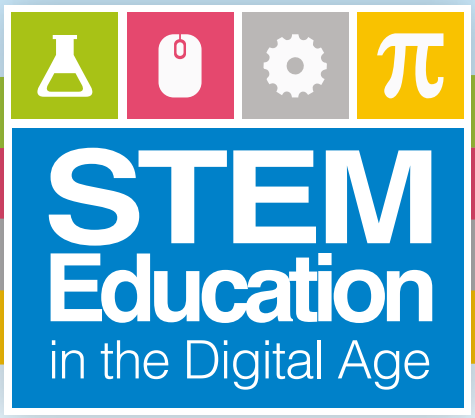
معهد التكنولوجيا التطبيقية
INSTITUTE OF APPLIED TECHNOLOGY

ثانوية التكنولوجيا التطبيقية
Applied Technology High School

IAT TECHNOLOGICAL EDUCATION CONFERENCE 2014



IAT TEC 2014

TUESDAY APRIL 1st

Fatima College of Health Sciences, Mafraq, Abu Dhabi, UAE

IAT Technological Education Conference
IAT TEC 2014

PARTNER:
KHALIFA UNIVERSITY

معهد التكنولوجيا التطبيقية
INSTITUTE OF APPLIED TECHNOLOGY

IAT TECHNOLOGICAL EDUCATION CONFERENCE 2014

STEM Education in the Digital Age

TUESDAY APRIL 1st

FATIMA COLLEGE OF HEALTH SCIENCES, ABU DHABI, UAE

On-site registration starts at 08:00 am | Opening Ceremony starts at 09:00 am

Tel: +971 2 695 1127 | iat.tec@iat.ac.ae | www.iat.ac.ae/iattec

facebook.com/iat.tec | twitter.com/IATTEConf

Keynote | Panel Discussion | Workshop | Showcase

ORGANIZER

معهد التكنولوجيا التطبيقية
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PARTNERS

KHALIFA UNIVERSITY | كلية فاطمة للعلوم الصحية FATIMA COLLEGE OF HEALTH SCIENCES | ثانوية التكنولوجيا التطبيقية Applied Technology High School | بوليتكنك POLYTECHNIC | ACTVET

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Legends

Symbols

	Registration		Keynote
	Workshop		Panel Discussion
	iPresent		Sessions
	Science		Technology
	Engineering		Mathematics
	Exhibition Booth		Venue Location
	Location		Coffee Area
	Rest Room		Lunch Area

Colour Codes

	Registration Desk		Keynote
	Workshops		Panel Discussion
	iPresent		Sessions
	Science		Technology
	Engineering		Mathematics
	Exhibition Booth		Auditorium Mother of the Nation Hall
	Auditorium A		Auditorium B
	Rest Rooms		Lunch Area

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Conference Committees

A task force responsible for organizing and launching the IAT TEC 2014 is formed from:

1. Organizing Committee:

Chair General
Dr. Abdullatif Al Shamsi Managing Director, IAT

IT Coordinator
Mr. Ahmed Mansour Senior Coordinator Technical Support, IAT

Chair, Proposals
Dr. Nesrin Hamad Senior Manager, ATHS Directorate

Showcase Coordinator
Dr. Naser Al Ashab Acting Instructional Developer, CDU, ATHS Directorate

Exhibition & Logistics Coordinator
Mrs. Marion Smith Manager Learning Resources, ATHS Directorate

Facilities Coordinator
Mr. Yousuf Mohammed Awad Al Naimi Facilities Coordinator, FCHS

Website & Multimedia Coordinator
Mr. Shadi Ayoub Manager Instructional Tech. ATHS Directorate

Media Coordinator
Mr. Adil Arafa Press Coordinator, IAT

Planning & Program Coordinator
Mrs. Rehab Rajab Supervisor Instructional Tech. ATHS Directorate

2. Proposals Committees

Proposals Review:

Mr. Shadi Ayoub	Mr. Wassim Al Asmar
Mrs. Kavitha Somaraj	Mr. Ahmed Hazem
Mrs. Rehab Rajab	Mrs. Sura'a Sabri
Mr. Kareem Ragab	Dr. Naser Al Ashab

Campus Coordinators ATHS:

IAT-ATHS, AUH - Female Mrs. Dinna Sarris	**IAT-ATHS, DXB** Mrs. Mireille Tannous
IAT-ATHS, AUH - Male Mr. Sebastian Price	**IAT-ATHS, RAK** Mr. Robert Alexander Roy
IAT-ATHS, AIN - Female Mrs. Atheer Jadallah	**IAT-ATHS, FUJ** Mr. Mohammed Oudat
IAT-ATHS, AIN - Male Mr. Kareem Saudi	**IAT-ATHS, AJM** Mrs. Banan Maarouf

3. Services Committee:

Photography:
Mr. Rana Khan

IT Support:
Mr. Muhammed Kunhi

Graphic Design:
Mr. Syed Noman

Logistics:
Mr. Sabry Rihan

Webmaster:
Mr. Hisham Hammash

Procurement:
Mr. Mark Anthony

Webmaster:
Mr. Elmer Timan

Multimedia & Animation:
Mr. Fasih Ahsan

STEM Education in the Digital Age

Chair, General
Dr. Abdullatif Al Shamsi
Managing Director, IAT.

معهد التكنولوجيا التطبيقية
INSTITUTE OF APPLIED TECHNOLOGY

STEM Education in the Digital Age

Ever since its inception, the Institute of Applied Technology (IAT) has focused on producing graduates who are qualified for future science-related jobs and who are highly skilled in computer science. This vision stemmed from clear awareness of the importance of Science, Mathematics, Engineering and Technology to prepare a generation of youth who are able to compete in the global economy.

The STEM Education in the Digital Age Symposium aims at providing educators with a unique professional development experience to explore the principles of STEM, (an approach to teaching and learning that integrates the content and skills of science, technology, engineering, and mathematics), as well as technology integration.

Keynote Panel Discussion Workshop Showcase

Throughout the event educators will be involved in activities to discover and share best practices related to STEM education and educational technology. Participants will leave the Symposium better equipped to meet the learning requirements of the digital natives who are expected to apply rigorous science, technology, engineering, and mathematics by engaging in inquiry and logical reasoning, as well as gaining skills in computing and computational algorithmic thinking.

IAT is pleased to invite you to share your ideas on STEM Education in the Digital Age. It will showcase and explore means and methods of STEM integration into a technology-enhanced learning environment.

TUESDAY APRIL 1st 2014

08:00 - 09:00	**Registration** Registration Desk	
09:00 - 09:30	**Opening Ceremony** Mother of the Nation Hall (Auditorium)	Dr. Abdullatif Al Shamsi **Managing Director** Institute of Applied Technology
09:30 - 10:15	**Keynote** **The Role and Future of STEM Education in the UAE** Mother of the Nation Hall (Auditorium)	Dr. Natasha Ridge **Executive Director** Sheikh Saud bin Saqr Al Qasimi Foundation for Policy Research
10:15 - 10:45	**Coffee Break**	**Innovative Lessons Showcase** Exhibition Area
10:45 - 11:25	**Panel Discussion** Mother of the Nation Hall (Auditorium)	**Encouraging Emiratis to Study Science** Dr. Natasha Ridge; Dr. Christina Gitsaki; Dr. Jamal Hajsaleh

Program at a Glance

11:30 - 12:15 — Session A

Unleashing Creativity with iOS	G-09	Challenge Based Learning and STEM (Part 1)	G-12
iOS for Arabic Language Learning	G-14	STEM and Language Learning-Connections	GL-002
Repurposing Games Programming for STEM	G-10	The New Face of IAT PLATO	Audit. A
STEM Inquiry in Action	G16	Can Mobile Technology Assist Learning? A Case Study.	Audit. B

12:15 - 13:30 — Lunch Break

Lunch Area

13:30 - 14:15 — Session B

iPad Assisted Instruction	G-09	Challenge Based Learning and STEM (Part 2)	G-12
Creating Content with iBooks Author (Part 1)	G-14	What is Differentiated Instruction (DI) All About?	GL-002
Creating iPad Apps for STEM Education (Part 1)	G-16	Engineering & Engineering Technology-Differences	Audit. A
Math Model in STEM Education	G-10	IATTEC 20x20 Powered by PechaKucha	Audit. B

14:15 - 14:30 — Coffee Break

Innovative Lessons Showcase

Exhibition Area

14:30 - 15:15 — Session C

iOS for English Language Learning	G-09	Challenge Based Learning and STEM (Part 3)	G-12
Creating Content with iBooks Author (Part 2)	G-14	Incorporating Technology Into Literacy	GL-002
Creating iPad Apps for STEM Education (Part 2)	G-16	Arabic Language & Tech. - Terminology (in Arabic)	Audit. A
Adapting STEM through Interdisciplinary Activities	G-10	Teaching Physics in a Studio Format	Audit. B

15:15 - 15:45 — Closing

Mother of the Nation Hall (Auditorium)

The Role and Future of STEM Education in the UAE

Dr. Natasha Ridge
Executive Director
Sheikh Saud bin Saqr Al Qasimi Foundation for Policy Research.

Mother of the Nation Hall (Auditorium) 09:30 – 10:15

Dr. Natasha Ridge is currently the Executive Director of the Sheikh Saud bin Saqr Al Qasimi Foundation for Policy Research. Prior to this, she was the Acting Director of Research at the Dubai School of Government. Dr. Natasha has a number of publications including a forthcoming book entitled Education and the Reverse Gender Divide in the Gulf States: Embracing the Global, Ignoring the Local. Her additional publications include chapters in the 2012 World Education Yearbook and in publications of the Emirates Centre for Strategic Studies and UNESCO as well as working papers for the Dubai School of Government and the Al Qasimi Foundation for Policy Research.

Dr. Natasha holds a Doctorate of Education in International Education Policy from Columbia University and a Masters in International and Community Development from Deakin University, Australia. She is also a founding board member and former president of the Gulf Comparative Education Society. Her latest research focuses on the educational aspirations and choices of young men in the Gulf Cooperation Council, Arab migrant teachers, and access and equity in private education in the GCC.

Abstract

The UAE today, and for the future, has a great need for citizens with qualifications in Science, Technology, Engineering and Math (STEM). However interest in these subjects has not been growing and students often mistakenly believe that they are 'too hard'. A key challenge for educators in the UAE therefore is how can we engage students in these subjects and then retain them in these areas at the tertiary level. In addition the new emphasis placed on technology as a solution for the lack of engagement of students forms another challenge for educators. What role can and should technology play in engaging students and improving learning outcomes and what do educators need in order to be able to use technology effectively in the classroom? This talk will look at the current state of STEM education in the UAE, the role of technology in engaging students and what educators and policy makers really need to think about when addressing issues relating to achievement and motivation.

Panel Discussion

Mother of the Nation Hall (Auditorium)

10:45
11:25

Encouraging Emiratis to Study Science

Panellist
Dr. Natasha Ridge
Executive Director
Sheikh Saud bin Saqr Al Qasimi Foundation for Policy Research.

Panellist
Dr. Christina Gitsaki
Assoc. Dean of Foundations
Academic Central Services,
Higher Colleges of Technology

Panellist
Dr. Jamal Hajsaleh
Associate Professor
Petroleum Institute

Moderator
Tarek Ibrahim
Exam Development Supervisor
Institute of Applied Technology

Nicholas Yates
Zayed University,
Abu Dhabi, UAE.

Unleashing Creativity with iOS

Teachers of Math and Science always ask for demonstrating the process in which they arrived at the solution. From a didactic approach to inquiry-based model of learning, it is the same catch cry heard. What if the challenge was set to students to not only show the answer and the process of getting there, but to be creative in their demonstration of this knowledge and skill? Simple creative stages in a work flow of generating, capturing, collecting, and realizing would encourage and motivate them. This workshop will explore and apply various apps to the work flow.

Enas Tarawneh
ICT Teacher,
ATHS AUH-Girls.
Abu Dhabi, UAE.

Heba Daraghmeh
ICT Teacher,
ATHS AJM-Girls.
Ajman, UAE.

Repurposing Games Programming for STEM

The workshop will present GameSalad as an innovative 2D programming environment that makes it easy to create an animation for telling a story or playing an interactive educational game. Attendees will create a simple animated 2D game to serve the purpose of delivering a concept within a STEM context. Consequently, attendees will have a scope of how GameSalad can serve Science, Technology, Engineering and Math.

Rani Saleh
Arabic Teacher,
ATHS DXB,
Dubai, UAE

Hazem Al Asmar
Arabic Teacher,
ATHS DXB,
Dubai, UAE.

iOS for Arabic Language Learning

Learning Arabic in a 1:1 iPad classroom provides many opportunities for students to be creative, productive, collaborative and independent in their learning. In this workshop, we will share with you ways to encourage students to learn Arabic with their iPad using authentic learning activities that we have been designing for the past two years. Don't forget to bring your iPad along!

Dr. Naser Al-Ashab
Acting Physics Supervisor
& Instructional Developer,
ATHS Schools, Dubai, UAE.

STEM Inquiry in Action

The STEM education offers the right solution for an inquiry based learning for an effective Science classroom. Here Science, Technology, Engineering and Math are integrated. This workshop encourages Grade 9 Physics teachers to conduct a variety of STEM activities. They will run some inquiry based learning activities that will allow them to construct models and conclude the factors affecting the applications and the purpose of the models. The 'How', 'Where', 'When' and 'Why' in conducting these activities will be provided by the trainer. Handouts will be shared with the trainees in order to give them some reference websites that support the STEM concept in the Physics classroom.

Darryl Bedford
Oak Lodge School for Deaf Children.
London, UK.

Challenge-Based Learning (Part 1)

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 form 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.

Phoebe H. Ayoub
English Supervisor &
Instructional Developer,
ATHS Schools,
Abu Dhabi, UAE.

Mireille Makhoul
Lead Teacher,
English Department,
ATHS AUH Girls,
Abu Dhabi, UAE.

Developing English Language Skills for STEM

It is clear that a new movement for ESL in the Middle East and around the world is needed. The STEM approach requires learners to design experiments, collect, analyze and interpret data. However, reviewing and presenting findings is limited to learners with a certain language proficiency level. Therefore, rethinking how English Language is designed and delivered is essential thus bringing in a practical connection between STEM and language learning. Instead of approaching ESL as an individual subject or even in a cross-curricular setting, English is incorporated within all subjects thus enabling students to present their academic findings in the target language - English.

Shadi Ayoub
Manager, Instructional Technology,
ATHS Directorate of Schools,
Abu Dhabi, UAE.

The New Face of IAT PLATO

Since its implementation, IAT PLATO has received recognition as an effective e-learning portal to deliver curriculum and assess students learning. At the same time, a lot of the feedback received from the ATHS schools have identified some areas that can be improved. Moreover, upgrading the core engine of the system, which is based on Moodle 1.9, into the current Moodle +2.6.1 has opened the door for more capabilities and better user experience. In this session, some aspects of the new version of IAT PLATO (V 2.0) will be demonstrated. This includes not only improvements in the performance, the interface, and the user experience; but also additions of new functions that would further promote collaboration, teacher autonomy, and integration with the iPad.

Featured Session A

Dr. Christina Gitsaki
Assoc. Dean of Foundations,
Academic Central Services, HCT, UAE.

Can Mobile Technology Assist Learning? A Case Study.

This presentation will outline an applied research study that examined the impact of the use of iPads by post-secondary Emirati students for learning English. The longitudinal study was conducted in a higher education institution by Dr. Christina Gitsaki and Dr. Matthew Robby, UNESCO Chair in Applied Research in Education, Higher Colleges of Technology, and looked into a number of different aspects of the learning process including student motivation and engagement in classroom activities, the use of the iPad for out-of-class activities, the frequency of iPad use and its impact on student academic success.

Venkat Mugundan
Math Teacher,
ATHS Schools,
Fujairah, UAE.

iPad Assisted Instruction

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.

Kamal Abuqaaud
Electrical Applied Technology,
Lead Teacher, ATHS Schools,
Dubai, UAE.

Creating iPad Apps for STEM Education (Part 1)

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.

Nasir Goda
ICT Lead Teacher &
eLearning Coordinator,
ATHS Schools,
Fujairah, UAE.

Creating Content with iBooks Author (Part 1)

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.

Fadi Said
Mathematics Teacher,
ATHS School,
Ras Al Khaimah, UAE.

Hisham Hanafy
Mathematics Teacher,
ATHS School,
Dubai, UAE.

Math Model in STEM Education

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.

Darryl Bedford
Oak Lodge School for Deaf Children.
London, UK.

Challenge-Based Learning (Part 2)

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.

Jase Moussa-Inaty
Assistant Professor of Educational Psychology,
Zayed University, Abu Dhabi, UAE.

What is Differentiated Instruction (DI) All About?

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.

Ghada M. Al Pasha
Director/ Student Recruitment
and Admissions, KUSTAR,
Abu Dhabi, UAE.

Engineering & Engineering Technology-Differences

Engineering vs. Engineering Technology?

- How are they different?
- Curricular Focus
- Career Paths

Featured Session B

MODERATOR
Christopher Vazquez
Christopher Vazquez,
Science Teacher, ATHS Dubai.

IATTEC 20 x 20

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.

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

More information next page.

IAT TEC 20x20

POWERED BY PECHAKUCHA

5 Fast-paced

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

MODERATOR
Christopher Vazquez
Christopher Vazquez, Science Teacher,
ATHS Dubai.

Christopher is a Chemistry and Biology teacher who graduated from Lancaster University in 2009 with a 1st Class Degree in Biochemistry. After teacher training, he taught in a British High School for four years - previous to his recent move to the UAE. He has a passion for teaching science as a 'Philosophy', not just a group of subjects.

Cevdet Harun Boke
Maths Teacher,
ATHS AUH Boys,
Abu Dhabi, UAE

Promoting Student Learning through Videos

Students learn best when they adjust how they learn, what they learn, where they learn and how fast they learn. Videos may help students study the content anywhere on their own pacing, follow how they progress, and revise when needed. Fast pacers can finish the core material and go for extra, while slow pacers have their time to master the content, which means efficient use of time and differentiated learning. Videos act like a second teacher in the class, hence teachers can spend more individual time with each student for feedback and monitor student progress.

Rehab Rajab
Supervisor Instructional Technology,
Instructional Technology Department,
ATHS Directorate, IAT Dubai, UAE.

Blending Realia and Technology in ESL

Being an EFL teacher, it has always been great to be able to bring a wide variety of real-life objects to the classroom; not only because realia increases students' engagement, but also because it exposes the learners to authentic texts as opposed to textbooks material. The presenter will share examples of activities that integrate realia in 1:1 iPad classrooms. The goal is to engage students in meaningful learning experiences, to involve them in real-life tasks as well as maintain a good balance between technology-assisted and face-to-face interaction.

Presentations

Audit. B

13:30
14:15

Join us in Audit. B at 13:30 for inspirational talks in 20x20 style. Presenters will spend 6 minutes each sharing their ideas in a fast-paced presentation using 20 images.

Ghania Al Banna
Science Teacher, ATHS AUH Girls,
Abu Dhabi, UAE

Effective Digital Assessment of Student Work

Effective Digital Students' Work supports instantaneous student assessment, instantaneous recognition of misconceptions, and immediate re-teaching. This approach sends an automatic email to each student containing the questions asked, student's answers, answer key, student's grade and any of the teacher's remark. As a feedback to the teacher, a detailed excel sheet can be created showing the class average per assessment, the class average per question, the student mark per assessment, and the student mark per question, and highlighting the underachieved students.

Dr. Raed Abdalla
Science Lead Teacher,
ATHS - Dubai, UAE

Hanadi Fatayerji
Science Teacher,
ATHS - Dubai, UAE

Motivating Students through Awards & Competitions

One method to increase students' motivation is by engaging them in competitions and educational awards both on the regional level and the international one. ATHS- Dubai has taken the initiative of engaging the learners in competitions where they participated in more than 30 competitions and educational awards recently, in some of which they earned premier ranks. In this 20x20 presentation an experience in motivating learners' and improving performance and achievement through engagement in competitions and awards will be shared.

Yasmeen Shakoor
English Teacher,
ATHS RAK, UAE.

Anjali Rajan
English Teacher,
ATHS RAK, UAE.

Beyond Substitution

Students these days are digitally native and autonomous learners, who are creative, and direct their learning into areas they chose to. As teachers we worked our teaching methods around this paradigm shift by introducing content and learning activities involving interactivity and integrating technology. This presentation tells the story of the transformation of learning activities we designed for students by integrating technology and pedagogy effectively using the SAMR principle.

Rehab Rajab
Supervisor Instructional Technology,
Institute of Applied Technology, UAE.

iOS for English Language Learning & Literacy

When iPad devices become part of the language classroom, they transform everything. As a teacher trainer, I have redesigned some of my lessons as examples to meet the needs of the learners in this new learning environment, which encouraged me to research methods to boost creativity and productivity in the 1:1 iPad ESL classroom. In this workshop, we will explore ways to encourage independent learning, improve productivity and design learning experiences where students enjoy their English language learning with iPad.

Darryl Bedford
Oak Lodge School for Deaf Children.
London, UK.

Challenge-Based Learning (Part 3)

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.

Kamal Abuqaaud
Electrical Applied Technology,
Lead Teacher, ATHS Schools,
Dubai, UAE.

Creating iPad Apps for STEM Education (Part 2)

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.

Nasir Goda
ICT Lead Teacher &
eLearning Coordinator,
ATHS Schools,
Fujairah, UAE.

Creating Content with iBooks Author (Part 2)

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.

Dr. Toufiq Omar
Arabic Language &
Islamic Studies Instructional Designer,
ATHS Abu Dhabi, UAE.

Arabic Language & Technology - Terminology
(in Arabic)

This session will include a short workshop about the latest teaching methods and techniques in teaching and learning the Arabic language. The workshop will be followed by a discussion on the role of Arabic language in Science and Technology as well as the possibilities for the Arabic terminology in research.

Akshay Maliwal
Head - Strategy,
Playware Studios Asia,
Singapore.

Incorporating Technology Into Literacy

Game-based learning, scenario-based learning, virtual worlds for training, just-in-time-training, can be powerful tools for skills development and training. In this session, you will hear about these approaches, and also learn to design your own games that you can incorporate in your teaching and learning, using the 3DHive platform (patented, award winning learning tool).

Ahmed Hazem
Developer - Chemistry,
ATHS Schools,
Abu Dhabi, UAE.

Sura Sabri
Developer - Biology,
ATHS Schools,
Al Ain, UAE.

Adapting STEM Through Interdisciplinary Activities

The workshop will introduce the following topics:

1. The rationale behind interdisciplinary- based STEM approach
2. Prerequisite for teachers to implement STEM based learning
3. Dimensions of interdisciplinary approach
4. Assign tasks for teachers

Attendees will be involved in 3-2 activities covering topics 3 and 4.

At the end of this workshop teachers are expected to acquire a clear vision regarding STEM, and utilizing this approach into their subject specific instructions and activities.

Featured Session C

Dr. Jamal Hajsaleh
Associate Professor,
Petroleum Institute,
Abu Dhabi, UAE.

Teaching Physics in a Studio Format

The Physics Department of the Petroleum Institute in Abu Dhabi is adopting the studio approach in the delivery of the Physics courses. The approach is a student centred model which utilizes the inquiry based learning. The implementation of this approach is abandoning the traditional lecture and lab and replacing it with activities that go along the learning goals. The curriculum which is defined by the course description is maintained without alteration. The approach has maximized the student engagement. The courses use the team teaching and hence give more attention to individual students with emphasis on the student learning. The adoption has gone into integration and gradual transition. The new model has also a change in the sitting of the classrooms, equipment, technology and schedule. The studio approach has been successful in terms of students' satisfaction, retaining and success rate.

Innovative

Mireille Tannous
Science Teacher,
ATHS DXB, Dubai, UAE.

The Power of Interactive Books

Rapid advancement of technology has revolutionized the creation and consumption of content in the learning environment. Use of iBooks is a notable technology that has widely embraced most contemporary learning environment to encourage learners to be fully participating in the learning process. The use of iBooks facilitates learner's engagement through its rich interactive contents. The aim of this showcase is to focus on the interactive tools that help create an iBook and how they function.

Anas Ahmed
ICT Teacher,
ATHS Fujairah, UAE.

STEM Integration through ICT Project

The main focus of my 'showcase' would be to relay the concept of executing a project by involving all of the STEM subjects. In order to do this, I would be showcasing a simple project and showing how easy it is to integrate the STEM subject within it. The project involves the right kind of tools that would allow students to learn and experiments all parts of the STEM concepts indirectly.

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Lessons Showcase

during Coffee Break

Derul Alim
Science Teacher, ATHS Boys Campus,
Abu Dhabi, UAE

Videogame Quiz

Rather than giving a paper-based quiz to your class, why not add your questions into this easy-to-use online software. The software will automatically turn your questions into an interactive arcade game. This activity is quick to plan and design and provides maximum fun for students who will be motivated to compete for the highest score on the scoreboard.

Masoud Akhtar
Biology & Chemistry Teacher ATHS,
Abu Dhabi Boys Campus, UAE.

Online Assessment Tools for AP Biology

Various online tools available for the teaching AP Biology will be showcased. This will include assessment tools designed to complement the current Pearson text book that is in use at the ATHS schools. These tools can double as revision aids and test practice for independent study. Online programs for making flash-cards will be demonstrated and a host of customizable interactive games for use in the classroom will be distributed to visitors. Selected iPad Apps intended as virtual laboratories will also be introduced.

With over **36,000** web listings, the site attracts Africa region. It can be viewed online in almost 30 accessible on iPhone, Blackberry & other handheld visitors can find the latest industry news, upcoming with others in the community forum.

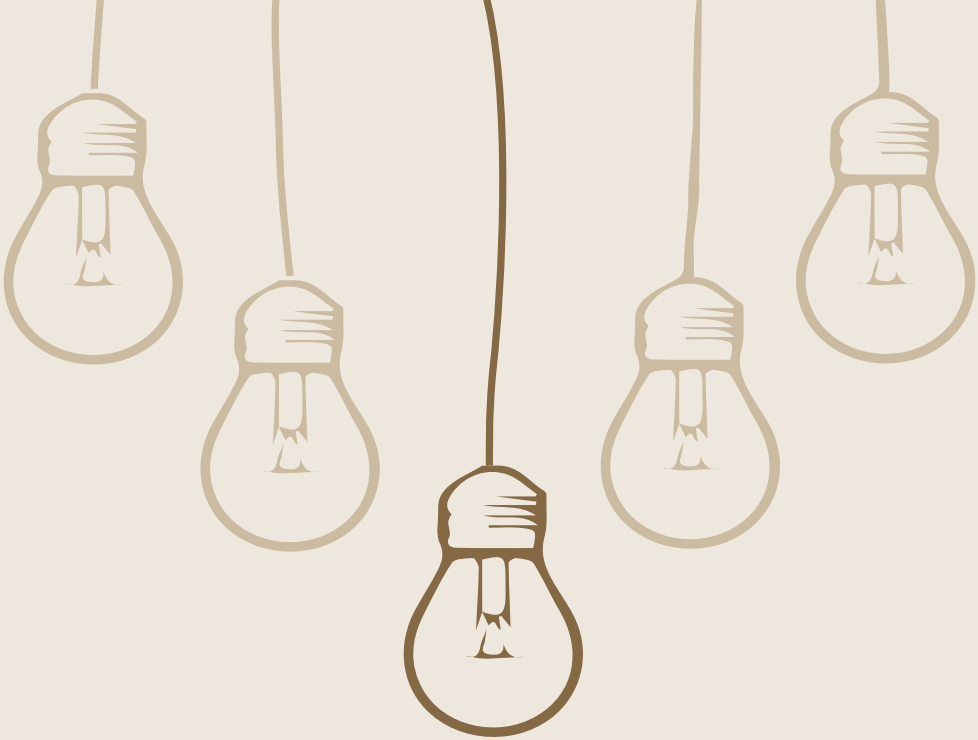
Gabriel Keresztes
English Teacher, ATHS Fujairah, UAE

Incorporating Technology into Literacy

A Novel in an Hour (Tribes Strategies USA) is a creative and energizing way of simplifying any course material and allowing students to comprehend a lot in a little. You will be able to see a showcase of this technique and how it can be mixed with technology (using the iPad, iMovie etc.) and applied to any subject. To simplify a text (can be used for a science course).

IATTEC 20x20

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



5 Fast-paced Presentations

Join us in Auditorium-B at 13:30 for inspirational talks in 20x20 style. Presenters will spend 6 minutes each sharing their ideas in a fast-paced presentation using 20 images.

20 IMAGES × 20 SECONDS

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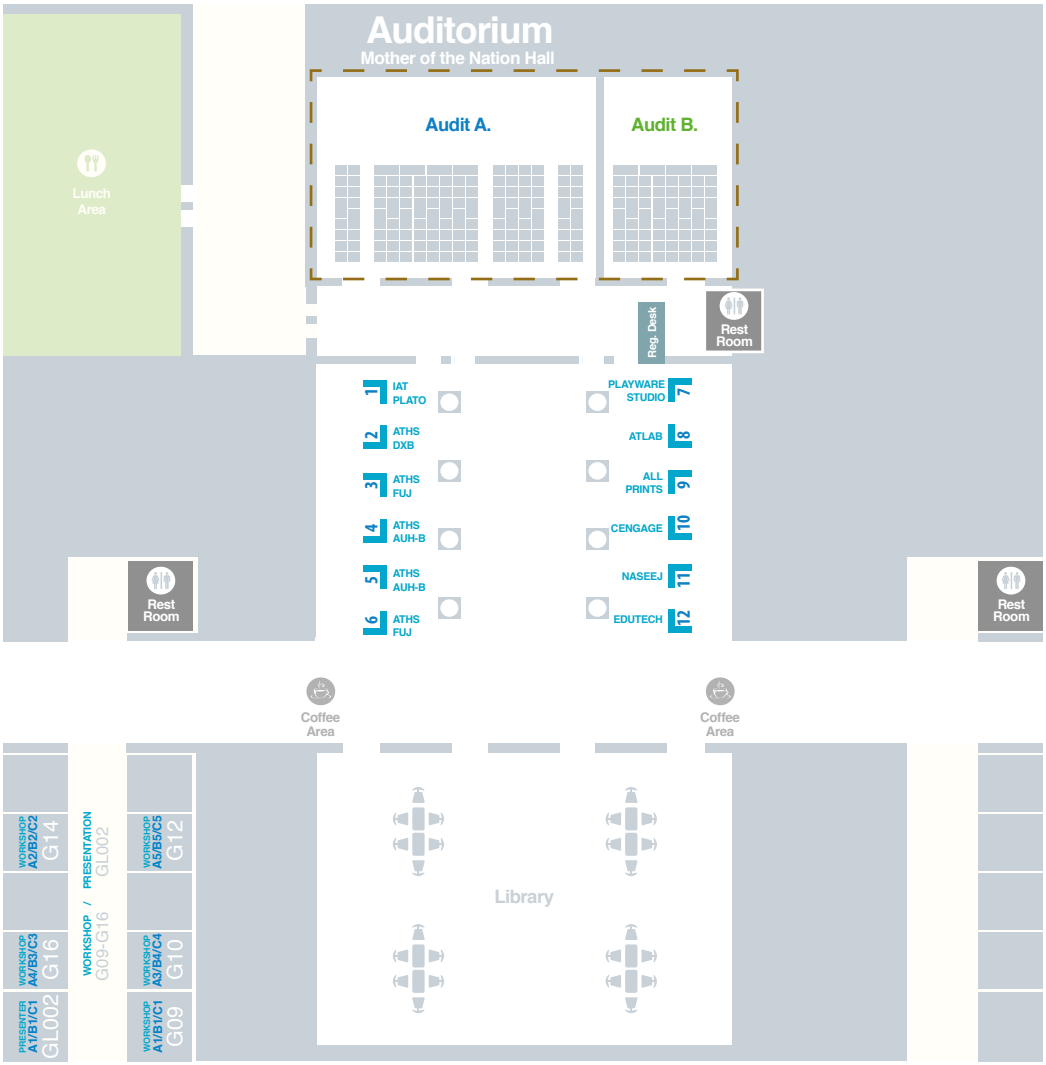
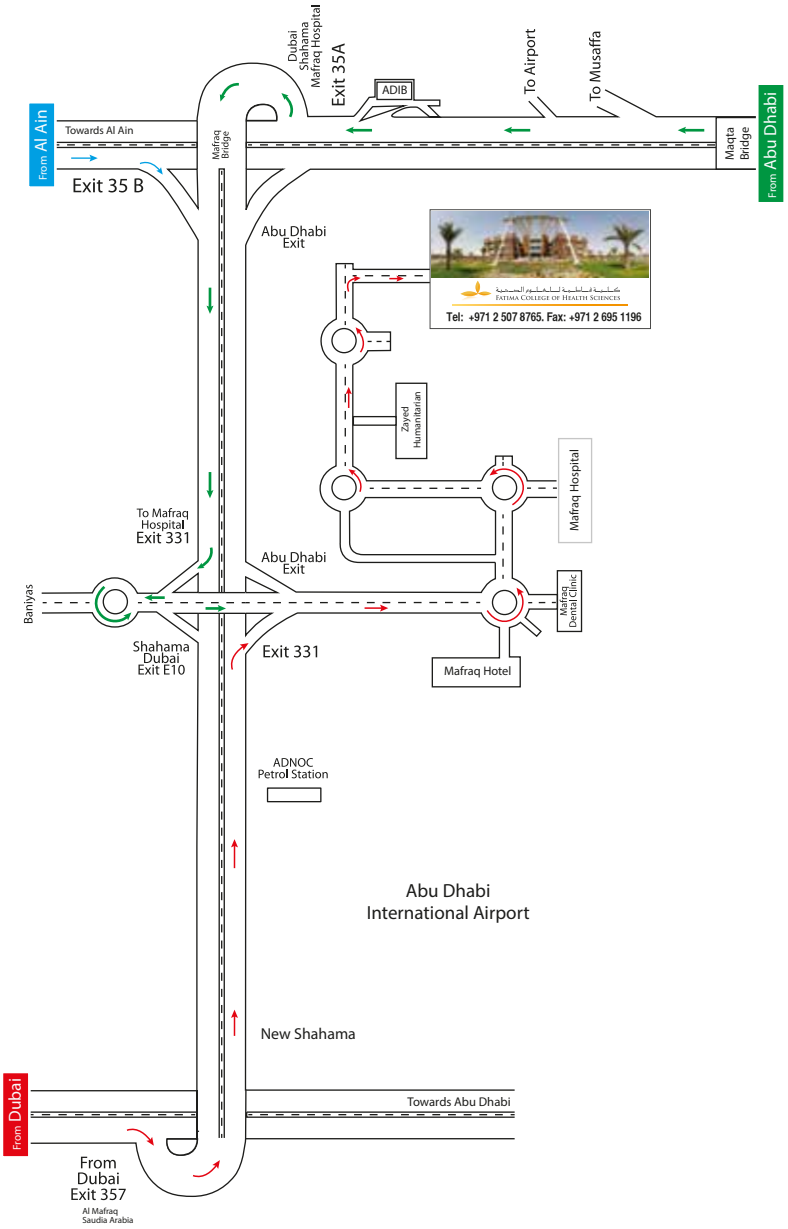
Exhibition Booth Plan



Venue Location Map



IAT PLATO

IAT PORTAL for LEARNING APPLIED TECHNOLOGY ONLINE

Innovate, Aspire, Transform

IAT Portal for learning Applied Technology Online has been developed by Instructional Development Department at IAT, to empower students, engage parents and transform teaching and learning.

IAT PLATO provides an engaging e-learning environment allowing the student to take a dynamic role in the learning process.

APPLIED TECHNOLOGY One-To-One E-Learning Solution

IAT PLATO offers parents the opportunity to contribute to their child's progress, nurturing a mind-set for self-directed and life-long learning.

IAT PLATO provides a platform whereby teachers can innovate their teaching methods and improve students' skills by having access to a student centred curriculum, interactive resources and engaging media-rich content.

IAT PLATO provides the perfect platform for an e-learning solution connecting IAT's community of active learners.

Visit

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معهد التكنولوجيا التطبيقية
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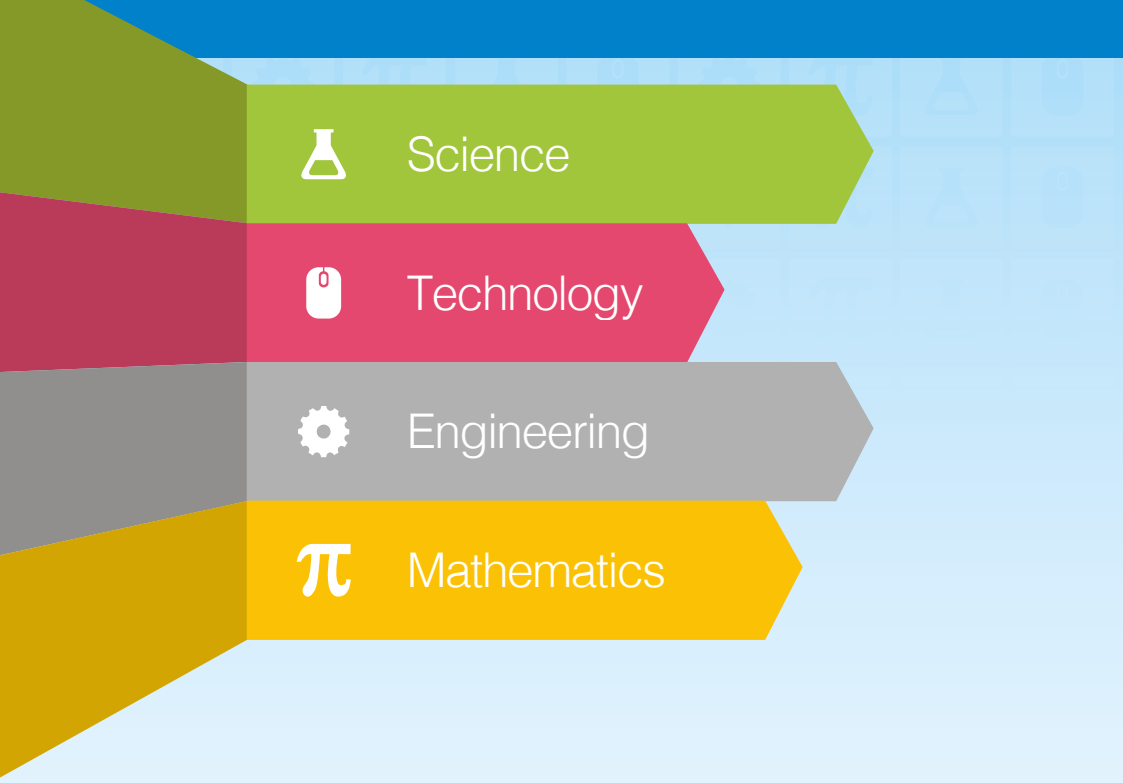

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