prisco, A. Pineda, A. Solotar

EXPLORING THE ONE LECTURE – ONE TEST LEARNING SYSTEM IN JOURNALISM 
CLASS SETTING
O. Omololu

HOW ARE HIGHER EDUCATION STUDENTS USING SOCIAL NETWORKING 
SERVICES (SOCIAL MEDIA) TO SUPPORT THEIR STUDIES? AN EXPLORATIVE 
INTERVIEW
M.T. Perez, M.J. Araiza, C. Doerfer

SMALL URBAN RETAILERS: WHAT MOTIVATES THEIR BUYERS?
S. Tena Monferrer, J.C. Fandos Roig, J. Sánchez García

THE SUBALTERN KNOWLEDGE OF THE URBAN SPACE: CONTESTING 
ARCHITECTURAL LEARNING AND UNDERSTANDING
A.K. Kurjenoja, M.E. Ismael Simental

CITIES AND NATURE
S.S. Saadatian, B. Chenari

MODELING AND ASSESSING THE UNIVERSITY COMMUNITY RELATIONS 
PROCESS: THE ECUADORIAN CASE
O. Pantoja Díaz, M. González Rodríguez

TECHNOLOGY TO USE IN EFL CLASSROOMS: DIGITALISATION OF ENGLISH 
TEACHING IN HIGHER SECONDARY TO TERTIARY LEVELS IN BANGLADESH
I. Hashanat

PEACE EDUCATION IN HIGHER EDUCATION
H. Oueijan

REDESIGNING MASS COURSES IN BUSINESS SCHOOLS – THE CHALLENGING NEW 
ROLE OF THE TEACHER
J. Lindström, M. Nordell

TRADEMARK VALUATION – MANAGING INTELLIGENT PROPERTY FOR 
STRATEGIC MARKETING AND FINANCIAL BENEFITS
L. Stefanovski, G. Rafajlovski, G. Naumovski

TEACHER QUALITY SURVEY FOR GRADE STUDENTS: APPLICABILITY AND 
VALIDATION
A. Pino Vázquez, H. González García, M.B. Coco Martín, A. Mayo Iscar, R. Cuadrado Asensio, E. 
Urbaneja Rodríguez, A. López Miguel, C. Medina Pérez, M.J. Maldonado López, C. Villa Francisco, M.J. 
Martínez Sopena, F.J. Alvarez Guisasola

FACIAL AUTHENTICATION CONSIDERING THE DIFFERENT KINDS OF ACTIVITIES 
in MOODLE AND ITS PLUGINS
F.D. Guillén-Gámez, I. García-Magariño

A FIRST COURSE IN STATISTICS FOR COMPUTER ENGINEERING 
UNDERGRADUATE STUDENTS
A. Capilla

A CASE STUDY OF APPLIED STATISTICS EDUCATION IN AN ENVIRONMENTAL 
SCIENCE DEGREE
A. Capilla

THE IMPORTANCE OF PERCEPTIONS ON THE LEARNING PROCESS. USING

RUBRICS TO ASSESS AND IMPROVE GENERAL SKILLS IN LEARNING OF ECONOMICS
A. Carreras-Marrín, Y. Blasco Martel, M. Bosch Princep, I. Morillo Lopez, G. Cairo-i-Céspedes, M. Badia-Miró

REAL WORLD E-ASSESSMENT USING GOOGLE SITES
S. Warwick, M. Blackburn, L. Booth

DIAMOND – MUSEUMS, ACCESS AND SOCIAL INCLUSION
C. Di Milano, E. Facchetti

LEARNING ARCHITECTURAL PRESERVATION IN SPAIN AND THE UNITED STATES: A COMPARATIVE STUDY
C. Mileto, F. Vegas, V. La Spina, C. Bargues

LEARNING SUSTAINABILITY THROUGH ARCHITECTURAL PRESERVATION
C. Mileto, F. Vegas, V. Cristini, L. García Soriano

DO WE EVALUATE PROPERLY TO OUR MEDICAL SCHOOL STUDENTS?

EDUCATIVE 3D VIRTUAL ENVIRONMENTS
J.L. Chorro Gascó, J. Martínez Mendoza, Y. Ruiz Rubio, S. Pla Sancho, J. Ventura Martínez

THE IMPLEMENTATION OF MOBILE LOCATION BASED-GAMES AND QR CODES: THE CASE OF MOBIGEO
L. Vieira, C. Coutinho, J. Graça, J. Graça

DOES PERCEIVED SELF-EFFICACY INFLUENCE THE ACADEMIC PERFORMANCE OF STUDENTS WITH SPECIAL NEEDS?
K. Nuga

BENEFITS FROM EVALUATION DATA - WAYS TO IMPROVE THE QUALITY OF TEACHING PROCESS
M. Nachshon, A. Rom

‘ROBUST STATISTICS’: A USEFUL TOOL TO HANDLE OUTLYING OBSERVATIONS IN THE LABORATORY
M.C. Ortiz, S. Sanllorente, L.A. Sarabia, A. Herrero, C. Reguera, M.S. Sánchez, J.A. Martín-González, T. Pérez

COMPETENCES FOR COLLABORATION AND KNOWLEDGE SHARING IN DIGITAL SOCIETY - A CASE STUDY WITH AN ERASMUS INTENSIVE PROGRAMME
I. Messias, A. Loureiro

EXPERIENCE OF THE INTERNATIONAL EDUCATIONAL PROJECT CROSS-BORDER UNIVERSITY IMPLEMENTATION AT THE FACULTY OF FOREST ENGINEERING OF PETROZAVODSK STATE UNIVERSITY
V. Kostyukevich, A. Pitsakhin

AN ACADEMIC TRAINING SYSTEM INTEGRATED INTO THE HOSPITAL'S INFORMATION SYSTEM
J.C. Castellanos, C. Brando

EFFECTIVELY LEADING A QUALITY IMPROVEMENT PROPOSAL GROUNDED IN AN EDUCATIONAL INTERVENTION
O. Ekmekci

FRENCH AS A FOREIGN LANGUAGE TESTING THROUGH COMMUNICATIVE COMPETENCE AND COLLABORATIVE WORKS ASSESSMENT RUBRICS IN THE EUROPEAN HIGHER EDUCATION AREA
A. Roffé Gómez

DEVELOPING AND PILOTING A TEACHING/LEARNING UNIT ON SIMILAR TRIANGLES USING DGS
N. Shaya, R. Abu Khait

WORK AND EVALUATION PLAN: A TOOL TO IMPROVE THE PRIMARY CARE FOR MEN IN MARANHÃO - BRAZIL
C.M. Douat Loyola, S. Rocha, A.E. Figueiredo de Oliveira, D. Castro e Lima Baesse, E. Bernardes Ferreira

NEW METHODOLOGIES FOR SECOND LANGUAGE ASSESSMENT: MEASURING AND IDENTIFYING PROFILES IN MIGRANT SCHOOL CONTEXTS
S. Figueiredo, M. Martins, C. da Silva

ENGAGING THE COMMUNITY IN RIVER RESTORATION PROJECT: CREATING A COMMUNITY ACADEMIC PARTNERSHIP
M. Toriman, M. Mokhtar, R. Elfithri, M.R. Zainal Abidin, H. Juahir
OVERCOMING TEAM CONFLICTS IN A SECOND LANGUAGE, PROJECT-BASED LEARNING CONTEXT
A. Dallas

WEB 2.0 FOR COLLABORATIVE WORK AND EFFECTIVE MANAGEMENT OF A VIRTUAL COMMUNITY
N. Batrova, A. Danilov, M. Lukyanova, A. Khusainova

GLOBALIZATION AND PROCESS OF HUMAN DEVELOPMENT
K. Huseynova, E. Zeynalova, Z. Habibova

RESEARCH AND PROMOTION OF FREE SOFTWARE TECHNOLOGY PLATFORMS FOR MASSIVE OPEN ONLINE COURSES
O. Sanzberro, N. Álvarez de Eulate, M. Jareño, O. Etxeberria, U. Manterola, C. Martínez

AUTONOMY AND SELF-EFFICACY OF COLLEGE STUDENTS FOR INDEPENDENT DIGITAL LEARNING IN THEIR DEAD TIME
R. Matsuoka, A. Rahimi

TEACHER CANDIDATES TALK ABOUT HERITAGE LANGUAGE MAINTENANCE: VIEWS AND POSSIBLE APPROACHES
T. Szecsi, J. Szilagyi, G. Giambo

M-LEARNING IN DISTANCE LEARNING: AN EXPERIENCE IN WELFARE STATE SUBJECT
N. G. Rabanal, M.C. Gonzalez Rabanal

C-DAC INITIATIVES IN ICT FOR ADVANCED COMPUTING FOR EMERGING REGIONS
A. Das, P.K. Sinha, P. Wadlakondawar, S. Das

LEARNING COMMUNITIES AND DIGITAL CITIZENSHIP IN ONLINE AFFINITY SPACES: THE PROMISE AND THE PERIL
P. Howard

MASSIVE OPEN ONLINE COURSES IN HIGHER EDUCATION – PERFORMANCE ASSESSMENT IN OPEN LEARNING ARRANGEMENTS
D. Pscheida, A. Lorenz, A. Löffler, N. Kahnwald, L. Zauer, M. Dubrau

A MOOC ABOUT STATISTICAL DATA ANALYSIS WITH R: EXPERIENCES AND RECOMMENDATIONS
J. López Puga

EASING THE LEARNING AND COMPREHENSION OF POWER GENERATION CYCLES WITH THE USE OF A MODEL PROGRAMMED IN ENGINEERING EQUATION SOLVER (EES): ANALYSIS OF A RANKINE CYCLE
C. Montagud, J. Pons-Llinares, M.C. Rodríguez-Monzonis

HERITAGE LANGUAGE LITERACY PRACTICES THROUGH MEDIA TECHNOLOGIES IN HUNGARIAN-AMERICAN FAMILIES
T. Szecsi, J. Szilagyi

FOSTERING CREATIVITY IN COMPUTER SUPPORTED COLLABORATIVE LEARNING ACTIVITIES
D. Lappas, G. Fessakis

A NOVEL APPROACH TOWARDS DEVELOPMENT OF A CAREER MENTORSHIP SOLUTION THROUGH ACTIVE ALUMNI- STUDENT INTERACTION AND COLLABORATION
R. Sinha, A. Oberoi, V. Bhatia, N. De

'ETHICAL COMMITMENT' AS GENERIC COMPETENCE IN DEGREE IN LAW AND BASIS OF JURIDICAL PROFESSIONAL DEONTOLOGY
M. López Gálvez, J. García García-Cerriégon, R. Sanz Burgos

GENDER AND COURSE DIFFERENCES IN STUDENTS APPROACHES TO LEARNING: DO THEY REALLY EXIST?

ACADEMIC STANDARDS BENCHMARK AND ESTATE MANAGEMENT PROGRAMME IN NIGERIAN UNIVERSITIES: COMPLIANCE OR DEVIATION?
A. Oni, S. Olayode, C. Ayedun, O. Akinjare

ASSESSMENT OF THE AUTONOMOUS TIME SPENT BY STUDENTS IN DIFFERENT COURSES IN THE MASTER OF OCCUPATIONAL RISK PREVENTION
M.E. Arce-Fariña, C. Míguez-Álvarez, J.L. Míguez, A. Caballos

USE OF THE SOFTWARE GENOPT AS A SUPPORT TOOL IN SIMULATION PRACTICES
A. Caballos, M.E. Arce-Fariña, C. Míguez-Álvarez, J.L. Míguez

BRING YOUR OWN DEVICE TO LANGUAGE CLASS
T. Talmo
ENJOYING SCIENCE AND ENGINEERING IN PICTURES
J.I. Moreno, E. Aguayo, G. León, M.J. Legaz

SIGMA AIE OFFERS TO FACULTAT PERE TARRÉS THE MOODLE LEARNING PLATFORM, INTEGRATED WITH ACADEMIC MANAGEMENT SYSTEM FOR TEACHERS IN SOFTWARE AS A SERVICE (SAAS)
J. Molins, J. Busquiel

READING IN DIFFERENT ORTHOGRAPHIES: DIFFERENCES IN WORD PROCESSING SKILLS
T. Kargin, P. Miller

THE ROLE OF PHONOLOGY IN THE WORD DECODING SKILLS OF POOR READERS: EVIDENCE FROM INDIVIDUALS WITH PRELINGUAL DEAFNESS OR DIAGNOSED DYSLEXIA
P. Miller, T. Kargin

EVALUATION OF REFORMED COMMUNITY MEDICINE TRAINING PROGRAM AT CAIRO UNIVERSITY
M. Abdelrazik, R. Atmed, D. Saleh

DIAGNOSIS OF INFORMATION AND COMMUNICATION TECHNOLOGIES COMPETENCES IN HIGHER EDUCATION: THE CASE OF THE ACADEMY OF LANGUAGES IN THE HIGHER TECHNOLOGICAL INSTITUTE OF PUERTO VALLARTA
C.M. Amador Ortiz, L.E. García Nacif Hid

THE APPLICATION AND EVALUATION OF AN EDUCATIONAL MODEL FOR THE EDUCATION BY DISTANCE AT THE HIGHER TECHNOLOGICAL INSTITUTE OF PUERTO VALLARTA
L.E. García Nacif Hid, C.M. Amador Ortiz

SPOKEN DISCOURSE PERFORMANCE OF INDUSTRIAL EDUCATION STUDENT TEACHERS
E. Beltran

TEACHING LITERATURE IN A FOREIGN LANGUAGE: NEW OR OLD METHODS?
M.Y. Boulenouar

COMPARATIVE ANALOGY OF OVERCROWDED EFFECTS IN CLASSROOMS VERSUS SOLVING ‘COCKTAIL PARTY PROBLEM’ (NEURAL NETWORKS APPROACH)
H.M. Mustafa, S. Malmoud, I.H. Assaf, A. Al-Hamadi, Z.M. Abdulhamid

THE SUSTAINABILITY OF TECHNICAL EDUCATION: LEADERSHIP AND GOVERNANCE
I. Damaj, A. Ater Kranov

END-OF-DEGREE PROJECT AND THE ESTIMATED TEACHING COMMITMENT: AN EXPERIENCE IN PHYSIOTHERAPY DEGREE
G. Rodríguez-Fuentes, I.M. de Oliveira

A LEARNING EXPERIENCE BASED ON THE USE OF EDUCATIVE VIDEO: STUDENTS’ OPINION
G. Rodríguez-Fuentes, I.M. de Oliveira

GUIDELINES FOR THE QUALITY ASSESSMENT OF INTELLECTUAL INFORMATION AVAILABLE ON INTERNET
S.S. Bedi, A. Kaur

PREPARING A COURSE OF STATISTICS FOR HIGHER EDUCATION
A.V. Garcia Luengo

FLIPPED LEARNING IN A UNIVERSITY EFL COURSE: HELPING STUDENTS IMPROVE THEIR TOEIC SCORES
Y. Ishikawa, R. Akahane-Yamada, C. Smith, Y. Tsuhota, M. Dantsuji

ASSESSMENT OF DENTAL DEGREE AND DENTAL TECHNICIAN STUDENT’S PERFORMANCE TO RELEASE AND INTERPRET TWO-DIMENSIONAL DESIGN DIAGRAMS AND WRITTEN INSTRUCTIONS INTO THE THREE-DIMENSIONAL REALITY
L. Abdeltelhadi, H. Mohammed

INNOVATION IN TECHNICAL AND VOCATIONAL EDUCATION
M. Alseddiqi

MULTIPLE TEACHING METHODS TO ENHANCE REMOVABLE PARTIAL DENTURE LEARNING OUTCOME AND DESIGNING SKILL FOR UNDERGRADUATE DENTAL STUDENTS. A PERSONAL EXPERIENCE
L. Abdeltelhadi, H. Mohammed

DEMOCRATIZING EDUCATION: FROM OPEN EDUCATIONAL RESOURCES TO MASSIVE OPEN ONLINE COURSES. THE CURRENT SITUATION OF UNIVERSITAT
POLITÈCNICA DE VALÈNCIA
M. Peris-Ortiz, M. López Sieben, C. Rueda-Armengot

BUSINESS PROCESS MANAGEMENT AS A MEANS OF INNOVATIVE MANAGEMENT OF SELF-LEARNING IN HIGHER EDUCATION
M. Jiménez Partearroyo, D. Benito Osorio, M. Peris-Ortiz

PEER TUTORING AND PEER TEACHING BY MEANS OF COLLABORATION AND COOPERATION EMPLOYING WEB 2.0 TOOLS
F. Maggi

AUGMENTED REMOTE LABS FOR THE ONLINE ACCESS TO PROGRAMMABLE HARDWARE IN COMPUTER ENGINEERING EDUCATION
D. Sitzmann, D. Möller, F. Mügge

PUBLIC HEALTH FOR ELDERLY: A FACEBOOK
M. Gonzalvo-Cirac, M.V. Roqué Sánchez

NEW VISION TO THE RESEARCHER: CONSULTING AREA
M. Gonzalvo-Cirac

HEALTH EDUCATION IN FIRST YEAR STUDENTS OF SCHOOL OF DENTISTRY ABOUT DENTAL TRAUMA MANAGEMENT IN UNIVERSIDAD COMPLUTENSE DE MADRID (SPAIN)
J. Valdepeñas Morales, A. Adanero Velasco, P. Planells del Pozo

THE VICTORIAN INTERNET OR, WHERE LIBRARY INSTRUCTION MEETS THE HISTORY OF TECHNOLOGY
Y. Novitskaya, L. Knizhnik

THE AGE FACTOR – TAPPING THE STUDENT’S AGE RELATED POTENTIAL
O.S. Ozturk

FLEXIBLE AND POWERFUL TOOLKIT FOR SELF-LEARNING DIGITAL AUDIO PROCESSING
D. Martínez Muñoz, P. Vera Candeas, F.J. Cañadas Quesada, R. Pérez de Prado

BRAIN DRAIN AND THE (DIS) ENCHANTMENT OF BEING A STUDENT OF HIGHER EDUCATION IN PORTUGAL

INCREASING STUDENT ENGAGEMENT, PROFESSIONAL COMPETENCE AND IDENTITY THROUGH THE USE OF SIMULATIONS IN LAW SCHOOL COURSEWORK
T. Brower

INTERDISCIPLINARY COOPERATIVE LEARNING (ICL): A PRACTICAL APPLICATION IN THE SUBJECTS MATHEMATICS AND MICROECONOMICS
B. Corchuelo-Martínez Azúa, M.A. Blanco-Sandía

THE ACQUISITION OF SPANISH L2 PRAGMATICS DURING A STUDY-ABROAD EXPERIENCE
C. Witten

USING VIDEOS TO SUPPORT LEARNING IN FOOD ENGINEERING PRACTICAL TASKS
M.L. Castelló, J. Tarrazó, P.J. Fito

ASSESSMENT OF THE STARTING POINT AND THE KNOWLEDGE ACQUIRED AFTER FOOD ENGINEERING PRACTICAL TASKS USING ONLINE TESTS TAKEN TWICE ON THE POLIFORMAT PLATFORM
M.L. Castelló, P.J. Fito, J. Tarrazó

SEL-P-SENODY E-LEARNING PLATFORM
S. Demigha

THE INTEGRATION OF FIELD OBSERVATION VIDEOS INTO THE TEACHER PREPARATION PROGRAM: A MISSING COMPONENT TO THE FIELD EXPERIENCE
D. Roman, M. Maxfield, M. Rycik

POST-SECONDARY EDUCATION NETWORK SECURITY: RESULTS OF ADDRESSING THE END USER CHALLENGE
D. Andersson, K. Reimers, C. Barreto

E-LEARNING: THE TEACHING OF MANAGEMENT INVOLVEMENT AND STUDENT SUPPORT SYSTEM
S. Rubin

ASSESSMENTS IN THE NEW TECHNOLOGICAL SCENARIOS
A. Lois, L. Milevich, G. Rodríguez Sánchez, A. de la Villa Cuenca

THE COMPREHENSIVE ASSESSMENT SKILLS OF CHINESE BACCALAUREATE
NURSING STUDENTS IN HIGH-FIDELITY SIMULATION BASED LEARNING
H.B. Yuan, B.A. Williams

COMPUTER-BASED NURSING EDUCATION, NEED AND NECESSITY
M. Varzeshnejad

THE TECHNOLOGY TRANSFER ROLE OF THE COOPERATIVE EXTENSION MODEL IN REMOTE RURAL COMMUNITIES: THE ALASKA EXPERIENCE
A. Nakazawa, F. Sorensen, H. Matsuura, D. DeHass

EPORTFOLIOS IN TEACHER EDUCATION IN RUSSIA: PATHWAY FROM ASSESSMENT TO PROFESSIONAL DEVELOPMENT
O. Smolyaninova

THE PRINCIPLES OF DESIGNING AN EXPERT SYSTEM IN TEACHING MATHEMATICS
A. Nurgaliev, L. Salekho, R. Zaripova

UNLEASHING THE POWER OF NETWORK IN RAISING THE QUALITY OF HIGHER EDUCATION
S.G. Konwar

IS THERE A NEED FOR SINGLE SEX EDUCATION? A CRITICAL REVIEW OF THE LITERATURE
L. Dempsey

FACEBOOK AND TWITTER IN EDUCATION: A NEW FACTOR TO IMPROVE CLASSES
J.F. Fondevila-Gascón, M. Carreras-Alcalde, J.L. Del Olmo-Arriaga, L. Feliz-Roié

SEMINARS AS COMPLEMENTARY ACTIVITY IN CHEMICAL ANALYSIS
M.J. Ruiz-Angel, S. Carda-Broch, J. Esteve-Romero

BROADCAST TELEVISION: A TOOL FOR RURAL E-LEARNING DEPLOYMENT
F. Idachaba

RESEARCH-BASED EDUCATION: BIOMASS QUANTIFICATION IN BIOLOGICAL SYSTEMS
N. Rojo, A. Elias, M.A. Corcuer, A. Eceiza

‘VIRTUAL LANGUAGE TABLE’ - A SMARTPHONE APP TO ENHANCE COLLABORATIVE LANGUAGE LEARNING
K. McCloskey, K.W.K. Ong, J. Ghersquiere, S.W. Pang

COLLABORATIVE LEARNING APPLIED TO THE CHEMISTRY SUBJECT IN SEVERAL ENGINEERING DEGREES
J. Esteve-Romero, S. Carda-Broch, M.J. Ruiz-Angel, J. Peris-Vicente

THE TEACHING OF BUILDING STRUCTURES BEHAVIOR IN THE ARCHITECT EDUCATION
E. Fenollosa, I. Cabrera

RESULTS AND BENEFITS OF THE EUROPEAN PROJECTS
C. Marcean, M. Alexandru, E. Cristescu

IN AND OUT UNIVERSITY CLASSROOMS: FACEBOOK AS A TOOL OF CONSTRUCTION OF KNOWLEDGE
M.R. Strollo, A. Romano, M. Capo

WORK BASED LEARNING AS INTEGRATED CURRICULUM. DISTILLING GOOD PRACTICES IN EUROPE
M.R. Ferrandez-Barriuso, M.I. Beas-Collado

SURVEYS AS PRAXIS: A PILOT STUDY ON TRANSFORMATIVE LEARNING ASSESSMENT WITH THE LABORATORY EXPERIENCE OF THE THEATRE OF THE OPPRESSED
P. Vittoria, M.R. Strollo, S. Brock, A. Romano

DEFINITIONAL CONFLICTS BETWEEN EUCLIDEAN GEOMETRY AND DYNAMIC GEOMETRY ENVIRONMENTS: VARIGNON THEOREM AS AN EXAMPLE
M. Ndlovu

SO YOU’RE A TECHNOLOGY EXPERT – WHAT CAN YOU DO?
A. Egan, A. FitzGibbon, E. Oldham, K. Johnston

TRANSFERRING INFORMATION LITERACY SKILLS FROM HIGHER EDUCATION INTO WORK-PLACE INFORMATION LITERACY CONTEXTS
A. Lantz, C. Brage

MEANINGFUL LEARNING AND NEW TECHNOLOGIES: E-LEARNING AND MATHEMATICAL SURFACES
N. Palladino, C. Cirillo, N. Pastena

TECHNOLOGY ASSESSMENT AS AN IMPORTANT PART OF THE SCIENTIFIC
EDUCATION OF ENGINEERS
V. Gorokhov

SYSTEMIZING FORMATIVE AND SUMMATIVE MBA PROGRAM ACHIEVEMENT DATA CAPTURE IN E-PORTFOLIOS
L. Williamson

A PEDAGOGICAL APPROACH TOWARDS BRIDGING THE GAP BETWEEN THEORY AND PRACTICE. A CASE STUDY OF UNDERGRADUATE AND POSTGRADUATE BUSINESS STUDENTS AT COVENTRY UNIVERSITY
A. Amayo, M. Crossan, M. Hardie, A.M. McTavish

OBTAINING STRESS DISTRIBUTIONS IN BENDING THROUGH VIRTUAL LABORATORIES
F. Giménez-Palomares, A.J. Jiménez-Mocholí, A. Lapuebla-Ferri, A. Espinós-Capilla

INTRODUCTION OF THE PROCESS “INNOVATION MANAGEMENT” IN THE PROCESS MAP OF A MATERIALS SCIENCE RESEARCH GROUP: INFLUENCE ON THE FORMATION OF DOCTORATES
G. Barandíka, B. Bazán, M.K. Urtiaga, M.I. Arriortua

VIRTUALIZATION OF TEACHING MODELS IN THE COMMUNICATION SCIENCES AREA IN NEBRIJA UNIVERSITY: THE WAY TOWARDS TEACHING BLENDED AND ONLINE DEGREES
M. Perlado, M. Saavedra, B. Miguel, C. Jimenez, C. Cachan

VALUE CHAIN OF EIDOS, A MATERIALS SCIENCE RESEARCH GROUP: IDENTIFICATION OF THE DOCTORATES AS AN INTEREST GROUP AND DEFINITION OF KEY INDICATORS

THE PROJECT NEBRIJA VALLEY-TUENTI: A COLLABORATIVE EXPERIENCE UNIVERSITY-EDUCATIONAL INNOVATION COMPANY
M. Perlado, A. Ruiz, J. Rubio, N. Grijalba, F. Toledano

THE STUDENTS’ ASSESSMENT ON AN EXPERIENCE WITH COOPERATIVE LEARNING AND SMALL WORK GROUPS USING VIDEOS IN THE COURSE OF PILATES IN PHYSIOTHERAPY
I.M. de Oliveira, G. Rodríguez-Fuentes

AN ENTREPRENEURSHIP ROADMAP FOR ENGINEERING DEGREES
N. Errasti, J.I. Igartua, L. Markuerkaga

WAVE ENERGY SYSTEMS: AN OVERVIEW OF DIFFERENT WAVE ENERGY CONVERTERS AND RECOMMENDATION FOR FUTURE IMPROVEMENTS
B. Chenari, S.S. Saadatian, A. Domingues Ferreira

SECOND YEAR COLLABORATIVE NURSING STUDENTS’ IPAD TRIAL
S. Coffey, B. Muirhead, E. Vogel, L. Graham, A. De La Rocha, D. Chorney, P. Bignell, N. Stein, M. Prasad, F. Desjardins

FIRST PHYSIOTHERAPY STUDENTS’ OPINION ON THE PROTOTYPE OF THE ELECTROThERAPY SIMULATOR ELECTROSIM
G. Rodríguez-Fuentes, I.M. de Oliveira

COLLABORATIVE LEARNING AND SOCIAL NETWORKING IN FINE ARTS APPLIED TO DESIGN TRANSMEDIA PROJECTS
T. Marín-García, J. Maldonado Gómez

GEOmatics FOR SECONDARY sCHOOLs
P. Hajek

DESIGN PROCESS FOR INNOvATIVE POST DISASTER SHELTERS
M. Tafahomi

DIDACTIC AND TECHNICAL CONSIDERATIONS WHEN DEVELOPING E-LEARNING FOR CONTINUING MEDICAL EDUCATION
E. te Pas, M. Wierings-de Waard, B. Suijders-Blok, H. Pouw, N. van Dijk

ACADEMIC STAFF MEMBERS OF FIM AND THEIR LANGUAGE DIFFICULTIES AND NEEDS
B. Frydrychova Klimova

TRANSITION TO A NEW CLOUD-BASED LEARNING MANAGEMENT SYSTEM: LESSONS LEARNED REGARDING FACULTY TRAINING AND SUPPORT IN THE FACULTY OF HEALTH SCIENCES AT THE UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY
B. Muirhead, E. Vogel

TECHNOLOGY ACCEPTANCE AND EPORTFOLIOS: AN INTERVENTION IN A COLLEGE OF EDUCATION


<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Egan, A. FitzGibbon, E. Oldham</td>
<td>6337</td>
</tr>
<tr>
<td>IMAGINING SPACE IN THE UNIVERSITY TEXTBOOK FOR STUDENTS OF ARCHITECTURE</td>
<td></td>
</tr>
<tr>
<td>J. Pallado</td>
<td></td>
</tr>
<tr>
<td>MEETING STUDENTS’ EXPECTATIONS IN A CHANGING TEACHING AND LEARNING ENVIRONMENT – A STUDY ON STUDENT PERCEIVED SATISFACTION</td>
<td>6342</td>
</tr>
<tr>
<td>I. Fernandes Silva, C. Quintas, A. Teixeira, J. Rodrigues Duarte</td>
<td></td>
</tr>
<tr>
<td>A SOFTWARE REFERENCE ARCHITECTURE FOR THE DESIGN AND DEVELOPMENT OF MOBILE WORKFLOW LEARNING APPLICATIONS</td>
<td>6351</td>
</tr>
<tr>
<td>E. Castelan, M.A. Briggs, J. Fernández</td>
<td></td>
</tr>
<tr>
<td>MAXIMIZING THE FLIPPED CLASSROOM MODEL</td>
<td>6361</td>
</tr>
<tr>
<td>C. Gibaldi</td>
<td></td>
</tr>
<tr>
<td>ANALYSIS ON THE BASIC ELEMENTS OF THE INTERNSHIP PROGRAM OF THE INTERNATIONAL MASTER’S DEGREE IN PEACE STUDIES, CONFLICT AND DEVELOPMENT AT THE UNIVERSITAT JAUME I OF CASTELLÓN, SPAIN</td>
<td>6363</td>
</tr>
<tr>
<td>A. Cabedo, L. Moliner</td>
<td></td>
</tr>
<tr>
<td>NATURE OF CLASSROOM INTERACTION IN SOME LIBYAN PRIMARY SCHOOLS</td>
<td>6371</td>
</tr>
<tr>
<td>S. Aldabbus</td>
<td></td>
</tr>
<tr>
<td>VIRTUAL VYGOTSKY: APPLICATIONS OF SOCIOCULTURAL THEORY IN ONLINE TEACHER EDUCATION</td>
<td>6379</td>
</tr>
<tr>
<td>G. Díaz Maggioli</td>
<td></td>
</tr>
<tr>
<td>PUSH THE ENVELOPE: TEACHING ENGLISH IDIOMS THROUGH POETRY</td>
<td>6385</td>
</tr>
<tr>
<td>A. Ameri, S. Hejazi</td>
<td></td>
</tr>
<tr>
<td>IDENTITY AND CONTEMPORARY ART: A DIALECTICAL DISCUSSION TO THE POSTMODERN SUBJECT</td>
<td>6392</td>
</tr>
<tr>
<td>J. Segura Cabañero, T. Simó Mulet, A. Acosta Herasme</td>
<td></td>
</tr>
<tr>
<td>THE USE OF COMMUNICATION TECHNOLOGIES TO SUPPORT TEACHING AND LEARNING PRACTICES IN PORTUGUESE HIGHER EDUCATION</td>
<td>6399</td>
</tr>
<tr>
<td>F. Ramos, M. Pinto, D. Coelho, R. Raposo, P. Almeida, L. Pedro, J. Batista</td>
<td></td>
</tr>
<tr>
<td>LEARNER-CENTERED TEACHING AND EFFECTIVE TEACHING STRATEGIES</td>
<td>6408</td>
</tr>
<tr>
<td>L.A. Butler, C. Sanjurjo, J. Evanstad</td>
<td></td>
</tr>
<tr>
<td>COMPETITIVE BEHAVIORS IN KINDERGARTEN CLASSROOMS AND GENDER DIFFERENCES</td>
<td>6410</td>
</tr>
<tr>
<td>A. Tsiakara, N. Digelidis</td>
<td></td>
</tr>
<tr>
<td>FROM TELECOMMUNICATIONS SYSTEMS TO TELECOMMUNICATIONS SEEN AS A SYSTEM: A PROPOSAL FOR A COMPREHENSIVE CURRICULA</td>
<td>6414</td>
</tr>
<tr>
<td>A. Serrano-Santoyo, J.C. Jiménez-Pérez</td>
<td></td>
</tr>
<tr>
<td>MUSIC MOVEMENT THERAPY IN PATIENTS WHO HAVE SUFFERED A STROKE</td>
<td>6418</td>
</tr>
<tr>
<td>M. Aguilar Rodríguez, J. Hurtado Llopis</td>
<td></td>
</tr>
<tr>
<td>THE SOUTH-WEST EXPERIENCE OF WATER, SANITATION AND HYGIENE (WASH) PROGRAM IN EDUCATIONAL INSTITUTIONS IN NIGERIA: THE NEED FOR POLICY IMPLEMENTATION</td>
<td>6424</td>
</tr>
<tr>
<td>D. Olukanni</td>
<td></td>
</tr>
<tr>
<td>QUALITY EVALUATION REGARDING DISTANCE UNDERGRADUATE COURSES: REFLECTIONS ABOUT BRAZILIAN CONTEXT</td>
<td>6434</td>
</tr>
<tr>
<td>C. Netto</td>
<td></td>
</tr>
<tr>
<td>EVALUATION OF ACHIEVEMENT IN MATHEMATICS FOR THE PROGRAM SCHOOL 2.0 IN SPAIN USING PISA 2012</td>
<td>6440</td>
</tr>
<tr>
<td>C. Vilaplana-Prieto</td>
<td></td>
</tr>
<tr>
<td>USAGE OF PODCASTING AND VIDEOCASTING IN TECHNOLOGY-ENHANCED LEARNING COURSES</td>
<td>6449</td>
</tr>
<tr>
<td>L. Witkowski</td>
<td></td>
</tr>
<tr>
<td>INTERNATIONALIZATION THROUGH A TRIADIC CROSS-BORDER NETWORK: HOW TO BENEFIT FROM DIVERSITY?</td>
<td>6452</td>
</tr>
<tr>
<td>E. Haug-Panneman, A. Kairikko</td>
<td></td>
</tr>
<tr>
<td>CAN SOCIAL WORK PRACTICE BE TAUGHT EFFECTIVELY ONLINE? A COMPARISON OF THE LEARNING OUTCOMES BETWEEN AN ONLINE AND FACE TO FACE GENERALIST SOCIAL WORK PRACTICE COURSE</td>
<td>6453</td>
</tr>
<tr>
<td>M.A. Forgey, A. Ortega-Williams</td>
<td></td>
</tr>
<tr>
<td>AN INNOVATIVE TEACHER IMMERSION RESIDENCY PROGRAM THAT PREPARES HIGHLY EFFECTIVE TEACHERS</td>
<td>6454</td>
</tr>
</tbody>
</table>
S. Judge
EDUCATING RATIONALITY: ASSESSING MASTER RATIONALITY MOTIVE IN FUTURE TEACHERS
R. Hanak, V. Cavojova, E. Ballova Mikuskova

DETECTION AND EVALUATION OF THE READING HABITS SHOWN BY UNIVERSITY STUDENTS IN THE FIELD OF LITERARY WORKS ON ELECTRONIC MEDIA: A CASE STUDY AT THE INTERNATIONAL UNIVERSITY OF LA RIOJA
J. Pérez Sempere, C.M. Jiménez Fernández, A. Rosa Rivera, R.B. Martínez Nieto, I. Roldán Martínez

COLLABORATIVE RESEARCH PROJECT/PRESENTATIONS
A. Carballo, J. Du Fore

PERFORMANCE ASSESSMENT WITH VIDEO FOR PRE-SERVICE TEACHERS
L. Grant, B. Frye

SOCIAL NETWORKING: DEVELOPING INTERCULTURAL COMPETENCE AND FOSTERING AUTONOMOUS LEARNING
R. Vurdien

YOUNG AND ADULT EDUCATION IN THE CONTEXT OF PROGRESSIVE PEDAGOGIES
M. Piza, F. Almeida, A. Kawamoto

FINANCIAL INTELLIGENCE: THE GAP IN NIGERIA'S EDUCATIONAL CURRICULUM
E. Ben-Caleb, S. Faboyede, J. Ogewo

DESIGNING AND IMPLEMENTING AN ONLINE TECHNOLOGY COURSE: AN ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS) ONLINE COURSE
G. Rivero, F. Buchanan

RE-INTRODUCING THE STUDIO CULTURE INTO PLANNING PROGRAMS IN THE USA. STUDY CASE: THE REGIONAL ENVIRONMENTAL & DESIGN PLANNING STUDIO FOR REGIONAL HAZARD PLANNING IN COASTAL GEORGIA
R. Rivero, S. Ramos, U. Yilmaz, J. Croyle

INTERACTIVE TRANSPORT PHENOMENA USING MATHEMATICA
J. Hernandez-Morales

NAVIGATING THE IMPENDING MOOC STORM IN MIDDLE EASTERN HIGHER EDUCATION
D. Gallacher

EDUCATION AND THE BORDERZONE: OPENING UP CONVERSATIONS WITH THE PERFORMANCE ART OF GUILLERMO GOMEZ-PENA
D. Cole

GETTING THE GIST OF CLIL METHODOLOGY IN PLANNING A BRIEF CLIL COURSE: AN EXPERIENCE IN INNOVATIVE CLASSROOM PROCEDURES
L. De Ramón Bou

A CLIL/BLENDED LEARNING APPROACH FOR CRUISE TOURISM COURSES IN ITALY USING LEXICAL/SEMANTIC DATABASES AND INFORMATION TECHNOLOGY RESOURCES
L. Cignoni, R. Marinelli, G.P. Spadoni

AUGMENTED REALITY AS A VISUALIZING FACILITATOR IN NURSING EDUCATION
A. Rahn, H.W. Kjaergaard

A REVOLUTIONARY MOVEMENT WITH IPAD INITIATION IN FIRST AND FIFTH GRADE CLASSROOMS
A. Tekiner Tolu, E. Mede, Y. Kesli Dollar

PROGRAM OUTCOME DATA WAREHOUSE FOR ASSESSING THE EFFECTIVENESS OF ACADEMIC PROGRAM
N. Ahmed, M.A. Ansar, A.M. Al Ameen

EXAMINING AN ONLINE COMMUNITY OF PRACTICE FOR MA TEFL THESIS STUDENTS
A. Tekiner Tolu, Y. Kesli Dollar, E. Mede

A METHODOLOGY FOR FORMING EFFECTIVE STUDENT TEAMS IN ENGINEERING CLASSES
S. Sallieieh, G. Cormier

IMPLEMENTATION OF THE NEW LABORATORY MATTER "QU912 - ANALYTICAL CHEMISTRY I" ADAPTED TO THE NEW EHEA IN CHEMISTRY STUDIES
J. Esteve-Romero, J. Peris-Vicente, S. Carda-Broch, D. Fabregat-Safont

ADAPTATION OF THE THEORY MATTER "CHEMISTRY II" TO THE NEW EHEA IN CHEMISTRY STUDIES

6458
6464
6470
6478
6484
6489
6497
6505
6513
6514
6522
6532
6541
6552
6560
6569
6570
6577
6578
6584
6589
J. Esteve-Romero, D. Fabregat-Safont, S. Carda-Broch, J. Peris-Vicente

FACTORS AFFECTING FAMILY AND SCHOOL COOPERATION
E. Frydlová

AUTO-SEGMENTATION AND CONTENT MANAGEMENT FOR EFFICIENT, PERSONAL, EVENT ACCOMMODATION AND INTEGRATION FOR EFFECTIVE COLLABORATIVE WORK
N. Pujari, C. Sumanth, K. Pandey, A. Srikantan, R. Arvind, T. Dharamsi

THE CHILDREN WITH BEHAVIOURAL PROBLEMS (CHALLENGES, APPROACHES AND POSSIBILITIES)
M. Hutyrova

ACHIEVEMENTS IN COMPUTER SCIENCE COURSES: GENDER ISSUES
I. Berdousis, M. Kordaki

VIRTUAL REALITY TECHNIQUES FOR ARTISTIC EDUCATION
A. Namu, A. Titieni, M. Nedelcu, F. Nedelcu, C. Sarbu

AN ADAPTIVE EDUCATIONAL DIGITAL STORYTELLING ENVIRONMENT FOCUSING ON STUDENTS’ MISCONCEPTIONS
M. Kordaki, P. Psomos

PRE-SERVICE TEACHERS’ UNDERSTANDING OF GEOMETRICAL DEFINITIONS AND CLASS INCLUSION: AN ANALYSIS USING THE VAN HIELE MODEL
M. Ndlovu

DISTANCE AND B-LEARNING APPLIED TO SPORTS MEDICINE AND GERIATRICS TEACHING
P. Vieira-Marques, I. Monteiro, J. Ramos, A. Monteiro, P. Fernandes, M.A. Ferreira, O. Costa

DIGITAL NATIVES: USING ONLINE NEWSPAPERS
T. Süral

HOW EFFECTIVE IS BUSINESS ETHICS EDUCATION IN BUSINESS SCHOOLS?
S. El-Kafafi, O. Guler

ADAPTATION OF THE SUBJECT ‘PRODUCT DESIGN PROTOTYPING WORKSHOP’ TO THE EUROPEAN HIGHER EDUCATION AREA. ANALYSIS, EVALUATION AND DISCUSSION OF NEW APPROACHES
F. Felip, J.L. Navarro, S. Martín, M.L. García

INTER-INSTITUTIONAL COLLABORATION – A TOOL FOR DIVERSIFYING THE PROFESSIONAL SKILLS OF NAVAL ENGINEERING GRADUATES
M.G. Chitu, T. Popa, O. Cupsa

TALENTED HIGH SCHOOL STUDENTS FROM ALL ACROSS RUSSIA RECEIVE AN OPPORTUNITY TO ENGAGE IN WEBINARS AND LEARNING THROUGH SOCIAL MEDIA: AN EYE-OPENING, YET STILL NOT A MIND OPENING EXPERIENCE
I. Vasilyeva

AN OVERVIEW ON BRAZILIAN ACADEMIC WORKS: TECHNOLOGY AND MATHEMATICS IN BASIC SCHOOL EARLY YEARS
A.P. Gestoso de Souza, C.L. Brancaglion Passos

THE THEORY OF ENVIRONMENT ENRICHMENT IN INSTITUTIONS FOR CHILDREN WITH BEHAVIORAL PROBLEMS
M. Hutyrova, M. Ruzicka

USING A SMALL LEARNER CORPUS FOR AWARENESS-RAISING OF L2 PRAGMATICS IN THE EFL CLASSROOM: THE CASE OF DISAGREEMENTS
M.D. García-Pastor

TEACHING METHOD TO DETERMINE DAYLIGHTING IN BUILDINGS
M. Gonzalez Redondo, C. Morón, A. García García

SATISFACTION ASSESSMENT FOR STUDENTS OF “FUNDAMENTALS OF MATERIALS” IN ACADEMIC YEARS 2010-2011, 2011-2012 AND 2012-2013
J. Gadea, A. Rodríguez, C. Junco, V. Calderón, S. Gutiérrez

CHILDREN’S PLAYS AND ILLUSTRATIONS: EMBODIMENT RESOURCES FOR READING PRACTICES
I. Pinto, A. Carvalho

PRACTICAL STEPS TOWARDS ENRICHING DELIVERY SYSTEM AT HIGHER EDUCATION LEVEL
C. Amire

GREEN SPACES FOR NONFORMAL EDUCATION IN VILNIUS UNIVERSITY BOTANICAL GARDEN, LITHUANIA
R. Ryliškienė, A. Meiduvienė, D. Ryliškis
THE ADOPTION OF POWERPOINT IN THE SHARED STORY READING CLASSROOM: ENHANCING EFL OMANI STUDENTS’ MOTIVATION AND READING COMPREHENSION
B. Al Shekali

NEW MEDIA INTEGRATION IN TURKEY: CHALLENGES FOR A HOLISTIC EDUCATIONAL POLICY IN AN ERA OF SPORADIC PROJECTS
C. Bozdag, C. Tongal

ASSESSING INDUSTRY-BASED PROBLEM-BASED LEARNING WITH ENGINEERING STUDENTS: LESSONS LEARNED
J.I. Igartua, N. Errasti, J. Ganzarain

“THICK” NARRATIVES: MINING IMPLICIT, OBLIQUE, AND DEEPER UNDERSTANDINGS IN VIDEOTAPED RESEARCH DATA
K. Cooper, R. White, N. Hughes

THE SYNERGY OF MODERN BUSINESS ENGLISH DISCOURSE: HOLISTIC APPROACH TO TEACHING UNCONVENTIONAL RHETORIC
D. Khramchenko, A. Radyuk

MONITORING AND CONTROL OF DISORDERED EATING BEHAVIORS USING MOBILE DEVICES
D. Ubeda, C. Oliver, E. Lopez, L.M. Jimenez

DISSEMINATION STRATEGY IN THE FRAMEWORK OF TEMPUS PROJECT: “ESTABLISHMENT OF THE SUPRA-REGIONAL NETWORK OF THE NATIONAL CENTRES IN MEDICAL EDUCATION, FOCUSED ON PBL AND VIRTUAL PATIENTS”
N. Alavidze, N. Shavlakadze, G. Shelia, N. Bregadze-Tabagari, S. Tabagari, P. Tsagareishvili

TEACHING BUSINESS ENGLISH: COOPERATIVE DISCursive STRATEGIES AND TACTICS
A. Radyuk, D. Khramchenko

THE WIN-WIN INTERACTION BETWEEN THE 1ST GRADE TEACHER AND THE JUNIOR SCIENCE PROJECT
F. Costa, H. Pratas, A. Paramés, L. Pacheco

ENHANCEMENT OF STRATEGIC THINKING IN DESIGN EDUCATION
W. Park, Y. Choi

EXPERIENTIAL GAMING TO FACILITATE CULTURAL AWARENESS IN CLINICAL PRACTICE
R. Joye, L. Crawley

A STUDY ON THE USE OF ICT IN COMMERCE EDUCATION IN THE CITY OF MUMBAI (INDIA): A CONSUMER’S PERSPECTIVE
V. Shetty

FOREIGN LANGUAGE ACQUISITION
B. Frydrychova Klimova

COMPARING PERSISTENCE AMONGST STUDENTS WITH LOW AND HIGH SENSE OF MEANING AT AN INSTITUTION OF HIGHER LEARNING IN SOUTH AFRICA
S. Makola

EFL TEXTBOOKS IN POST-REVOLUTION EGYPT: A DISCOURSE ANALYSIS
A. Elserafy

LEAN STARTUP AS A TOOL FOR FOSTERING ACADEMIC & INDUSTRY COLLABORATIVE ENTREPRENEURSHIP
J. Ganzarain, L. Markuerkiaga, A. Gutierrez

BUSINESS REAL MARKET TESTING PROGRAMME AS AN EXPERIMENTAL METHODOLOGY FOR ENTREPRENEURIAL EDUCATION IN VOCATIONAL TRAINING
J. Ganzarain, L. Markuerkiaga, B. Konde

USE OF VIDEOS AND GRAPHIC TABLETS IN THE TEACHING-LEARNING PROCESS FOR HANDMADE RENDERING IN THE DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING
J. Galán Serrano, C. García-García, D.J. Díaz García, A. Muñoz Torre, M.C. Pesudo Chiva

STANDARDS OF JOURNALISM EDUCATION – AN INTERNATIONAL COMPARATIVE STUDY IN THE CONTEXT OF MEDIA AND DEVELOPMENT
E. Martens-Edwards, C. Schmidt

E-PORTFOLIO PROJECTS SUBMISSION IN THE DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING
J. Galán Serrano, C. García-García, R. Izquierdo Escrig, M.A. Rodríguez Boado

MUSIC AND MOVEMENT REHABILITATION: INTERACTIVE RESOURCES
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>STUDENTS’ ENGAGEMENT IN SCHOOL: ANALYSES ACCORDING TO PEER VICTIMIZATION AND GRADE, THROUGHOUT ADOLESCENCE</td>
<td>6886</td>
</tr>
<tr>
<td>CURRENT PROBLEMS OF TRANSITION TO CREDIT SYSTEM IN EDUCATION IN KAZAKHSTAN</td>
<td>6894</td>
</tr>
<tr>
<td>RELATIONSHIP BETWEEN CARDIORESPIRATORY FITNESS AND COGNITIVE FUNCTION IN A GROUP OF SPANISH HIGH SCHOOL STUDENTS</td>
<td>6903</td>
</tr>
<tr>
<td>ECONOMIC IMPACT OF EXHIBITIONS IN BELGIUM AND LUXEMBOURG</td>
<td>6908</td>
</tr>
<tr>
<td>OVIDIUS &amp; VARD – A SUCCESSFUL EXAMPLE OF UNIVERSITY – INDUSTRY COOPERATION</td>
<td>6916</td>
</tr>
<tr>
<td>IMPLEMENTATION OF VIDEO-CONFERENCING AND FLIPPED TEACHING TECHNIQUES IN HIGHER EDUCATION: EMPirical FINDINGS FROM BITS PILANI, INDIA</td>
<td>6927</td>
</tr>
<tr>
<td>‘DIVE INTO RESEARCH’: AN INNOVATIVE PROJECT FOR PHARMACY STUDENTS</td>
<td>6932</td>
</tr>
<tr>
<td>REFORMED COMMUNITY MEDICINE TRAINING PROGRAM AT CAIRO UNIVERSITY: PERSPECTIVES OF MEDICAL STUDENTS</td>
<td>6946</td>
</tr>
<tr>
<td>AUDIOVISUAL LEARNING OBJECTS AS SUPPORT FOR AN INTRODUCTORY ORGANIC CHEMISTRY COURSE</td>
<td>6955</td>
</tr>
<tr>
<td>INTERPRETATION OF PHYSICAL PROPERTIES FROM MOLECULAR STRUCTURE. A COMPARATIVE ANALYSIS AMONG THREE WAYS OF ASSESSMENT: OBJECTIVE ITEMS, OPEN QUESTIONS AND GRAPHIC DESCRIPTIONS</td>
<td>6966</td>
</tr>
<tr>
<td>ISSUES AND CHALLENGES IN NIGERIAN PRIMARY EDUCATION SYSTEM IN THE 21ST CENTURY</td>
<td>6976</td>
</tr>
<tr>
<td>THE INFLUENCE OF EDUCATIONAL COMMUNICATION IN THE PROCESS OF CURRICULUM DESIGN</td>
<td>6985</td>
</tr>
<tr>
<td>THE USE OF SOCIAL NETWORKS, BLOGS AND PROFESSIONAL PROFILES IN THE BACHELOR OF BUSINESS ADMINISTRATION: A PILOT STUDY ON THE SUBJECT OF MANAGERIAL SKILLS</td>
<td>6994</td>
</tr>
<tr>
<td>ONLINE FORENSICS: AN EXAMINATION OF VIRTUAL INSTRUCTIONAL CHARACTERISTICS, STRATEGIES, AND TECHNIQUES FOR TRANSFORMATION</td>
<td>7000</td>
</tr>
<tr>
<td>INTRODUCTION OF PROGRESSIVE ASSESSMENT CRITERIA WITHIN PROBLEM BASED LEARNING APPROACH TO TEACH ENGINEERING SCIENCES</td>
<td>7005</td>
</tr>
<tr>
<td>USING SHORT STORIES IN ENGLISH COMMUNICATION CLASSES</td>
<td>7011</td>
</tr>
<tr>
<td>ASSESSING STUDENTS’ COGNITIVE SKILLS WITH CONCEPT MAPPING</td>
<td>7022</td>
</tr>
<tr>
<td>ASSESSING STUDENTS’ COGNITIVE SKILLS WITH CONCEPT MAPPING</td>
<td>7027</td>
</tr>
</tbody>
</table>
K. Soika, P. Reiska

THE INFLUENCE OF SOCIO-ECONOMIC STATUS ON THE LEVEL OF ALBANIAN PARENTS INCLUSION ON THE EDUCATION PROCESS OF THEIR CHILDREN
A. Tana

EFFECTIVE ASSESSMENT IN TERTIARY EDUCATION
V. Viška

ASSESSING THE INFLUENCE OF ABSTRACT CHEMICAL ANIMATIONS FOR STUDENTS WITH CONCEPT MAPPING METHOD
K. Soika, P. Reiska

E-LEARNING EDUCATION SYSTEM AT PHILOSOPHICAL FACULTY OF PALACKÝ UNIVERSITY IN OLOMOUC
K. Setilová

FOSTERING INTERDISCIPLINARY RESEARCH IN COMPUTATIONAL THINKING: PROJECT 3D GEOMETRY

IMPLEMENTATION OF AN ADVANCED RECONFIGURABLE MANUFACTURING SYSTEM AT HIGH SCHOOLS AND UNIVERSITIES
G. Ramírez, J. Miranda, M. Ramírez Cadena, D. Chavarria, A. Molina

AN IMPLEMENTATION OF THE PROJECT APPROACH IN TEACHING INFORMATION SYSTEMS COURSES
K. Kaloyanova

INTERNATIONAL SOCIAL ENTREPRENEURSHIPS LINKING BUSINESS PRINCIPLES TO SOCIAL PROBLEMS
S. Kinsella, N. Wood

DIALOGUE PECULIARITIES IN “GROWN-UP/ EARLY-AGED CHILDREN” WITH DEVIATIONS IN SPEECH ACQUISITION
E. Sheremetyeva, I. Menéndez Pidal

TEACHING STRATEGIES FOR WORKSHOP PARTICIPANTS
C. Sereni-Massinger, N. Wood

EDUCATIONAL ROBOTICS TO IMPROVE DIGITAL LITERACY AS A WAY TO BRIDGING RURAL WORKERS AND TELECOMMUTING
A. Rodríguez

YOUNG ENVIRONMENTAL SCIENTIST (Y.E.S) PROGRAM TO ENHANCE THE ENVIRONMENTAL AWARENESS AMONG THE MALAYSIAN SCHOOL STUDENTS

"VISUAL LISTENING" IN THEORY AND PRACTICE OF EFFECTIVE FOREIGN LANGUAGE TEACHING
M. Varlamova, A. Miftakhova, E. Palekha

I-FEEDBACK: ENHANCING ONLINE WRITING INSTRUCTION AND FEEDBACK THROUGH AUDIO-VISUAL COMMENTARY
A. Grigoryan

APPLYING ANIMATED PEDAGOGICAL AGENT FOR STATISTICAL LEARNING: A USABILITY STUDY
R. Mohd Rias, N. Syahida Abu Bakar, Y.B. Wah, N. Hazrul Salam

POTENTIALITIES AND INSUFFICIENCIES OF THE ICT INCORPORATION IN HIGHER EDUCATION PROGRAMS FOR THE TRANSITION OF EDUCATIVE MODALITIES: CASE OF THE UABC IN MEXICO
D. Chan Lopez, T. Gaona Arredondo, A. Camarena Flores

STANDARD LANGUAGE VERSUS ACTUALLY SPOKEN LANGUAGE EXEMPLIFIED WITH SPANISH
P. Wahl

CREATING AND USING EDUCATIONAL VIDEO TUTORIALS IN CLASSES
A. Oujezdsky, A. Sliva, R. Brazda

USING THE CASE METHOD BASED ON NEWSCLIPS TO TEACH MACROECONOMICS: APPLICATION AND EFFICACY
M.A. Martínez Navarro, E. Ferrándiz León, E. Flores Varo, M.M. Muñoz Leonisio

ARTICULATION OF DISTRIBUTED AND COLLABORATIVE DESIGN OF ENTREPRENEURIAL COURSES
K.A. Strand, T. Hjeltnes, T.A. Hjeltnes, M. Storvik

ANALYZING AND PRODUCING EDUCATIONAL RESOURCES FOR DIDACTALIA.NET: A PILOT PROJECT LAUNCHED AT THE UNIVERSITY OF DEUSTO (SPAIN) WITH

STUDENTS FROM PRIMARY EDUCATION DEGREE
A. Arruti Gómez

GO FOR IT. ANALYZING THE IMPACT OF ENTREPRENEURIAL AWARENESS PROGRAMMES AT THE UNIVERSITY OF DEUSTO (SPAIN). THE CASE OF INGENIO AND EKIN-IT
A. Arruti Gómez, G. Azanza

THE MASTER IN PHYSICS STUDENT PROFILE AT THE UNIVERSITY OF BUCHAREST
V. Covlea, M. Calin, A. Jipa, B. Butoi, B. Bita, C. Berlic, E. Barña

THE WEB-BASED INTERACTIVE EDUCATIONAL APPLICATION AIM-MOBILE WEB LEARNING PLATFORM
J. Debran, N. Meraño, J.C. Aguado, R.J. Durán, J. de Miguel, P. Fernández, E. Abril, R. Lorenzo

OPTIMAL SHELTER AID AFTER A DISASTER
M. Tafahomi

USE OF SOCIAL NETWORKING AS AN E-LEARNING PLATFORM IN HIGHER EDUCATION
A. Hanif, S. Tariq, S. Hameed

INTELLIGENT DECISION SUPPORT FOR UNIVERSITY APPLICATION USING RIASEC CODES
J. Silva, F. Portela, M.F. Santos, M.C. Taveira

FINDING INFORMATION WITH ACADEMIC PURPOSES AMONGST UNDERGRADUATE STUDENTS: WHERE STUDENTS DO SEEK INFORMATION?
R. Comas-Forgas, J. Sureda-Negre, B. Mut-Amengual, M. Morey-López

MOBILE ASSISTED LANGUAGE LEARNING: POTENTIAL AND LIMITATIONS OF USING 'WHATSAPP' MESSENGER TO ENHANCE STUDENTS WRITING SKILLS
A. Gasmi

DETECTING CENTRAL RESEARCH RESULTS IN RESEARCH ALLIANCES THROUGH TEXT MINING ON PUBLICATIONS
T. Thiele, C. Joos, F. Welter, R. Vossen, A. Richert, S. Jeschke

WEB APPLICATION FOR EVALUATIONS AND QUALIFICATIONS

METHODOLOGICAL INNOVATION IN THE FINAL PROJECT: THE CASE OF BUILDING ENGINEERING
M. Pons Morera, C. Linares, A. Montañana, E. Navarro-Astor, I. Fernández-Plazaola

STUDY ON THE ACCEPTANCE OF FACEBOOK IN DESIGN STUDIO SUBJECTS ACADEMIC USAGE AND THE IMPACT OF TUTOR PARTICIPATION IN FACEBOOK GROUP
T.H.A. Ho

ANALYSIS OF ACADEMIC PLAGIARISM IN DIFFERENT EDUCATIONAL STAGES. COMMISSION LEVELS REPORTED BY STUDENTS OF SECONDARY EDUCATION, HIGH SCHOOL AND UNIVERSITY
M. Morey-López, P. Mayrata-Pou, O. Álvarez-García, M. Oliver-Trobat

NETWORK TRIVIAL: A DIFFERENT LEARNING EXPERIENCE
T. Olivares, J.M. Villalon, M.C. Ruiz

EXPERIMENTAL PRACTICES TO OPTIMIZE DAYLIGHTING FOR ARCHITECTURAL STUDENTS IN MADRID
M. Gonzalez Redondo, A. García Garcia, C. Morón

THinking outside the Box, a challenge for students of higher learning: Case study of polytechnic of Namibia
L. Makanyua, S. Nggada

REALISM IN AN IDEOLOGICAL AGE: METHODOLOGY AND PRACTICE IN TEACHING IR ONLINE
A. Walter

RELEVANCE OF SIX SIGMA IN TECHNICAL EDUCATION SYSTEM
C.S. Rajeshwari, A. Potnis

TECHNOLOGICAL DEVELOPMENT AND ELECTRONIC LEARNING IN THE LIFE OF STUDENTS FROM RURAL AREAS IN SOUTH AFRICA. WHAT DO STUDENTS SAY?
C. Ravolzi

PROCESSES OF SPECIAL EDUCATION INTERVENTION IN STUDENTS WITH MULTIPLE DISABILITIES
J. Kantor, L. Ludikova

CONSTRUCTION OF MEANINGFUL KNOWLEDGE IN ECONOMICS DEGREE:
APPLICATION OF QUANTITATIVE METHODS IN WORLD ECONOMICS
C.M. Llorca Rodríguez, R.M. García Fernández, A.C. Casas Jurado

DEVELOPMENT OF FINAL DEGREE PROJECTS (FDP) THROUGH THE MOTOSTUDENT COMPETITION
I. Fernandez, R. Ansola, J. Aguirrebeitia, E. Veguería, S. Plaza, M. Abasolo

LEARNING DESIGN BY CINEMA. AN EXPERIMENT
A. Urroz-Osés

THE KNOWLEDGE AGE: FROM E-LEARNING TO MOBILE LEARNING
E. Muscalu, A. Stanit, M. Constantinescu

CURRICULUM DESIGN FOR ACCOUNTING EDUCATION IN NIGERIA
B. Oyewo, S. Faboyede, E. Ben-Caleb

FISIOTEST: ORTHOPAEDIC TESTS ONLINE

EDUCATION IN RUSSIA IS THE WAY TO GLOBALIZATION
E. Pleuchova, L. Gazizova

THE USE OF DIGITAL RESOURCES IN LEARNING IN PRIVATE SCHOOL AT THE COMUNITAT VALENCIANA
L. Tolosa Robledo, J.R. Díaz Suáez, C. Hernández

BRINGING SCIENTIFIC RESEARCH INTO THE CLASSROOM
C. Mantovani, G. Mascarello, A. Pinto, F. D’Este, A. Gallina, L. Ravorotto

A PILOT BASED ON A PROCESS OF IMMERSION OF 1ST YEAR ACADEMIC STUDENTS IN A PROBLEM-BASED METHODOLOGY, DEALING WITH A REAL INDUSTRIAL ENVIRONMENT, AND USING AN E-LEARNING PLATFORM
A. Martorana Gomis, M. Boca Matí, J. Batlle Grabulosa

IMPACT OF ICT ON STUDENT’S LEARNING ACHIEVEMENT AND MOTIVATION - SOME DEBATABLE ISSUES
A. Kumar, S. Kedar

MOBILE RESOURCES FOR ACCESS TO THE AUDIOVISUAL INFORMATION IN PHYSIOTHERAPY STUDIES AT THE UNIVERSITY OF VALENCIA

THE SO.RE.COM. “A.S. DE ROSA” @-LIBRARY: A MULTI-PURPOSE WEB-PLATFORM IN THE SUPRA-DISCIPLINARY FIELD OF SOCIAL REPRESENTATIONS AND COMMUNICATION
A.S. de Rosa

A PROPOSAL OF COMPUTER-PRACTICAL CLASSES RELATED TO STRUCTURAL REHABILITATION IN BUILDINGS
J. López López

THE FACTORS SUPPORTING UNDERSTANDING THE STUDENTS WITH MULTIPLE DISABILITY
J. Kantor

THE IMPACT OF GENDER AND RACE ON NON-NATIVE EFL TEACHERS’ SELF-EFFICACY BELIEFS: A CASE STUDY OF A MULTICULTURAL ENVIRONMENT
A. Gasmi

BRINGING UNIVERSITY AND INDUSTRY TOGETHER IN PARTNERSHIP: A COLLABORATION BETWEEN COVENTRY UNIVERSITY AND UNIPART MANUFACTURING GROUP
I. Wilson, C. Smith

ASSESSMENT OF CRITICAL ANALYSIS COMPETENCY IN FIRST YEAR DENTISTRY STUDENTS USING A SELF-EVALUATION TOOL
M.V. Roqué Sánchez, I. Morales, I. Segarra

THE NETWORK SOCIETY AND HIGHER EDUCATION
N. Wesseling

HUMAN OR MACHINE: A COMPARISON OF TEST-TAKERS’ ATTITUDES TOWARDS THE IELTS AND TOEFL IBT SPEAKING SECTIONS
C. Dean

ADAPTIVE EDUCATIONAL ENVIRONMENT: CREATING A CULTURE OF INNOVATION TO SUPPORT STUDENTS’ PRACTICAL KEY COMPETENCES DEVELOPMENT
P. Prolasek
CREATIVE LEARNING AND TECHNOLOGY FILLING THE BUSINESS REALITY GAP FOR STUDENTS (A FINNISH EXAMPLE)  
P. Dickinson, P. Haavisto

AN ONTOLOGY EDITOR: CREATING CONCEPT MAPS FOR SEMANTIC WEB BASED E-LEARNING SYSTEMS  
K. Icoz, M.A. Cakar, T. Yigit, S. Egi

BLENDED LEARNING IN CHEMISTRY LABORATORY  
J.M. Molina-Jordá, M.S. Sanchez-Adsuara

LEARNING AND TEACHING STYLES: THE OPTIMAL METHOD OF CREATING THE MOST EFFECTIVE TEXTBOOKS ON SECONDARY VOCATIONAL SCHOOLS  
P. Pavlasek, D. Hivesova

STUDENT MISCONCEPTIONS IN STUDYING “GALVANIC CELLS”  
A. Sulcits

MENTORS AND PEERS: PROMOTING CULTURAL EXPERTISE IN MULTICULTURAL LEARNING ENVIRONMENT  
N. Mikhaylov

STUDENTS ENGAGEMENT IN SCHOOL, ACADEMIC ASPIRATIONS, AND CAREER EXPLORATION OF PORTUGUESE ADOLESCENTS  
F. Veiga, I. Oliveira, M.C. Taveira

WEB BASED SIMULATIONS AS ALTERNATIVE REPRESENTATIONS OF COMPLEX CONTENTS IN E-LEARNING SYSTEMS FOR COMPUTER ENGINEERING  
D. Sitzmann, D. Möller

S. Sirilak, B. Wachirasakmongkol, S. Sengsri

WHICH FACTORS DRIVE E-LEARNING USAGE?  
A.M. Horr, H. Rothe, M. Gersch

EXTENDING THE CURRICULUM OF VOCATIONAL TRAINING STUDENTS FROM THE UNIVERSITY. A TEACHING EXPERIENCE  

THE 3RD ROUND OF OPERATION PURSUANCE OF THE EXTERNAL ASSESSORS: CASE STUDY OF NARESUAN UNIVERSITY OF OFFICE FOR NATIONAL EDUCATION STANDARDS AND QUALITY ASSESSMENT NETWORK CENTER’S RESPONSIBLE AREA  
B. Wachirasakmongkol, S. Sengsri, S. Sirilak

INNOVATION ON VETERINARY PHARMACOLOGY LEARNING THROUGH MEDICINE ADS  
M.T. Encinas, J.M. Ros-Rodríguez, J.A. Gilabert

WORKPLACEMENT PROGRAMME: SANTANDER CRUZ CEPYME IN UNIVERSITAT JAUME I  
M.I. Beas-Collado, C. Pérez, L. Garcia

CU2LTR: TEXTING AND LITERACY IN ENGLISH CLASSROOMS  
L. Kajee

RELATIONSHIPS OF TEACHING APPROACHES BASED ON STUDENTS’ PERCEPTION, LEARNING APPROACHES AND STUDENT ENGAGEMENT  
H.C. Teoh, M.C. Abdullah, S. Roslan, S. Mohd Daud

NEW TECHNOLOGIES AND MINORITY LANGUAGES LEARNING HOW TO USE INTERACTIVE TECHNOLOGICAL TOOLS TO DEVELOP OCCITAN LANGUAGE  
M.A. Châteaureynaud

LEARNING THROUGH GAMES: THE USE OF CROSSWORDS AS AN EDUCATIONAL TOOL IN THE DEGREE OF PHYSIOTHERAPY  

AN AVIATION BASED CURRICULUM FOR SECONDARY SCHOOLS INCLUDING THE LEARNING GAME FLYHIGH!  
M. Koenig, B. Wiesler, V. Theofilis, M. Bernreiter, S. Pausch

UNIVERSITAT INTERNACIONAL DE CATALUNYA FACULTY OF DENTISTRY STUDENT MOBILITY PROGRAM. A 10-YEAR STUDY  
M. Mercade, M. Arregui, S. Fernández, L. Giner, D. Violant
EXPLORATORY STUDY OF THE MOTIVATION OF LECTURERS AT SPANISH UNIVERSITIES WHO BASE THEIR TEACHING METHODOLOGY ON AN EDUCATION FOR THE DEVELOPMENT OF GLOBAL CITIZENSHIP APPROACH
A. Cano-Ramírez, A. Boni Aristizábal

DEGREE FINAL PROJECT TOOLS TUTORIALS
J. Madera Gil, L. Such Miquel, M. Zarzoso Muñoz, Y. Alakhidar, J. Benítez Martínez, F. Martínez Arnau, J. Casaña Granell

MULTIMEDIA PRESENTATION AS A STRATEGY OF TEACHING SPEAKING
T. Bochina, J. Ageeva, V. Vlasicheva

VIDEO-BASED PEER-REVIEW MICROBIOLOGY TEACHING AND LEARNING STRATEGY
B. Sampaio-Maia, V. Teixeira, P. Vieira-Marques

CLASSROOM LIFE IN GREEK PRIMARY SCHOOL IN THE PERIOD OF CRISIS
T. Babalis, K. Tsoli, C. Koutouvela, N. Staerou, M. Konsolas

THE EDUCATIONAL LEARNING LIFECYCLE AND THE CLOUD COMPUTING
A. Gonzalo Nuño, C.M. Gascueña

AN EXPERIENCE OF TEACHING BIOETHICS AT SECONDARY SCHOOLS IN KARACHI, PAKISTAN: LEARNING EXPERIENCE IN SECONDARY SCHOOLS
M. Khan

INITIATIVES IN THE CREATION OF MOBILE APPLICATIONS AND MOBILE VERSIONS IN THREE ACADEMIC LIBRARIES IN PUERTO RICO
L. Pagán, R. Barrios, L. Mendez

DEVELOPING STUDENTS’ 21ST CENTURY SKILLS: CHALLENGES & POSSIBILITIES FOR TEACHERS AND TEACHER EDUCATION
D. Chambers

E-BUDDY: COLLABORATIVE LEARNING WITH ELECTRONIC DOCUMENTS AND EDUCATIONAL MATERIAL
O. Jorns, G. Pendl

TWO TRADITIONS: THE THREE P’S OF VOCAL JAZZ PEDAGOGY IMPACTING VOCAL EDUCATORS
L. Hammonds
VIRTUAL SESSIONS

Barriers to Learning
Blended Learning
Collaborative and Problem-based Learning
Competence Evaluation
Computer Supported Collaborative Work
Curriculum Design and Innovation
Diversity issues and women and minorities in science and technology
E-content Management and Development
e-Learning
Education and Globalization
Education in a multicultural society
Educational Research Experiences
Educational Software and Serious Games
Enhancing learning and the undergraduate experience
Ethical issues in Education
Evaluation and Assessment of Student Learning
Experiences in Education. Transferring disciplines
Impact of Education on Development
Inclusive Learning
International Projects
Language Learning Innovations
Learning and Teaching Methodologies
Learning Experiences in Primary and Secondary School
Lifelong Learning
Links between Education and Research
Massively Open Online Courses (MOOC)
Mobile learning
New challenges for the Higher Education Area
New projects and innovations
New Trends in the Higher Education Area. ECTS experiences
Organizational, legal and financial issues
Quality assurance in Education
Research Methodologies
Research on Technology in Education
Student and staff mobility programmes
Student Support in Education
Technological Issues in Education
Technology-Enhanced Learning
University-Industry Collaboration
Virtual Universities. Distance education
Vocational Training
MONITORING AND CONTROL OF DISORDERED EATING BEHAVIORS USING MOBILE DEVICES

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Each day an increasingly amount of people suffer from a DEB (Disordered Eating Behavior). Anorexia and bulimia are the most popular DEBs known. Anorexia affects around 1% of female adolescents being the most dangerous range of age between 12 and 17 years old. The main problem to focus on is not only this type of disorders but also psychological disorders as muscle dysmorphia or obesity. According to the WHO (World Health Organization), in 2008 more than 1.4 billion adults were overweight, which means that, more than 10% of the world’s adult population was obese. Because of this, the WHO has been forced to give obesity the proportion of global epidemic. Eating disorders have the highest mortality rate of any mental illness. This project’s most important aim is to assist doctors and psychologists with the control and monitoring of patients who suffer from anorexia, bulimia, obesity and other eating disorders.

This paper derives from a project that brings together health investigations, concerning eating disorders, and the concept of IoT (Internet of Things). The main objective of this project is to educate about healthy eating habits using current technology such as smart phones, tablets or sensors to monitor the activity.

Smart phones and tablets are gaining more users each day. Spain is the country, in the European Union, where there are more smart phones per mobile phone acquired. This, together with the growing use of tablets, built the idea of patient tracing using mobile devices.

This project consists of an Android Application developed to help health-care professionals educate patients’ eating habits and lead them towards healthier habits. Constant monitoring of the patient in different scopes is the main feature offered by this project. It provides a tool for the user to insert the ingested food, within the five different meals of the day, and a tool for the user to indicate his weight so that the health-care professionals can keep track of the patient’s eating habits and be able to correct them. Knowing the patients’ symptoms and moods during each day makes it possible, for the health-care professionals, to follow the progress of the patient during the treatment. This psychological monitoring will help provide therapies in a more personalized way. Most of the time, patients’ psychological problems have nothing to do with eating disorders but they can result in the appearance of DEBs.

On the other hand, the project is also developed to include the direct measurements taken by a series of sensors, provided by the Fitbit device, which return data from the physical activity of the patient. It is also possible for the patient to insert the physical activity practiced if there is no Fitbit device available.

Finally, the automation of the dietary intake data will become a key aspect of this project as this technology will make the application easier to use and will require less effort from the patient offering, for example, a recognition of packaged and unpackaged food. This tool is in process of experimentation for a number of patients in a clinic of psychological and nutritional care, which specializes in DEB treatment.

keywords: disordered eating behavior, educate eating behavior, smartphone app, android, psychological monitoring, sensors, automation dietary intake.
MONITORING AND CONTROL OF DISORDERED EATING BEHAVIORS USING MOBILE DEVICES

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Abstract

Each day an increasingly amount of people suffer from a DEB (Disordered Eating Behavior). A project that brings together health investigations, concerning eating disorders, and the concept of Internet of Things [1] is presented. It is focused on education about healthy eating habits using current technology, such as smart phones, tablets or sensors in order to monitor the activity. Eating disorders have the highest mortality rate of any mental illness, and our most important aim is to assist doctors and psychologists with the control and monitoring of patients who suffer from anorexia, bulimia, obesity and other eating disorders. An Android application has been developed to help health-care professionals educate patients’ eating habits and lead them towards healthier life. The automation of the dietary intake data will become a key aspect in this work, as this technology will make the application easier to use and will require less effort from the patient offering.

Keywords: eating disorders, dietary intake, anorexia, bulimia, Internet of Things, IoT, sensors

1 INTRODUCTION

As it is well known, certain feeding problems may come from different anxiety disorders, such as psycho-affective, obsessive-compulsive or post-traumatic disorders. These types of behaviours should be controlled not only by a nutritionist but also by a psychologist or psychiatrist who can evaluate and generate control tools to deal with these impulses.

Considering that these kind of disorders are associated, not only with a wrong dietary guidelines, but also to a maladaptive behaviours, it will be required periodic feedback from the patient to detect and correct them more accurately. Generally, a specialized physician often makes an objective review based only on the prescription of a diet and obtaining from the patient some feedback that usually consists in the annotation of the evolution of the weight periodically.

However, due to the incipient penetration of smartphones in our society, the doctor may prescribe a diet that the patient could take advice from the device, in the consulting room or remotely. In order to do this, he would record each food intake based on the patterned menus, the number of portions consumed or even other food intake consumed out of diet.

In addition, according to the records provided by the patient, or following the guidelines of the psychological treatment prescribed by the psychologist, the doctor may even vary the initial diet to adapt it to other phases of treatment. To perform this, he could access and modify, in real time, all those menus, food and portions he believes to be the most appropriate.

Considering that some types of behaviours may come from a non control of impulses front of certain foods, and some impulsive food intakes may be associated with emotional patient situations also some subjective records will be required, such as the state of the patient’s mood during the day, if the
subject is under stressing or anxious situations in his day-to-day, or even his health state. This type of emotional situations should be recorded daily in conjunction with those perceptions produced after each food intake, as satiety or similar thrills.

Most diets fail due to the patient's lack of motivation from the patient, either because they should be maintained for extended temporary spaces, or because they require complicated intake records from the subject, records that are monitored by doctor, and the ability to react to incorrect interpretations of the patient or disordered food intakes is lost. A formula to try to overcome this frustration would be through an external support from the pursuit of their achievements or goals. Here, the concept of gamification [2] adapted to health becomes very useful. The system rewards the patients by several factors, among them, for a proper diet tracking, the goal of lose or gain weight, or play sports, or by the amount of exercise performed. The concept of gamification is not new in those aspects related to the health or wellness, existing applications for smartphones that even help you quit smoking [3] or help follow other diets, like the old "diet points" [4], although we discourage these kind of applications without medical supervision.

Several authors [5] investigate on how to automate the registration of food intakes, aided by computer vision technology through their smartphones cameras or any another type sensors. Fundamentally, it attempts to capture the type of food eaten, the portion size, nutritional information or other parameters that help to monitor the diet.

Taking advantage of the current trends of Internet of Things and all the sensors that are appearing on the market, it has been introduced the functionality of automated registration of certain physical exercises through Fitbit [6] product, consisting of a 3D accelerometer which allows us to record the distance covered by the patient daily, weekly or monthly, either walking or running, in addition to recording the consumption of calories in physical exertion.

2 PROJECT APPROACH

At the moment that a doctor is faced with a case of food overweight or deficit problem, the usual prescription is a high-calorie or low-calorie diet that pursues the goals of the patient. The subject will require displaying a record, previously saved by the physician, and also entering the daily food intake, recording some deviations made on the initial diet that will be reported to the doctor. In consequence, the patient will access to the application and will redirect the diet, i.e., he could remotely vary the diet on the application besides the programmed control checks at the clinic, in order to obtain further feedback from him regarding these deviations.

All scheduled and regulated diet is based on levels of activity undertaken by the patient. The application would allow him to record these daily activity levels based on some reports that the user would enter depending on the activity, or though the automation of the activity recorded with a series of sensors. At this early stage of the project, it has been introduced a sensor capable of measuring the distance travelled by the patient daily, and the calories consumed for a physical exercise performed.

Also, normally, this type of intervention does not take into account influential variables in eating behaviour, such as psychological issues such, like stress or anxiety, suffered in their day-to-day life, or constant or variable state of mind against daily aspects as work or personal life. It takes no consideration aspects as hunger perception by the patient, i.e., the subjectivity of the patient associated with the above food intake or after them.

On the other hand, it is known that the hypothalamus is the neurological body capable of transmitting messages of thirst, hunger and satiety to the brain, and many of these eating disorders transmit messages in an erroneous way, that is, the subject may not be able to distinguish, for example, between hunger and thirst, even it would not know when the subject is satiated.

As we introduced above, this application will allow this type of subjective variables for further analysis of the type of food and the frequency of intake, in order to refine the type of diet that will be required by
the patient, or the scheduled psychological treatment required to control for dysfunctional behaviors associated with food and generate tools that allow the user to modify these behaviors.

Another aspect to consider is the motivation of the patient. He will be regularly found under remote monitoring by the doctor through this application, which may strengthen or alert depending on the saved records of the associated variables. In addition, one of the major areas covered by the application is the daily recording of food intake, making the objective of the patient a priority and helping him not to fall into apathy or even abandon the diet. The subject will lead to a successful diet if he is strengthened by external factors, for example, the motivational messages received from people facing like him to a similar diet or through badges, automated or not, because of the achieved milestones that will be previously examined by the doctor.

Next, we will address technical aspects of the application that will allow us to record and act on these organic, metabolic, and psychological aspects.

3 PROJECT STRUCTURE

3.1 Development Environment.

In order to develop this application, five key tools have been used, these are: Java [7], Android [8], MySQL [9], JSON [10] and Fitbit. The project consists of an application developed for devices running with Android OS that is why the coding has been programmed in Java using Eclipse [11].

As for the rest of the tools, MySQL provides the database where all the data will be stored, both user and professional data. JSON however will handle the communication of the data from the database in the server to the application installed in the user’s device.

On the other hand, Fitbit will give the application an extra feature to provide the best usability as possible. The purpose of Fitbit is to measure a series of parameters and automatically store them in the user’s physical profile.

The Android application will be complemented by a web application through which the healthcare-professionals will be able to follow the user’s progression. A map has also been included in the application using Google Maps [12]. This application is fit to be used in both smartphones and tablets running Android OS. In the following picture, Fig. 1, we can see a graph with all of the tools used for the development of this project.

![Fig. 1. Development tools.](image-url)
3.2 System for the interaction with the patient.

3.2.1 Log in.

For the user to be able to use the applications it is necessary to follow a registration process which will compile the first information for the user's profile and will give him a way to identify himself by a user name and a password. This identification will protect the information managed by the application and will ensure that it will only be shown to the rightful user.

It is extremely important to point out that at the time of the registration two groups of users are developed, one for users who will be followed by health-care professionals, which are patients of the clinic who is testing the application, and the independent users of the application.

3.2.2 User options.

Once the log in is done correctly, the user gains access to the main activity panel. In this activity we can access the user options by clicking in the application's logo. A sidebar menu will be shown with 6 options: Home, Profile, Log out, Unsubscribe, About and Information about the clinic. We can see these options (in Spanish) in the screenshot shown in Fig. 2.

![User options](image)

- Home will take the user to the main activity of the application.
- Profile shows all the personal data that the user has indicated in the registration process and will give him the possibility of modifying it.
- Log out will no longer remember our user and password in the device with which the user is accessing the application.
- Unsubscribe makes it possible to the user to erase all his data from the database when he no longer wants to use the application.
- About option gives information about the developers, authors of the images included in the application and privacy policy of the application.
- Information about the clinic provides the contact information of the clinic that is in process of testing the application with real patients.

3.2.3 Home.

It is by the main activity of the application that the user can access the most important features of this application. It contains the tools for monitoring food intake, physical activity, psychological state and weight. We can see an example of the home activity in Fig.3.
3.2.4 Profile.

As it is said before, the user must fill in the form of registration to create a user profile and be able to use the application.

First the form asks the user to introduce some personal information such as name and email address. Then some information about the user himself like date of birth, weight or height. And, finally, some information about the user’s habits such as the frequency of physical activity during the week, the sports that the user practices regularly or the kind of physical effort made by the user during his working hours.

Therefore, the series of data asked in this form are very valuable for the health-care professionals who can make a first evaluation profile of the patient and can lead them to the first treatment or path to follow to make a diagnosis.

All this primary data can be seen and modified by the user at any time to adapt to the changes that his routine can suffer.

3.2.5 Introduction of food intake.

There is a whole process for the purpose of controlling the food intake of the user. It begins with giving the user the opportunity to introduce the food intake divided by meals, this is, separating the aliments that the user has eaten during the five ideal meals in a day; breakfast, first snack, lunch, second snack and dinner.

Once the user has selected the meal in which he wants to introduce the food intake he can do so. It is important to bear in mind that there are two different ways of introducing the food intake. The first one is by recommendation of the health-care professionals, this is, following an agreed diet. The second one is to introduce an aliment ingested outside the agreed diet. This second method is the one used by the independent users due to the fact that they are not followed by health-care professionals.

The process for the introduction of food intake included in a scheduled diet is made as follows.

First, the user is able to see the aliments for the diet programmed for that meal and in that day. This diet has been introduced by the health-care professionals using a web application and it has been stored in the database. After that, the user selects the aliment he has ingested and introduces the amount he has ingested, measured in portions, and confirms. Eventually, once the user has confirmed the food intake, it remains stored in the database.
The second process for the introduction of food intake begins with a list of aliments that comes from the database. The user searches for the aliment he has ingested and selects it. Once the selection is made he introduces the amount eaten using the same process used in the first method.

All this information about food intake can be seen and modified by the user at any time and it is also accessible for the health-care professionals to evaluate the evolution of the patient.

In addition, there is the possibility for the user to introduce the level of satisfaction with the meal indicating the level of satiety he is feeling from one to five.

The introduction of food intake is very important at this point. The aim of this project is to be a first step towards a totally automatic insertion of food intake. Some recent research [5] introduce new aspects about the automation of the insertion of food intake to give nutritional information and, at the same time, not to require too much effort from the user. Something like bar code or QR code reading could be used for this purpose. To be able to give all this information, the Internet of Things (IoT) becomes an excellent tool. Being able to identify the food by itself somehow will provide the information needed.

There is a new sensor in the market that gives an example of what could be done using IoT, this sensor is called “TellSpec” [13] and it could be implemented in the application in the future. It consists of a device that includes a laser spectroscopy to analyse the chemical composition of any food. This device would avoid the manual selection of a food and would provide directly the chemical values in which we are interested in and would make it easier to develop a calorie calculation.

Avoiding to the user the process of introducing the food intake manually will give the application a more usable character.

As far as other applications available in the market, there is a main difference to point out. An average application for personal health control provides a series of data to the user depending on the food intake, the physical activity, etc. This application has been implemented also to give this type of data, however it offers the control and monitoring made by health-professionals which gives the user a more personal approach for a future treatment.

3.2.6 Introduction of symptoms and moods.

There are two options in the main activity of the application for the monitoring of the psychological state of the patient.

As far as mood is concern, the monitoring is divided in morning, evening and night. The user can select from a list, coming from the database, the different moods he has suffered and indicate them divided in this three periods.

On the other hand, concerning symptoms, the user selects, from a list, the symptoms he has suffered during the whole day and they get stored in the database.

The monitoring of the psychological evolution of the patient is crucial since disordered eating behaviours have a psychological origin in them as well as a key aspect to work on during the treatment. That is why, the control and monitoring of the patient is done not just by a nutritionist but also by a psychologist.

3.2.7 Introduction and monitoring of weight.

The weight can be stored in the database once a day and, with the going of the days, the user is able to see his progress thanks to three different graphs. The first graph shows the evolution of the weight of the user in the last seven days, the second in the last month and the third in the last three months. These graphs have been developed using the AndroidPlot API [14] adapting the view to the application together with the parameters. In the following figure (Fig. 4) we can see an example of the evolution of one user’s weight in the last month.
3.2.8 Balance of calories.

The balance of calories options consists of a series of data to inform the user of his ideal state and the state in which he is at the moment. This activity is thought to support the user’s knowledge of his progress and have a clear view of the final objective to achieve. It consists of five simple parameters. In the following paragraphs the calculations made are explained.

The first value that is shown is the ideal Body Mass Index (BMI) [15] of the user. It is taken from a table that gives a range of values for the BMI depending in the age of the person.

The second parameter is the current BMI of the user. This is a calculated taking into account the height and weight of the user.

The third value is the recommended calorie intake that is calculated using the Harris-Benedict equation [16]. It begins with the calculation of the Basal Metabolic Rate (BMR) [17] which is different for men and women and finishes with the calculation of the daily recommended calorie intake taking into account the frequency of physical exercise of the user.

The fourth value is the amount of calories ingested by the user during the selected day, for this calculations it has been enough to calculate the sum of the calories of the aliments and amount of them ingested by the user.

The last parameter is the amount of calories burnt by the user during his exercise. This value comes either from the self-monitoring or from the data recalled by Fitbit.

We can see an example of the activity showing this data in the following screenshot (Fig. 5).
3.3 System for the registration of physical activity.

3.3.1 Self-monitoring of physical activity.

The self-monitoring of physical activity consists of the manual introduction of the exercise made by the user. For this procedure, the user can select one of the sports he practices regularly. This sport has been indicated at the moment of the registration and can be seen and modified through the menu of user options. The user has to select one of these sports and then indicate the time he has spent practising this sport. We can see this process in Fig. 6 and Fig. 7.

![Fig. 6. Regular sports](image1)

![Fig. 7. Introduction of the activity](image2)

Taking into consideration the sport, the time of the exercise and some physical parameters of the user, it is possible to calculate the amount of calories he has burnt during the exercise.

3.3.2 Automation of the process to monitor physical activity: Hardware activity monitoring.

The second system for the registration of physical activity is to use external hardware to measure the exercise of the user. For this matter, IoT is basic. Using IoT’s sensors capabilities it is possible to monitor in real-time the activity of the user during the day and every day [18]. In the article “The Internet of Things and Next-generation Public Health Information Systems. Communications and Network” the authors point out that the IoT sensors for personal health purposes and the data measured should be implemented for base populations, which is, the average user.

In the case of this application, Fitbit has been introduced to fulfil the purpose of measuring the physical activity of the user using sensors. Fitbit consists of a sensor that measures the activity of the user and gives back some parameters. Using the Fitbit API, it has been possible to access these parameters and include them in the application using JSON tool. In this case, it is only interesting to include three parameters: distance, elevation and burnt calories.

There is a specific activity in the application that shows these parameters if they exist. The amount of burnt calories is also included in the total of daily calories burnt by the user.

Apart from Fitbit, there are many other sensors that could be implemented in this case such as Amiigo [19] or Basis [20]. Eventually, this part of the project is meant to achieve the total monitoring of the user, not just the regular activity but also other health parameters including heart rate, body temperature or sleep tracking.

3.4 System for navigation using Google Maps.

Last but not least, there is the navigation using Google Maps.
As we said before, the application is being tested by a clinic and on real patients. The aim of this project is to be introduced in different clinics or health-care systems to help the professionals with the monitoring and control of disordered eating behaviors. Due to this it is convenient to show the contact information of the corresponding clinic to the user.

For this purpose we have an option in the user options menu. Together with the contact information there is a map included. This map is shown using the maps API provided by Google and it points the location of the clinic. Moreover, if the user clicks on top of the map he is automatically driven to the location of the clinic but in the application Google Maps where he can, for example, calculate the rout to get there.

4 CONCLUSIONS

A new solution to monitor and control disordered eating behaviors remotely is presented. This solution was implemented in a mobile phone application because these devices are a valuable and powerful tool to introduce regularly food intake and psychological aspects. Additionally, we have listed technical aspects of the application that will allow endocrines, nutritionists and psychologists to record and act on organic, metabolic, and psychological aspects of the subject to control the diet correctly.

Moreover, this application enables us to the early detection of new disorders of the patient, as psychoaffective, obsessive-compulsive or post-traumatic disorders that were not discovered in a previous exam. On the other hand, disciplines as psychology, medicine and engineering have joined in this app to help patients to change eating behaviours in a more direct and faster way, and a new sensor based on the activity of the user has been incorporated to relieve him of some data introduction and to help professionals with more accurate parameters.

In conclusion, with the emergence of the Internet of Things technology, automatic dietary intake data will be a reality close in time, and the aim of this project is to streamline the appearance of this kind of solutions to lead people towards healthier life.

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