iPad Assisted Instruction

Session Title:
iPad Assisted Instruction
Venkat Mugundan
Math Teacher, ATHS Schools Fujairah, UAE.

G-09

Bio
Masters in Math & Education. Completed M. Phil., in Math & Education. Diploma in School Management. 22 years teaching Math for high school students in Asia, North East Africa & Gulf countries. Now involved in research in Educational Technology. Main focus: application and usage of iPad in integrating technology in teaching Math.

Abstract
Questions about effectiveness of technology in classrooms are more difficult to resolve. Reports of success are usually gathered at the first opportunity and don't demonstrate that integrating technology in classrooms is the cause of change. Accordingly, on-going studies are required to demonstrate effectiveness of integrating technology in curriculum delivery. This article narrates author's attempt on technology impact, especially the application of iPad in Math classroom at secondary level.

Creating iPad Apps for STEM Education (Part 1)

Session Title:
Creating iPad Apps for STEM Education (Part 1)
Kamal Abuqaaud
Electrical Applied Tech Lead Teacher, ATHS Schools Dubai, UAE.

G-16

Bio
Master's degree in Electrical Engineering. Extensive industrial experience in the field of Control Systems and Programming. Began his role as an academician in 2004. Has contributed to ATHS in conducting professional development sessions and carrying on his role as a lead teacher. Has many publications in the field of Control Systems and Image Processing.

Abstract
Reinventing the ways we teach to cater to the digital age! As educators, one of the most important traits of our day is the approach we use to present information. This session will help teachers explore and create various interesting iPad applications that will inspire and engage the digital natives in the learning process. Teachers will also have an opportunity to create student activities related to Science, Math and Engineering to motivate the learners.

Challenge-Based Learning (Part 2)

Session Title:
Challenge-Based Learning (Part 2)
Darryl Bedford
Oak Lodge School for Deaf Children. London, UK.

G-12

Bio
Darryl Bedford is an Apple Distinguished Educator working in central London. He works closely with several local mainstream schools, providing advice, support and training focused on future technologies in the classroom. He has extensive knowledge and experience of creative Challenge Based Learning approaches featuring Apple technology. Darryl utilises video, animation, portable devices and Internet technologies to encourage collaborative learning and deep thinking.

Abstract
Preparing students for a rapidly changing society means equipping them with the skills to embrace change and solve complex problems.

Creativity, collaboration, persistence, critical thinking and confidence are lessons that cannot be taught from a textbook. Challenge Based Learning is a student centred, active learning approach that encourages students to use technology they use in their daily lives to solve real world problems. This is a hands-on workshop that will exercise your own problem solving and collaborative skills. Examine the theory behind this modern approach to reveal how it can transform teaching and learning.

Engineering & Engineering Technology-Differences

Session Title:
Engineering & Engineering Technology-Differences
Ghada M. Al Pasha
Director/ Student Recruitment and Admissions, Khalifa University of Science, Technology & Research Abu Dhabi, UAE.

Audit. A

Bio
Ghada A. Mahmoud holds a BSc degree in Electrical Engineering. She has more than twenty four years of experiences in many aspect of Universities Management Administration in the UAE. Currently, she is working as a Director/ Recruitment and Admissions at Khalifa University of Science, Technology and Research, where she is responsible for the overarching recruitment plan.

Abstract
Engineering vs. Engineering Technology?
▪ How are they different?
▪ Curricular Focus
▪ Career Paths

Creating Content with iBooks Author (Part 1)

Session Title:
Creating Content with iBooks Author (Part 1)
Nasir Goda
ICT Lead Teacher & eLearning Coordinator, ATHS Schools Fujairah, UAE.

G-14

Bio
14 years experience teaching ICT. Worked as IT Trainer at ADNOC, then taught ICT at IT Education project in Dubai. Presented IT Tips on Abu Dhabi TV show. Working at ATHS since 2007, currently leading ICT team in Fujairah. Best e-learning teacher award (2013) in ATHS Fujairah campus. Authorized Apple Professional Development Trainer.

Abstract
Adding effective interactivity enriches content of iBooks. This advanced iBooks Author workshop explores creating impressive and interactive lessons using Keynote, HTML, and 3D widgets to fully engage students. It takes iBook content to next level by leveraging existing digital material and presenting it in an interactive way. Topics include: adding sophisticated interactivity to iBook using Keynote, HTML widgets to embed YouTube and Khan Academy videos, tips and tricks for any embeddable Web content like Quizlet, using 3D widgets for 3D content.

Math Model in STEM Education

Session Title:
Math Model in STEM Education
Fadi Said
Mathematics Teacher, ATHS RAK, Ras Al Khaimah, UAE.

G-10

Bio
Mathematics Teacher with 20 years of experience and solid background in fields of education, professional development and curriculum innovation. In addition to teaching mathematics at ATHS RAK, Fadi has been the campus eLearning coordinator since September 2012.

Session Title:
Math Model in STEM Education
Hisham Hanafy
Mathematics Teacher, ATHS DXB, Dubai, UAE.

Bio
Mathematics Teacher with 17 years of experience and solid background in the fields of education, quality assurance, professional development, statistical analysis and curriculum innovation. In addition to being a Math teacher at ATHS, he has been the ATHS Dubai campus eLearning coordinator since September 2012.

Abstract
In this session the facilitators will argue that there are new opportunities to help the less mathematically and scientifically empowered students to visualize what Mathematics is all about.

Practical tasks will be given to attendees to demonstrate the integration of Science, Technology and Engineering into the Mathematics subject. The presenters will shed the light on some of the visual activities, web resources and dynamic software which can be used to bring a new realism into the Maths.

What is Differentiated Instruction (DI) All About?

Session Title:
What is Differentiated Instruction (DI) All About?
Jase Moussa-Inaty
Assistant Professor of Educational Psychology, Zayed University, Abu Dhabi, UAE.

GL-002

Bio
Educational Psychologist and Assistant Professor of Educational Psychology at Zayed University, Abu Dhabi. PhD in Educational Psychology from University of New South Wales, Australia. In addition to teaching duties at ZU, involving undergraduate and graduate students, is actively engaged in conducting research and offers a wide range of workshops and presentations for professional development on various topics.

Abstract
The presentation will focus on bringing meaning to what differentiation involves. The various elements of differentiation will be reviewed. The highlights of the presentation include a deep discussion on how one can apply and implement differentiated processes in various settings-including STEM-given the various challenges. During the presentation participants will be encouraged to think about how they can create their own differentiated lesson plan/strategies. Some recent studies will also be shared.

Featured Session B

Session Title:
IATTEC 20 x 20 (5 Fast-paced Presentations)

Audit. B

Description
The IAT TEC 20x20 session will include 5 speedy presentations of 20 slides, each auto-advancing every 20 seconds. The presentation format depends on using images only on all slides to share a story or an innovative idea. Presenters will discuss different interesting topics. We hope to see as many of the conference delegates as possible and we hope you will enjoy the 20X20 presentations.

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20 IMAGES × 20 SECONDS
pecha-kucha.org

If you can't make it to the session, stay tuned as we will post the presentations on the conference website after the event. see more information