Copyright © THE TURKISH ONLINE JOURNAL OF EDUCATIONAL TECHNOLOGY

All rights reserved. No part of TOJET's articles may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from the publisher.

Published in TURKEY

Contact Address:
Prof. Dr. Aytekin İŞMAN
TOJET, Editor in Chief
Sakarya-Turkey
Message from the Editor-in-Chief

Dear Colleagues,

We are very pleased to publish Special Issue 3 for INTE 2015 conference. This issue covers the papers presented at 6th International New Horizons in Education Conference which was held in Barcelona, Spain. These papers are about different research scopes and approaches of new developments and innovation in education.

Call for Papers

TOJET invites you article contributions. Submitted articles should be about all aspects of educational technology. The articles should be original, unpublished, and not in consideration for publication elsewhere at the time of submission to TOJET. Manuscripts must be submitted in English.

TOJET is guided by its editors, guest editors and advisory boards. If you are interested in contributing to TOJET as an author, guest editor or reviewer, please send your CV to tojet.editor@gmail.com.

September, 2015
Prof. Dr. Aytekin ISMAN
Sakarya University
Editorial Board

Editors
Prof. Dr. Aytekin İŞMAN - Sakarya University, Turkey
Prof. Dr. Jerry WILLIS - ST John Fisher University in Rochester, USA
Prof. Dr. J. Ana Donaldson – AECT, Past President

Associate Editor
Assist.Prof.Dr. Fahme DABAJ - Eastern Mediterranean University, TRNC

Assistant Editor
Assoc.Prof.Dr. Eric Zhi - Feng Liu - National Central University, Taiwan

Editorial Board
Prof.Dr. Ahmet Zeki Saka - Karadeniz Technical University, Turkey
Prof.Dr. Akif Ergin - Başkent University, Turkey
Prof.Dr. Ali Al Mazari - Alfaaisal University, Kingdom of Saudi Arabia
Prof.Dr. Ali Ekrem Özkul - Anadolu University, Turkey
Prof.Dr. Antoinette J. Muntjewerff - University of Amsterdam
Prof.Dr. Arif Altun - Hacettepe University, Turkey
Prof.Dr. Arvind Singhal - University of Texas, USA
Prof.Dr. Asaf Varol - Firat University, Turkey
Prof.Dr. Aytekin İşman - Sakarya University, Turkey
Prof.Dr. Brent G. Wilson - University of Colorado at Denver, USA
Prof.Dr. Buket Akkoyunlu - Hacettepe University, Turkey
Prof.Dr. Chang-Shing Lee - National University of Tainan, Taiwan
Prof.Dr. Charlotte N. (Lani) Gunawardena - University of New Mexico, USA
Prof.Dr. Chi - Jui Lien - National Taipei University of Education, Taiwan
Prof.Dr. Chih - Kai Chang - National University of Taiwan, Taiwan
Prof.Dr. Chin-Min Hsiung - National pingtung university, Taiwan
Prof.Dr. Colin Latchem - Open Learning Consultant, Australia
Prof.Dr. Colleen Sexton - Governor State University, USA
Prof.Dr. Demetrios G. Sampson - University of Piraeus, Greece
Prof.Dr. Dimitri G. Velev - University of National and World Economy, Bulgaria
Prof.Dr. Don M. Flourney - Ohio University, USA
Prof.Dr. Dongsik Kim - Hanyang University, South Korea
Prof.Dr. Eralp Altun - Ege University, Turkey
Prof.Dr. Enver Tahir Riza - Dokuz Eylül University, Turkey
Prof.Dr. Erpel Alp - Gazi University, Turkey
Prof.Dr. Feng-chiao Chung - National pingtung university, Taiwan
Prof.Dr. Ferhan Odabaşı - Anadolu University, Turkey
Prof.Dr. Finland Cheng - National pingtung university, Taiwan
Prof.Dr. Fong Soon Fook - Universiti Sains Malaysia, Malaysia
Prof.Dr. Francine Shuchat Shaw - New York University, USA
Prof.Dr. Gianni Yiardo Vercelli - University of Genova, Italy
Prof.Dr. Gwo - Dong Chen - National Central University Chung - Li, Taiwan
Prof.Dr. Hafize Keser - Ankara University, Turkey
Prof.Dr. Halil İbrahim Yalın - Gazi University, Turkey
Prof.Dr. Heli Ruokamo - University of Lapland, Finland
Prof.Dr. Henry H.H. Chen - National pingtung university, Taiwan
Prof.Dr. Ing. Giovanni Adorni - University of Genova, Italy
Prof.Dr. J. Ana Donaldson - AECT President
Prof.Dr. J. Michael Spector - University of North Texas, USA
Prof.Dr. Jerry Willis - ST John Fisher University in Rochester, USA
Prof.Dr. Jie-Chi Yang - National central university, Taiwan
Prof.Dr. Kinshuk - Athabasca University, Canada
Prof.Dr. Kiyoshi Nakabayashi - Chiba Institute of Technology, Japan
Prof.Dr. Kumiko Aoki - The Open University of Japan, Japan

Copyright © The Turkish Online Journal of Educational Technology
Prof. Dr. Kuo - En Chang - National Taiwan Normal University, Taiwan
Prof. Dr. Kuo - Hung Tseng - Meiho Institute of Technology, Taiwan
Prof. Dr. Kuo - Robert Lai - Yuan - Ze University, Taiwan
Prof. Dr. Liu Meifeng - Beijing Normal University, China
Prof. Dr. Marina Stock Mcisaac - Arizona State University, USA
Prof. Dr. Mehmet Ali Dikermen - Middlesex University, UK
Prof. Dr. Mehmet Çağlar - Near East University, TRNC
Prof. Dr. Mehmet Güröll - Firat University, Turkey
Prof. Dr. Mehmet Kesim - Anadolu University, Turkey
Prof. Dr. Mei-Mei Chang - National pingtung university, Taiwan
Prof. Dr. Melissa Hui-Mei Fan - National central university, Taiwan
Prof. Dr. Min Jou - National Taiwan Normal University, Taiwan
Prof. Dr. Ming - Puu Chen - National Taiwan Normal University, Taiwan
Prof. Dr. Murat Barkan - Yaşar University, Turkey
Prof. Dr. Mustafa Murat Inceoğlu - Ege University, Turkey
Prof. Dr. Nabi Bux Jumani - International Islamic University, Pakistan
Prof. Dr. Paul Gibbs - Middlesex University, UK
Prof. Dr. Paul Gibbs - Middlesex University, UK
Prof. Dr. Petek Aşkar - Hacettepe University, Turkey
Prof. Dr. Petek Aşkar - Hacettepe University, Turkey
Prof. Dr. Ramdane Younsi - Ecole polytechnique de Montreal, Canada
Prof. Dr. Rauf Yıldız - Çanakkale 19 Mart University, Turkey
Prof. Dr. Roger Hartley - University of Leeds, UK
Prof. Dr. Rozhan Hj. Mohammed Idrus - Universiti Sains Malaysia, Malaysia
Prof. Dr. Saedah Siraj - University of Malaya, Malaysia
Prof. Dr. Sello Mokoena - University of South Africa, South Africa
Prof. Dr. Servet Bayram - Yeditepe University, Turkey
Prof. Dr. Shan - Ju Lin - National Taiwan University, Taiwan
Prof. Dr. Sheng Quan Yu - Beijing Normal University, China
Prof. Dr. Shi-Jer Lou - National pingtung university, Taiwan
Prof. Dr. Shu - Sheng Liaw - China Medical University, Taiwan
Prof. Dr. Shu-Hsuan Chang - National Changhua University of Education, Taiwan
Prof. Dr. Stefan Aufenanger - University of Mainz, Germany
Prof. Dr. Stephen Harmon - Georgia State University, USA
Prof. Dr. Stephen J.H. Yang - City University of Hong Kong, Hong Kong
Prof. Dr. Sun Fuwan - China Open University, China
Prof. Dr. Sun Fuwan - China Open University, China
Prof. Dr. Sun Fuwan - China Open University, China
Prof. Dr. Teressa Franklin - Ohio University, USA
Prof. Dr. Teressa Franklin - Ohio University, USA
Prof. Dr. Toshio Okamoto - University of Electro - Communications, Japan
Prof. Dr. Toshio Okamoto - University of Electro - Communications, Japan
Assoc. Prof. Dr. Abdullah Kuzu - Anadolu University, Turkey
Assoc. Prof. Dr. Adile Aşkım Kurt - Anadolu University, Turkey
Assoc. Prof. Dr. Ahmet Esricumalı – Sakarya University
Assoc. Prof. Dr. Aijaz Ahmed Gujjar - Sindh Madressatul Islam University, Pakistan
Assoc. Prof. Dr. Aytaç Göğüş - Sabancı University, Turkey
Assoc. Prof. Dr. Chen - Chung Liu - National Central University, Taiwan
Assoc. Prof. Dr. Cheng - Huang Yen - National Open University, Taiwan
Assoc. Prof. Dr. Cheng - fan Chen - Tamkang University, Taiwan

Copyright © The Turkish Online Journal of Educational Technology
Assoc.Prof.Dr. Ching Hui Alice Chen - Ming Chuan University, Taiwan
Assoc.Prof.Dr. Chiung - sui Chang - Tamkang University, Taiwan
Assoc.Prof.Dr. Danguole Rutkauskiene - Kauno Technology University, Lietvenia
Assoc.Prof.Dr. David Taweiku - Tamkang University, Taiwan
Assoc.Prof.Dr. Eric Meng - National pingtung university, Taiwan
Assoc.Prof.Dr. Eric Zhi Feng Liu - National central university, Taiwan
Assoc.Prof.Dr. Erkan Tekinarslan - Bolu Abant Izzet Baysal University, Turkey
Assoc.Prof.Dr. Ezendu Ariwa - London Metropolitan University, U.K.
Assoc.Prof.Dr. Fahad N. AlFahad - King Saud University
Assoc.Prof.Dr. Fahriye Altinay - Near East University, TRNC
Assoc.Prof.Dr. Gurnam Kaur Sidhu - Universiti Teknologi MARA, Malaysia
Assoc.Prof.Dr. Hao - Chiang Lin - National University of Tainan, Taiwan
Assoc.Prof.Dr. Hasan Çalışkan - Anadolu University, Turkey
Assoc.Prof.Dr. Hasan KARAL - Karadeniz Technical University, Turkey
Assoc.Prof.Dr. Hsin - Chih Lin - National University of Tainan, Taiwan
Assoc.Prof.Dr. Huey - Ching Jih - National Hsinchu University of Education, Taiwan
Assoc.Prof.Dr. Huichen Zhao - School of Education, Henan University, China
Assoc.Prof.Dr. Hüseyin Yaratan - Eastern Mediterranean University, TRNC
Assoc.Prof.Dr. I - Wen Huang - National University of Tainan, Taiwan
Assoc.Prof.Dr. I Tsun Chiang - National Changhua University of Education, Taiwan
Assoc.Prof.Dr. Ian Sanders - University of the Witwatersrand, Johannesburg
Assoc.Prof.Dr. Ismail İpek - Fatih University, Turkey
Assoc.Prof.Dr. Işıl Kabakcı - Anadolu University, Turkey
Assoc.Prof.Dr. Jie - Chi Yang - National Central University, Taiwan
Assoc.Prof.Dr. John I-Tsun Chiang - National Changhua University of Education, Taiwan
Assoc.Prof.Dr. Ju - Ling Shih - National University of Taiwan, Taiwan
Assoc.Prof.Dr. Koong Lin - National University of Tainan, Taiwan
Assoc.Prof.Dr. Kuo - Chang Ting - Ming - HSIN University of Science and Technology, Taiwan
Assoc.Prof.Dr. Kuo - Liang Ou - National Hsinchu University of Education, Taiwan
Assoc.Prof.Dr. Larsya M. Mytsyk - Gogol State University, Ukraine
Assoc.Prof.Dr. Li - An Ho - Tamkang University, Taiwan
Assoc.Prof.Dr. Li Yawan - China Open University, China
Assoc.Prof.Dr. Manoj Kumar Saxena - Central University of Himachal Pradesh, Dharamshala, Kangra, India
Assoc.Prof.Dr. Mike Joy - University of Warwick, UK
Assoc.Prof.Dr. Ming-Chang Jeng - National pingtung university, Taiwan
Assoc.Prof.Dr. Murat Ataizi - Anadolu University, Turkey
Assoc.Prof.Dr. Nergüz Serin - Cyprus International University, TRNC
Assoc.Prof.Dr. Norazah Mohd Sukii - Universiti Malaysia Sabah, Malaysia
Assoc.Prof.Dr. Normaliza Abd Rahim - Universiti Putra Malaysia, Malaysia
Assoc.Prof.Dr. Oğuz Serin - Cyprus International University, TRNC
Assoc.Prof.Dr. Ping - Kuen Chen - National Defense University, Taiwan
Assoc.Prof.Dr. Popat S. Tambade - Prof. Ramkrishna More College, India
Assoc.Prof.Dr. Prakash Khanale - Dnyanopasak College, INDIA
Assoc.Prof.Dr. Pramela Krish - Universiti Kebangsaan Malaysia, Malaysia
Assoc.Prof.Dr. Tzu - Hua Wang - National Hsinchu University of Education, Taiwan
Assoc.Prof.Dr. Vincent Ru-Chu Shih - National Pingtung University of Science and Technology, Taiwan
Assoc.Prof.Dr. Wu - Yuin Hwang - National Central University, Taiwan
Assoc.Prof.Dr. Ya-Ling Wu - National pingtung university, Taiwan
Assoc.Prof.Dr. Yahya O Mohamed Elhadj - AL Imam Muhammad Ibn Saud University, Saudi Arabia
Assoc.Prof.Dr. Yayuz Akbulut - Anadolu University
Assoc.Prof.Dr. Zehra Altunay - Near East University, TRNC
Assoc.Prof.Dr. Zhi - Feng Liu - National Central University, Taiwan

Assist.Prof.Dr. Aaron L. Davenport - Grand View College, USA
Assist.Prof.Dr. Andreja Istenic Starcic - University of Primorska, Slovenija
Assist.Prof.Dr. Anita G. Welch - North Dakota State University, USA
Assist.Prof.Dr. Betül Özkan - University of Arizona, USA
Assist.Prof.Dr. Burçin Kisa Işık - Gaziantep University, Turkey
Assist.Prof.Dr. Chiu - Pin Lin - National Hsinchu University of Education, Taiwan
Assist.Prof.Dr. Chun - Ping Wu - Tamkang University, Taiwan

Copyright © The Turkish Online Journal of Educational Technology
# Table Of Contents

A Comparative Study Of Chinese Traditional Drama And Shakespeare's Works  
Yunsheng ZHAO, Ki-young HONG  

A Computer Game Implementation: Individually Or In A Group  
Serkan SAY, Ersa UCAK, Çigdem Aldan KARADEMİR, Yüksel ÇEKBAŞ  

A Content Analysis Study About Stem Education  
Sevda Göktepe YILDIZ, Ahmet Şükrü ÖZDEMİR  

A Model Suggestion Based On Prospective Teachers’ Opinions On Teacher Training Systems  
Berrin BURGAZ, Hilal BÜYÜKGÖZE  

A Practical Model For Information Security Awareness Training: Secure Information Project  
Faith APAYDIN  

A Review Study On The Evaluation Of Preschool Education’s Reflections On School Maturity  
Ahmet EROL, Mustafa EROL  

A Studio Experience On Parametric Modelling Approaches  
A. Bilgehan İYICAN, A. Emre DİNCER, İbrahim BEKTAŞ  

An Experiment On The Use Of Voronoi Diagram In Architecture: Howl’s Moving Castle  
Aysun AYDIN, Elif AKTAS  

Architecture And Literature: Using Literature And Novelist/Writer As A Concept For Design In The Architectural Design Process  
Aysun AYDIN, Bahar KÜÇÜK  

Assessing Item Validity And Reliability Of Shariah Compliant Gold Investment (Segi) Instrument Using Rasch Measurement Model  
Najahudin LATEH, Ghafarullahuddin DIN, Siti Noorbiah REJAB, Amal Hayati ISHAK  

Basic Preparation For Practical Training In Preaching To The Non-Muslims Among Students Of The Department Of Dakwah And Leadership Studies, Faculty Of Islamic Studies, Ukm  
A’dawiyah ISMAIL, Siti Rugayah TIBEK, Faiza Md. SHAM, Abdul Ghafar DON, Muhamad Faisal ASHAARI  

Body Image And Self-Esteem Through The School Curriculum  
Jana VERNARCOVA  

Brand Building Of A University As An Integral Part Of The Educational Process  
Olga JURASKOVA, Martina JURIKOVA, Josef KOCOUREK  

Can An Exergames Training Program Improve The Jump For Height Skill In Childhood?  
Francesco SGRO’, Mario LIPOMA  

Cognitive Maps Of Individuals With Blindness For Familiar Spaces: Construction Through Tactile Maps And Direct Experience  
Konstantinos PAPADOPOULOS, Marialena BAROUTI  

Concept Teaching To Mentally Retarded Students Through Mobile Devices  
Metin ÇENGEL  

Congruence In Phrasing Between Music And Rhythmic Gymnastics Routine As Perceived By Musicians And Dancers  
Fung Chiat LOO, Fung Ying LOO  

Contributions Of Village Institutes To Social Structure As An Enculturation Instrument  
Gülşen ERDAL  

Copyright © The Turkish Online Journal of Educational Technology
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creating Three-Dimensional Parametric Architecture Popup Books For Architecture Education Zafer SAGDIC, Ali DEGIRMENCİ</td>
<td>119</td>
</tr>
<tr>
<td>Critical Thinking Development In Course Of Teaching Russian In Kazakhstan Leila MIRZOYEVA, Damina SHAIBAKOVA, Sultanat MEIRAMOVA</td>
<td>122</td>
</tr>
<tr>
<td>Deaf Children With Additional Disabilities: Description And Research Zerrin TURAN</td>
<td>127</td>
</tr>
<tr>
<td>Design Method Of Integrated Circuits In Education Tomas KNOT, Karel VLCEK</td>
<td>130</td>
</tr>
<tr>
<td>Determination Of The Knowledge Levels Of Students Studying At The Health Related Departments About Renewable Energy Resources And Protection Of The Environment Sevil ÖZCAN</td>
<td>135</td>
</tr>
<tr>
<td>Determining The Cognitive Structure Of Students In Faculty Of Education Regarding The Concept &quot;Academician&quot; Mustafa KAHYAOĞLU, M Fatih KAYA</td>
<td>143</td>
</tr>
<tr>
<td>Development Of Communication Skills Of Pre-School Pupils With Speech Disabilities Viktor GATIAL, Michal ČERESNÍK</td>
<td>151</td>
</tr>
<tr>
<td>Digital Language Learning Platforms From The Perspectives Of Preparatory Class Teachers And Students Asuman CINCIÒGLU</td>
<td>156</td>
</tr>
<tr>
<td>Discovery Year Options And Students’ Preferences Abby TAN, Masitah SHAHRILL</td>
<td>169</td>
</tr>
<tr>
<td>Distance Education Of Social Work: A Critical Analysis Gizem ÇELİK</td>
<td>174</td>
</tr>
<tr>
<td>Educating Through The Body – Developing The Human Heart Carlos ESCOBAR</td>
<td>179</td>
</tr>
<tr>
<td>Education Of Safety Behavior On Level Crossings From Society-Wide Perspective Jaroslav MASEK, Eva NEDELIAKOVA, Ivan NEDELIAK</td>
<td>188</td>
</tr>
<tr>
<td>Effectiveness Of Islamic Education On Indian Mualaf (Converts) In Selangor, Malaysia JAWIH Dakir, SITI RUGAYAH HJ. Tibeek, FARIZA Md Sham, Mohd Yusof Hj. OTHMAN, Azami ZAHARIN, Muhammad Hilmi JALIL, Shamsul Azhar YAHYA, SITI MAHERAN Ismail @ Ibrahim, Muhammad Ibwan ISMAIL</td>
<td>192</td>
</tr>
<tr>
<td>Effects Of Knowledge On Employment Kenan ÖREN, Hasan YÜKSEL</td>
<td>197</td>
</tr>
<tr>
<td>English Language Needs Of The Library Staff: A Study On University Libraries In Turkey Mehmet Nurettin ALABAY, Ayla BAYRAM</td>
<td>208</td>
</tr>
<tr>
<td>Enhancing Students’ Reading Comprehension Performance Through Think And Search Questions. A Study Of Selected Secondary Schools In Kaduna, Nigeria Hanna YUSUF</td>
<td>214</td>
</tr>
<tr>
<td>Examination Of Helping Behavior Level Of Physical Education And Sports Teacher Candidates Elif KARAGÜN</td>
<td>219</td>
</tr>
<tr>
<td>Function Means Analysis For Ablution Concept Solution Rusmadiah ANWA, Shahriman ZAINAL ABIDIN, Oskar HASDINOR HASSAN</td>
<td>224</td>
</tr>
<tr>
<td>Gender Differentiation In Czech Primary Schools Jitka PETROVA, Stefan CHUDY, Pavel NEUMEISTER</td>
<td>232</td>
</tr>
</tbody>
</table>
Higher Professional Education Funding Systems In Selected European Countries And In The Czech Republic
Martina KUNCIOVA, Petr MULAC

How Sighted And Blind Students Perceive Relational Similarity Between Font-Size And Loudness In Text-To-Speech
Philippos KATSOULIS, Georgios KOURPUPETOGLOU

Ideas Of Electronic Democracy In European Higher Education Area
Ivanicka KOLOMAN, Tomlайн JURAJ

Implementation Of Some Medical Data In Apriori Algorithm
Fawad SADIQMALI, Nilaïfer YURTAY, Nihal Zahal BACINOGLU

Inclusive Approach As A Field For Integrating Foreign Pupil Into Education At Primary School
Dominika Provazková STOLINSKA, Pavlína ČASTKOVA

Inferring Program Delivery Needs Through Student Evaluation Of Faculty-In-Charge: Quality Assurance Of A Program Delivered On Open And Distance Learning In The University Of The Philippines
Imelda Braganza-VALERA

Inquiry Based Science Education Application In Organic Chemistry
Monika PETRILAKOVA, Hana ČTRNACTOVA

Investigation Of The Factors That Affect The Success And Satisfaction Of The Students In Distance Education: Sample Of Sakarya University
Metin ÇENGEL, Orhan KOCAMAN

Investigation Of The Relationship Between Critical Thinking Disposition And Study Approaches Of Teacher Candidates
Gülşah Batdal KARADUMAN, Zeliha Özsoy-GÜNES, Fatma Gülay KIRBASLAR

Language Acts
Daniela DE LEO

Learning Of A Short Form Of Autogenic Training And Its Influence On Psychic And Somatic Feelings And On Coping With Stress In Depressive Inpatients
Helene LYTWYN

Linking Programs Eureka And Erasmus+ In Internationalization Of Education
Jana PARILKOVA, Jaroslav VESELY, Michael NOVAK

Looking For A Specific Measure For Assessing Sources Of Stress Among Teachers: A Proposal For An Italian Context
Gloria GUIDETTI, Sara VIOTTI, Rosa BADAGLIACCA, Daniela CONVERSO

Mechanisms Of Pupil’S Self-Assessment Processes At Primary School In The Context Of A Polytechnical Education
Pavlína ČASTKOVA, Dominika Provazková STOLINSKA

Metacognitive Learning And Students’ Self-Improvement In Higher Education
Karla HRBACKOVA, Jakub HLADIK

Metaphors About Histology Education In Students Of Faculty Of Medicine
Ayşegül Aytekin, Mehmet Hamdi Aytekin, Yusufhan Yazar, Kübra Kavram, Rabia Taşdemir, H ümeysa Selenay Furat RENCBER, Melda Yardımoğlu YILMAZ

Modern Piano Teaching And Practice Methods: Considerations And Comparison With Language Learning
Alberto FIRRINCIELI

Copyright © The Turkish Online Journal of Educational Technology
Needs And Expectations Of Organizations Towards Educational And Communications Technology  
Paitoon SRIFA  
363

On The Problem Of Moral Principle And Moral Value  
Ferhat AGIRMAN, Hasan YÖNDEN  
368

Opinions Of High School Students About Mathematical Proof  
Furkan ÖZDEMIR, Hüsra ÖZDEMIR, Abdullah KAPLAN, Uğur Selamet KIRMACI  
372

Opinions Of Students On Practising Piano  
Mehmet Serkan UMUDAS  
379

Parents’ Views Regarding Foreign Language Teaching In Pre-School Institutions  
Nurgül KOCAMAN, Orhan KOCAMAN  
383

Photography As A Visual Communication Tool  
Ayşe Derya KAHRAMAN  
394

Plantar Pressure Distribution Shift During Adolescence In Soccer Players  
Dominik BOKUVKA, Marta GIMUNOVA, Martin ZVONAR  
397

Problems Of Teaching The Official Language In The Environment Of Minorities  
Zdenka KUMOROVA  
403

Producing First Aid Learning Materials For Elementary Students With Prospective Teachers  
Ganime Aydin-PARIM  
408

Recent Tendencies In Higher Education Research In The Scope Of Functioning Of The Hungarian Higher Education  
Miklós KOCSIS Mjur, Tamás Gergely KUCSERA, Nóémi TÖMÖSVARI Mjur  
419

Research Of The Essence Of The Pupils’ Activities Based On The Emotional Level, Or, What Does The Pupil Experience During The Instruction?  
Jiří DOSTAL  
423

Roles Of Mentoring From Dual Perspectives: A Mutually Beneficial Experience  
Mar Aswandi MAHADI, Masitah SHAHRILL, Nor Azura ABDULLAH  
431

Rural Parents Perceptions About School Meetings  
Andrea Precht GANDARILLAS  
439

Self-Regulation Of Emotions In University Students  
Jan KALENDA  
446

Some Problems Encountered In The Hadith Education At The Faculties Of Divinity In Turkey And Solution Proposals  
Ramazan ÖZMEN  
454

Stress And Burnout In Special Education Teachers  
Rosa MARTINS, Ana ANDRADE, Carlos ALBUQUERQUE, Madalena CUNHA  
458

Sustaining Continuous Professional Development For Quality Teaching And Learning In Higher Education: The Role Of Policy And Policy Implementers  
Annyza Binti TUMAR, Soaib ASIMIRAN, Zaidatal Akmaliah Lope PIHIE, Ismi Arif ISMAIL  
462

Systems Understanding. Where We Are? A Look Into Science Teacher Education  
Duygu SONMEZ  
470

Teacher Views On School Administrators’ Technology Leadership Competencies  
Celal GülSEN  
475

Teaching English Via ‘‘Scenario Building Technique’’: A Case Study In Turkey  
Mehmet TEMUR  
482

Copyright © The Turkish Online Journal of Educational Technology
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Structural Engineering To Architects</td>
<td>487</td>
</tr>
<tr>
<td>Marketa VAVRUSKOVA, Martin POSPISIL</td>
<td></td>
</tr>
<tr>
<td>Textile Designs Embellishments: Rethink Design Models For Fish</td>
<td>491</td>
</tr>
<tr>
<td>Scales Texture Pattern Study</td>
<td></td>
</tr>
<tr>
<td>Rasmawati GHAZALI, Subyali Musa KHAN, Mohanee KHALID, Razaika Omar</td>
<td></td>
</tr>
<tr>
<td>BASAREEE, Rusnadiah ANWAR</td>
<td></td>
</tr>
<tr>
<td>The Ability To Assertion Of Graduates In Regions Of The Czech</td>
<td>500</td>
</tr>
<tr>
<td>Republic</td>
<td></td>
</tr>
<tr>
<td>Milena BOTLIKova, Josef BOTLIK, Veronika ZEBROKOVA</td>
<td></td>
</tr>
<tr>
<td>The Analysis Of Middle School Students’ Attitudes Towards Mathematics</td>
<td>508</td>
</tr>
<tr>
<td>In Terms Of Various Variables</td>
<td></td>
</tr>
<tr>
<td>Sare ŞENGÜL, Yasemin KATRANCI</td>
<td></td>
</tr>
<tr>
<td>The Aspects Of Food In The Rites Of Passage In Turkish Culture</td>
<td>515</td>
</tr>
<tr>
<td>Suhelya SARITAS</td>
<td></td>
</tr>
<tr>
<td>The Attitudes Of (Distance And Formal Education) Students Toward</td>
<td>519</td>
</tr>
<tr>
<td>English Language: A Sample From Bayburt University And Bülent Ecevit</td>
<td></td>
</tr>
<tr>
<td>University</td>
<td></td>
</tr>
<tr>
<td>Tuğba Aydan YILDIRZ</td>
<td></td>
</tr>
<tr>
<td>The Benefits And The Limitations Of Distance Education In Universities</td>
<td>524</td>
</tr>
<tr>
<td>A Pattern Of Turkish Language Course</td>
<td></td>
</tr>
<tr>
<td>Meva APAYDIN</td>
<td></td>
</tr>
<tr>
<td>The Cognitive Structures Of Students In Faculty Of Education Regarding</td>
<td>527</td>
</tr>
<tr>
<td>The Concept Of ‘University’</td>
<td></td>
</tr>
<tr>
<td>M.Fatih KAYA, Mustafa KAHYAOGLU</td>
<td></td>
</tr>
<tr>
<td>The Conventional Arts Education In Turkey, Z Generation,The</td>
<td>535</td>
</tr>
<tr>
<td>Confusions In Perception And Inabilities</td>
<td></td>
</tr>
<tr>
<td>Mustafa SÖZEN</td>
<td></td>
</tr>
<tr>
<td>The Correlation Between Learning Objectives And Student Self-Reported</td>
<td>540</td>
</tr>
<tr>
<td>Motivation In An English For Specific Purposes Project (Degree In</td>
<td></td>
</tr>
<tr>
<td>Tourism)</td>
<td></td>
</tr>
<tr>
<td>Pilar Alberola COLOMAR</td>
<td></td>
</tr>
<tr>
<td>The Correlational Factors In Attitudes Regarding Marital Infidelity</td>
<td>546</td>
</tr>
<tr>
<td>Among Married Woman In Iran</td>
<td></td>
</tr>
<tr>
<td>Nicole JAFARI, Saghar JANAMIAN, Naghmeh TAGHAVI</td>
<td></td>
</tr>
<tr>
<td>The Effect Of Play Supported Program On The School Readiness Of 60-</td>
<td>551</td>
</tr>
<tr>
<td>72 Month-Old Disadvantaged Children</td>
<td></td>
</tr>
<tr>
<td>Özgül POLAT, Aysegül SÖNMEZ</td>
<td></td>
</tr>
<tr>
<td>The Examination Of Mathematical Anxiety Of Vocational School Students</td>
<td>559</td>
</tr>
<tr>
<td>In Terms Of Learning Style And Multiple Intelligence</td>
<td></td>
</tr>
<tr>
<td>İbrahim DORUK, Muhammet DORUK, Gül DORUK, Abdullah KAPLAN, Neslihan</td>
<td></td>
</tr>
<tr>
<td>KAPLAN</td>
<td></td>
</tr>
<tr>
<td>The Expedition Of French King Charlemagne In Spain In 778, Historical</td>
<td>566</td>
</tr>
<tr>
<td>Sources And Anachronic Reflections On The Song Of Roland</td>
<td></td>
</tr>
<tr>
<td>Faat BOYACIOGLU, Mustafa ZENGINBAS</td>
<td></td>
</tr>
<tr>
<td>The Immersion Program:A Case Study Of Internationalization Practice</td>
<td>571</td>
</tr>
<tr>
<td>At Sichuan Univeristy</td>
<td></td>
</tr>
<tr>
<td>Gong TING, Deng HONG, Song-Yan WEN</td>
<td></td>
</tr>
<tr>
<td>The Implementation Of School Bullying Policies From Administrators’</td>
<td>575</td>
</tr>
<tr>
<td>Perspectives</td>
<td></td>
</tr>
<tr>
<td>Ginette ROBERGE, Beaudoin HUGUETTE</td>
<td></td>
</tr>
<tr>
<td>The Importance Of Creating A Student-Centered Classroom Atmosphere</td>
<td>584</td>
</tr>
<tr>
<td>Zeynep Emine ASLAN</td>
<td></td>
</tr>
<tr>
<td>The Improvement Of Teaching And Learning In The Course “Da’wah</td>
<td>593</td>
</tr>
<tr>
<td>Production In Electronic Media” Through Scripts And Hosting</td>
<td></td>
</tr>
<tr>
<td>Muhamad Faisal ASHAARI,Rasmawati Mohd RASIT, Mohd Irdha MOKHTAR,</td>
<td></td>
</tr>
<tr>
<td>Razaleigh Muhamad KAWANGIT, Badlihisham Mohd NASIR</td>
<td></td>
</tr>
</tbody>
</table>
The Portfolio Implementations Of Prospective Pre-School Teachers In Science And Math Education As An Alternative Evaluation Instrument (The Sample Of Sabahattin Zaim University)
Belgin PARLAKYILDIZ

The Relationship Between The Attitude Towards Teaching As A Subject And Technology Perception
Basra TOMBAK, Gülbin ÖZKAN

The Research Of Secondary School Students’ Science Education Self-Efficacy Level
Belemir GÜNGÖR, Çiğdem Çıngil BARIS, Fatma Gülay KIRBASLAR

The Significance Of Motivational Factors As Determinants For The Development Of Girls’ Mathematical Talent
Ralf BENÖLKEN

The Significance Of Teaching In A Post-Instructional Age
Charles BINGHAM

The Universal Design For Learning Good Practices Inventory
Georgios KOUROPETROGLOU, Nikolaos OIKONOMIDIS, Alan BRUCE, Neil O’SULLIVAN, Roelien BARENDSSEN, Katerina RIVIOU, Despina DELIGIORGI

The Use Of Smartphones To Develop The Abstract Reasoning Of Preservice Teachers
David MENDEZ, Beatriz MARTIN

The Views Of Experts In The Field On The Effects Of Multi-Stimulant Turkish Language Learning Environments On Learner’s Language Skill
Eşra KARAKAS

To Describe, To Learn, To Care: A Hermeneutic Approach To The Teaching Topics
Marco PICCINNO

To Pair Or Not To Pair: Investigating The Dynamics Of Teacher-Student Interactions In Different Classroom Settings
Hjh Rafidah Hj OTHMAN, Zuhairina SUHAIMI, Masitah SHAHRILL, Mar Aswandi MAHADI

Towards A Resilient World
Radhika Samar Vakharia ALKA, Indu GARG

Transformation Of Instructional And Learning Paradigm In Digital Age: Social Networking Practices And Academic Expectations Of Higher Education Students In Turkey
İdil SAYIMER, Aslıye YÜKSEL, Barış DEMIR

Using Social Network Analysis For A Comparison Of Informal Learning In Three Asian-American Student Conferences
Roberto PALMIERI, Carlo GIGLIO

Views Of Child Development Program Students About Information And Communication Technologies
Özlem Aslan BAGCI, Hakkı BAGCI

Why And How Should Turkey Build The Nation Brand?
Abdullah ÖZKAN

Writing Anxiety: A Case Study On Efl Students’ Major Reasons Of Writing Apprehension In Writing Classes
Hande ISAOGLU
Needs And Expectations Of Organizations Towards Educational And Communications Technology

Paitoon Srifa
Department of Educational Technology, Faculty of Education
Kasetsart University, Bangkok Thailand
feduptsf@ku.ac.th

ABSTRACT
The Department of Educational Technology, Faculty of Education Kasetsart University Thailand is mandated to regularly update the curriculum to produce graduates with expertise on production, development, and research as well as management of technology and modern communications for instruction. This mandate highlights values and virtues to lead in the development of information technology, media, and communications. This paper primarily aimed to explore the needs and expectations of public and private organizations towards graduates in the fields of technology and communications studies at the Master and Doctorate levels. In general, the samples of this study included executives and supervisors in 50 public and private organizations. Online questionnaires about the appropriate attributes of educational and communication technologists that organizations need were used to collect data. In addition, the expectations of organizations regarding the technology and communications studies curriculum at the Master and Ph.D. levels were determined. Findings revealed that the needs of organizations included concept specialization particularly on the creative use of modern technology, expertise in the field, ability to work, integrated, knowledgeable, had a vision and exemplifies the values of honesty and loyalty to the organizations. Research results would be useful in improving the teaching and learning curriculum of the Department of Education Technology and Communications in accordance with the needs and expectations of different organizations in Thailand.

Keywords: needs, expectations, organizations, educational technology

INTRODUCTION
According to needs should generally be more objective than either wants or demands (Cooper, Rosemarie; Dempsey, Paula R, 2015). These are likely to be at least partially based on reason or logic. These are elements that are instrumental. If people do not have their needs met, they may fail to achieve a goal. Expectations are the standards against which a service provider's performance should be judged. In Thailand, the National Social and Economic Development Plan (The National Social and Economic Development Plan No. 11 C.E. 2012-2016) aims to enhance the economy by developing production and services based on knowledge and creativity. Creating economic security by promoting the use of information and communications technology in professional development includes supporting the development of creative media to create new values. In addition, this aimed to keep pace with the current changes including the development of a workforce with the knowledge and capability to build a creative economy. Education and training have very important roles in acting as the creator of qualified workers to meet the needs of the labor market in the country (Piriya Pholphirul, 2014). Both public and private organizations emphasized the needs and expectations to encourage personnel to work more efficiently and show high productivity. It aimed to give people in Thailand the potential to create and accumulate knowledge. The guidelines in the development and creation of learning resources support the factors contributing to lifelong learning and significant impact on curriculum development in order to have access to all sources of knowledge thoroughly and do not discourage discrimination. In this regard, educational communications and technology should play vital role in improving the learning contexts for the 21st century. The impact of external circumstances to develop proactive programs need to be tailored to the potential and can be adjusted according to changing economic trends. The curriculum is based on standards and quality assurance that sought to be at par with the standards set for universities in Thailand and in other countries. This also aimed to modernize the course content and improve research directions.

STUDY
This study determined the needs and expectations of departments and external organizations in Thailand. The samples of the study included administrators and heads in both public and private sectors, and personnel appointed as commissioner of educational communications and technology. Online questionnaires were developed with a PollRunner application which included three main issues: 1) respondents’ work description in the organization; 2) needs of the organization; and 3) expectations for the technology and communication programs at the Master and Doctorate levels. Initial results showed that 58 percent of respondent belonged to government organizations, 21 percent in private businesses, 15 percent in corporations, 4 percent in state enterprises, and 2 percent as independent entities (Fig.1).
Data obtained from the questionnaire were analyzed and grouped. Organizations’ needs were classified as follows:
1. Expertise in the field
2. Ability to work
3. Integration

Meanwhile, expectations of the organizations with regard to educational communications and technology graduates were categorized into the following:
1. Knowledgeable
2. Have a vision
3. Exemplifies honesty and loyalty

FINDINGS
Research results showed that organizations were interested on having personnel who had a Master and/or a Doctorate degree. There were numerous positions in government organizations that support educational communications and technology. This was followed by those employed in private entities. These organizations preferred many factors in terms of personnel, technology, and communication studies.

Six expertise in field were identified. These were: 1) knowledge on media production; 2) knowledge and skills on graphic, web, and applications design, and in other specialized programs; 3) good communication skills; 4) leadership abilities and professionalism; 5) good understanding of education concepts; and 6) creativity and skills in using up-to-date tools and technologies (Fig. 2). These expertise should be able to apply in the job properly.
Fig. 2 Expertise in the field

Ability to work pertains to the use of up-to-date technology and communications units. These included factors such as fast communication and effective system media development and innovation that apply theories and practices; knowledge and application of educational communications and technology that involve creative ideas; and development time and production efficiency.

Integration dealt with creativity in planning and in operation systems. Fig. 3 shows the different factors that should be considered in integration. Appropriate technology should be applied to benefit the organizations especially with goal-oriented services in harmony with spiritual responsibility. Loyalty to the public is always seeking new knowledge. A better understanding of the work and think like do in new things. Good communication skills refers to the method of disseminating the needed information. Proper application of technology include having initiatives and courage to think about new and bold ideas. Lastly, excellent knowledge and skills in using technology also served as another factor in integration.

Fig. 3 Integration in organizations
Expectations toward graduate programs in educational communications and technology primarily included the knowledge and expertise in handling new technology and applying various methods and tools of communication. These expertise included skills in using the media properly and the knowledge on media production and development; proficiency in using different materials for various applications; well-versed in the discipline and in using applications; innovative in applying principles and theories related to educational communications and technology.

Fig. 4 shows the different factors identified with regard to visions on the effective use of technology. These factors included: 1) Media applications as well awareness to the activities of the organizations; 2) Creative and progressive ideas; 3) Development to keep pace with current changes; 4) Proficient in foreign languages; 5) Disseminate knowledge in the field of technology adoption; 6) Technology development and innovation to further enhance the patent and copyright; and 7) Competency in research, technology, and communication studies.

This study highlighted the importance of the values of honesty and loyalty to the organization. In addition, Ph.D. graduates should have the expertise in proposing new and relevant theories. The educational communications and technology program has also established a link with professionals abroad. This contributed in the enhancement of applications, analytical and innovative educational communications and technology skills, pursuing new knowledge, creativity, establishing principles that guide the actions and activities in order to achieve the objectives, developing modern media, as well as knowledge transfer. The department addresses these issues by enhancing students’ foreign language capabilities, knowledge on technology use, expertise in design, development and innovation as well as an application that can benefit the organizations.

CONCLUSIONS
The Department of Education Communications and Technology has a primary goal of teaching and conducting research to develop students’ work to the serve society. The department regularly improves the curriculum and instruction to address several issues. Some of these issues included the design of technology and system development that have the ability to communicate and pass on knowledge to others; creativity and application of the duties properly; and keeping up with the pace and with the changing needs of the global society. With the expertise and experience in using the learning tools and technologies, problems would be properly addressed. In addition, this study also found out that values such as honesty, discipline, and ability to work with others are very important factors to one’s success. The needs and expectations of organizations with regard to graduates of Master and Doctorate programs on educational communications and technology were as follows: expertise in the field, ability to work, integrated (Melissa E. Pierson, 2014) knowledgeable, had a vision (Peter R. Albion, Peggy A. Ertmer, 2002, Matthew Koehler, Punya Mishra, 2009) and exemplifies the values of honesty and loyalty to the organizations (Maaja Vadi , Krista Jaakson, 2006). Thus, the Department of Educational Technology, Faculty of
Education, Kasetsart University aimed to regularly update its courses in the graduate program. The curriculum to be taught in 2016 is essential in addressing the needs and expectations of various organizations in Thailand.

References
The National Social and Economic Development Plan No. 11 C.E. 2012-2016 Office of the National Economic and Social Development Board Prime Minister's Office.