Center of Excellence for e-Learning
in Medical Education
Virtual School
Tehran University of Medical Sciences

OPATEL

Workshop

On "OPATEL" project
(Online Platform for Academic TEaching and Learning in Iraq and Iran)

Workshop Information Overview

Title:

Instructional design, implementation and evaluation of e-learning system: The experience of Tehran University of Medical Sciences in Iran

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Description:

As mentioned in detailed description of OPATEL[1] the aim of this project is "*establishing and developing a center to train staff and students in Iranian and Iraqi universities by using Online Platform for TEaching and Learning to be as a hub for using best practices in ICT in education, as well as raising competencies of lecturers and teachers by enhancing the learning processes of students*." For this purpose, training workshops are held for participants from above mentioned countries. University of Patras held a five-day workshop in November 2017 to introduce the best practices from the case of Greece. Another week-long workshop would be held by Instituto Superior de Paços de Brandão from Portugal in April 2018. Meanwhile, Tehran University of Medical Sciences (TUMS) from Iran, as one of the OPATEL participants, is the pioneer of virtual learning among Iranian universities. The University applies a user-friendly Learning Management System (LMS) and deploys different strategies including training workshops for faculty members to promote e-learning/blended learning in all educational departments. Virtual School of TUMS, established in 2010, has been delegated as "The Center of Excellence for E-learning in Medical Education" since 2011. Also the school delivers MSc of "e-Learning in Medical Education" and has a great experience in implementing e-learning.

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[1] Detailed description of the project "Online Platform for Academic TEaching and Learning in Iraq and Iran / OPATEL", page 28.

So TUMS will be holding a workshop to share the experience of **instructional design, implementation and evaluation of TUMS' e-learning system** with other universities participating in OPATEL. Presenting this regional experience would help to achieve OPATEL objectives and improve e-learning activities. Also TUMS would benefit from provided feedbacks and benchmarking its activities with European standards.

Length, date and venue

This would be a four-day workshop to be held in December 2-5, 2018 in TUMS' OPATEL Training Center and Virtual School, Tehran, Iran.

Date	Venue	
	9:00 to 12:00	12:00 to 16:00
December 2nd	TUMS International College*	TUMS' Virtual School**
December 3^{ed} and 4th	TUMS' Virtual School	
December 5th	Site visits accompanied by TUMS' team	

* Address: OPATEL Training Center, TUMS International College, No. 3, Corner of First St., Hijab St., Keshavarz Blvd., Tehran.
 ** Address: TUMS' Virtual School, No. 2, Dolatshahi Aly., Naderi St., Keshavarz Blvd. Tehran.

Teaching strategies

This would be a blended workshop including e-learning and face to face components. Two weeks before the workshop, participants would receive their usernames and passwords of TUMS' LMS (http://tumsnavid.vums.ac.ir) . They would have access to workshop study guide and useful presentations. Also there would be practical information to get familiar with Iran and TUMS. During the workshop, related materials and slide presentations would be uploaded in the LMS. In addition, there would be chance of participating in a forum for further discussion.

In face to face sessions, facilitators would deploy different instructional strategies including interactive lecture presentation, question and answer, group discussion and team-work to promote participants' engagement.

Workshop evaluation

Participants would evaluate the workshop by filling a questionnaire in the last day. Besides, in the closing session, there would be a time for providing feedback on the workshop quality.

Topics and Schedule

Day 1	
Introduction to TUMS e-learning activities, challenges and achieved goals **Steps of e-learning system establishment: Identifying challenges and setting goals**	
9:00-9:30	Welcome and registration
9:30-9:40	Welcome speech By Dr. Ramin Kordi, TUMS' Vice Chancellor of International Affairs
9:40-10:20	E-learning as an internationalization strategy in higher education By Dr. Mohammad Hossein Nekoofar
10:20- 10:40	Workshop overview and self-introduction of facilitators and participants
10:40-11:00	Break- open discussion
11:00- 11:40	An overview to e-learning/blended learning implementation in TUMS By Dr. Sina Marashi
11:40-13:00	Break - open discussion
13:00-13:45	E-learning design under the Open Science umbrella By Dr. Victoria Daskalou and Mr. George Lekatsas
13:45-14:45	Participants' teamwork: Challenges of e-learning implementation in universities Facilitated by Dr. Rita Mojtahedzadeh and Dr. Azadeh Shaabani
14:45-16:00	e-Learning system establishment - Steps and important considerations - Context analysis and educational needs assessment - The experience of TUMS within last 10 years By Dr. Rita Mojtahedzadeh

Day 2 **Steps of e-learning system establishment:** 　• **Providing LMS and IT infrastructure** 　• **Learner/faculty support service** 　• **e-Content development**	
9:00-9:15	Summary of the previous day
9:15-10:00	Learning Management System, An experience of developing LMS in Iran 　• introduction to LMS 　• Open source versus commercial LMSs 　• LMS modules 　• Selecting an LMS 　• Introduction to NAVID, TUMS' official LMS By Dr. Aeen Mohammadi
10:00-10:45	How to build effective online learner/faculty support service By Dr. Azadeh Shaabani
10:45-11:15	Break- open discussion
11:15-12:30	Teamwork: Evaluating TUMS' LMS, based on standard checklists Facilitated by Dr. Aeen Mohammadi and Dr Azadeh Shaabani
12:30-13:30	Break - open discussion
13:30-14:10	An introduction to educational e-contents 　• The continuum of e-contents 　• e-Content educational and technical standards By Dr. Mitra Gharib
14:10-16:00	Site visit of Virtual School' acoustic studio: Getting familiar with e-content production Coordinated by Dr. Rita Mojtahedzadeh and Dr. Zohreh Mirmoghtadai
	Software tools for interactive Multimedia development and demonstration of samples By Dr. Zohreh Mirmoghtadai

Day 3 **Steps of e-learning system establishment:** • **Program evaluation and quality assurance of e-learning systems** • **New trends in e-learning**	
9:00-9:15	Summary of the previous days
9:15-10:00	Evaluating blended learning: Bringing the elements together By Dr. Victoria Daskalou and Mr. George Lekatsas
10:00-10:40	An introduction to some e-learning new trends By Dr. Mitra Zolfaghari
10:40-11:10	Break- open discussion
11:10- 11:50	EducationIRAN: An Initiative for the Internationalization of Higher Education in Iran By Dr. Enayat A. Shabani
11:50-12:30	An introduction to "flipped classroom" By Dr. Aeen Mohammadi
12:30-13:30	Break - open discussion
13:30-14:15	Iran's National MOOCs: The experience of developing an LMS-MOOCs platform By Dr. Rita Mojtahedzadeh
14:15-16:00	Closing session • Conclusion summary of the workshop • Open discussion: Sharing ideas and creating ideas for further collaboration • Workshop evaluation by participants

Day 4 **Sit visits**	
9:00-16:00	Site visits to e-learning centers and facilities in: • Tehran University of Medical Sciences • Virtual University of Medical Sciences

	Topics covered in LMS (Multimedia e-contents):
1.	An introduction to TUMS
2.	TUMS' Summer School By Dr. Enayat A. Shabani
3.	New trends of e-Learning: Gamification and game based learning By Dr. Sholeh Bigdeli
4.	New trends of e-Learning: Augmented and virtual reality By Dr. Maryam Tayefeh Mahmoudi
5.	New trends of e-Learning: Learning analytics in e-learning By Dr. Azadeh Shaabani
6.	e-Health and e-learning By Dr. Alireza Atashi

Workshop Facilitators (alphabetically)

Alireza Atashi, Ph.D.

Dr. Alireza Atashi is an assistant professor in Medical Informatics at Tehran University of Medical Sciences and also the founder and director of Medical Informatics department of Motamed Cancer Institute in Tehran. He Holds MSc in Mathematics and PhD in Medical Informatics. His PhD research area was medical registry design with risk score calibration for intensive care and cardiac surgery patients. Alireza has conducted several works in the field of medical data mining, fuzzy analysis and model based clinical decision support especially in the fields of cancer and intensive care. Now, he tries to extend his studies by newer medical services like telemedicine and E-health.

Sholeh Bigdeli, Ph.D.

Dr. Shoaleh Bigdeli received her doctorate in Curriculum Theories and Implementation from Simon Fraser University (SFU), Canada. During 2010 and 2011, she received 7 medical education certificates from London Open University, UK. In 2015 she was invited by Professor David Kaufman to collaborate in a gamification project at SFU, Canada. She is Associate Professor in the department of Medical Education, Faculty of Medicine at Iran University of Medical Sciences. She has supervised more than 30 post-graduate theses in medical education, and has run more than 70 presentations and workshops at universities and conferences. She has published more than 40 articles and co-authored 7 books. She is member of Academy of Medical Sciences, Vice-Director for Research at Center for Educational Research in Medical Sciences (CERMS), member of National Agency for Strategic Research in Medical Education (NASR), international affairs adviser to different medical education institutes, and editorial member of several medical education journals.

Victoria Daskalou, Ph.D.

Dr. Victoria Daskalou holds a bachelor's (1992) and a Ph.D. degree (1998) in Informatics from the Department of Informatics of the Athens University of Economics and Business (AUEB), Greece. She joined the Department of Economics of University of Patras (UPatras) in 2014 as a specialized teaching staff in Internet information systems. Dr. Daskalou has a 25 years' work experience in the field of information and communication technologies. She participated in more than 20 R&D European and national projects and has published 14 papers. She served on several scientific committees related to the digital transformation of the Greek Universities and has gained extended experience in e-learning as the head of e-learning services of Upatras (2001-2007) and AUEB (1995-2001), as a member of the steering committee for Upatras Open Courses project (2010-2014) and as the deputy scientific co-ordinator in the Erasmus+ KA2 project "Open UP Entrepreneurship" building a MOOC in digital entrepreneurship (2015-2017).

Mitra Gharib, Ph.D.

Dr. Mitra Gharib is assistant professor at Virtual School of Tehran University of Medical Sciences. Mitra received her PhD. in Distance Education Planning from PNU, her MSc. in Medical Education from Iran university of Medical Sciences, furthermore another Master's degree in Nursing Education from Shahid Beheshti University of Medical Sciences. She has been working as faculty member since 1993. She has taught a wide range of courses on medical education and distance education at many universities in Iran; and she received teaching award as distinguished faculty of virtual school. She is active in many projects including curriculum development, and continuous professional development workshops. Her research interests include distance education planning in medical fields.

George Lekatsas, MSc

George Lekatsas graduated from the Mathematics Department of the University of Patras (1989) and has a master's degree (MSc) in Information Systems Engineering from the Department of Electrical Engineering at Southbank University in London. Since 1992 he has worked for several companies (Intrasoft, Bank of Central Greece, Intracom and IBM) in areas related to the analysis, design, installation and management of information systems. In 2001 he joined the newly established Network Operation Center (University of Patras) as a senior researcher specializing in electronic communication and information issues, identification services, learning management systems, open distance learning, security and computer systems and now is the head of the Network Operations Center. He is responsible for the Upatras GDPR Compliance Project and has assumed the role of Data Protection Officer.

Sina Marashi, MD, Ph.D.

Dr. Sina Marashi has Ph.D. in Health Services Administration and is the faculty member of e-Health Department at TUMS' Virtual School. He currently serves as Dean of Virtual School and Director of TUMS' Statistics and Information Technology office simultaneously. His academic interests cover the following areas: research methodology and statistics, strategic planning and management, project management, working with academic databases and digital libraries, business administration, team management, business negotiations and contracts, hospital workflow management and academic curriculum development.

Zohreh Mirmoghtadaie, Ph.D.

Dr. Zohrehsadat Mirmoghtadaie graduated from school of medical education in Shahid Beheshti University, Iran. She completed training and practiced as an instructional designer before moving full time to medical education. She teaches ICT in medical education and media design in teaching & learning process. She is Assistant professor of Medical Education in Tehran University of Medical Sciences, Assistant professor of Medical Education in Virtual University of Medical Sciences, Tehran, Iran and member of Editorial Board of Medical Education Development Journal. Moreover, she has been a member of pub long Academy since 2016.Her research is mostly in the field of e-learning, blended learning and production of e-content in the medical field.

Aeen Mohammadi, MD, MPH, Ph.D.

Dr. Aeen Mohammadi has PhD in Medical Education. He is one of the founders of Virtual School of TUMS and currently a faculty member of e-Learning in Medical Education Department in this school, meanwhile he is Vice Chancellor for Infrastructure and Information Technology of Virtual University of Medical Sciences (A new stablished university).

He has performed several developmental and research projects in the field of e-learning and medical education in Iran, some of which are as follows: academic ranking of medical schools, stratification of educational services, metrics systems for faculties members' activities, comprehensive educational award system, and comprehensive system of e-continuous medical education (e-CME), national institutional accreditation system of e-learning centers and so on. Now he, as the manager, is working on development and establishment of Iran's national Massive Open Online Courses (MOOCs) platform and national Learning Management System (LMS). He has published several articles and books in related fields.

Rita Mojtahedzadeh, MD, MPH, Ph.D. (Workshop academic coordinator)

Dr. Rita Mojtahedzadeh has PhD in E-learning Planning. She is one of the founders of Virtual School of TUMS and currently a faculty member of e-Learning in Medical Education Department in this school; meanwhile she is second-affiliated faculty member of Medical Education Department in Virtual University of Medical Sciences. She has been one of principal investigators of several research projects in the field of e-learning and medical education in Iran, some are as follows: academic ranking of medical schools, metrics systems of faculties members' activities, comprehensive educational award system, and comprehensive system of e-continuous medical education (e-CME), national institutional accreditation system of e-learning centers and so on. Now she, as the core responsible body, is working on development and establishment of Iran's national Massive Open Online Courses (MOOCs) platform and national Learning Management System (LMS). She has published several articles and books in related fields.

Prof. Mohammad Hossein Nekoofar, DDS, Ph.D.

Prof. Mohammad Hossein Nekoofar has PhD in physical and chemical characteristics of Mineral Trioxide Aggregate. He is Honorary Lecturer in Endodontics & Dental biomaterial. He is Assistant Professor of Endodontics. He is a member of "Endodontology Research Group", Department of Adult Dental Health, Cardiff University. Supervised more than twenty final projects and dissertations of BDs and DDs students in Iran and the UK. He also serves as the head of TUMS' Directorate of International Relations, Accreditation & Ranking.

Azadeh Shabani, MD, Msc

Dr. Azadeh Shaabani, works as staff in Virtual School of Tehran University of Medical Sciences. Trained as a physician, she has worked as physician/researcher in Immunology, Asthma and Allergy Research Institute of Tehran University of Medical Sciences and has some publication in mentioned field. Since 2012, she's been working in Virtual School of Tehran University of Medical Sciences. Her area of interests includes Clinical Guideline and Clinical Pathway development, instructional Design of LMSs, instructional Design of educational platforms and mobile learning .

Enayat A. Shabani, Ph.D.

Dr. Enayat Shabani has Ph.D. in Applied Linguistics (TEFL) from University of Tehran. He is a faculty member of Tehran University of Medical Sciences. He serves as the responsible body of TUMS' Directorate of International Affairs and Development . He is interested in language teaching, teaching English as a foreign or second language, language testing & assessment and language and internationalization of higher education.

Maryam Tayefeh Mahmoudi, Ph.D.

Dr. Maryam Mahmoudi is a faculty in IRAN Telecommunication Research Center (ITRC), with expertise in: Artificial Intelligence, Human-computer Interaction and Information Science.

Mitra Zolfaghari, Ph.D.

Mitra Zolfaghari is PhD in e-learning in medical education and associated professor of Tehran University of Medical Sciences. She was born in Shiraz (Iran) in 1970, educated in Shiraz University of Medical Science (SUMS) for bachelors and master of Nursing and in PNU University for PhD in e-Learning planning. She is Vice Dean of education in Virtual School at Tehran University of Medical Sciences and a member of Nursing & Midwifery Care Research Center at TUMS, Iran. She published more than 50 articles in education with H-index: 6 in Scopus
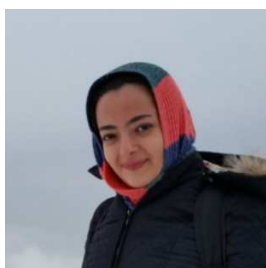
Coordinator Team (alphabetically)

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