



In Partnership with



2^o Training 1^o Summit

**“Enhancing Education, Training
and Lifelong Learning”**

March 26-27, 2019



**His Royal Highness
Prince Khalifa Bin Salman Al Khalifa**

The Prime Minister of the
Kingdom of Bahrain



**His Majesty
King Hamad Bin Isa Al Khalifa**

The King of the Kingdom of Bahrain



**His Royal Highness
Prince Salman Bin Hamad Al Khalifa**

The Crown Prince,
Deputy Supreme Commander
And First Deputy Prime Minister
Of the Kingdom of Bahrain

**Message from His Excellency Dr. Majed Bin Ali Al Noaimi,
Minister of Education**



Bahrainis, the employees of choice

The hosting of the first training summit entitled “Enhancing Education, Training and Lifelong Learning” at Bahrain Training Institute (BTI) gathers specialists from BTI, the University of Bahrain, represented by Bahrain Teachers College, and Bahrain Polytechnic. It is an important step on the road to building unifying bridges under shared visions and values linked to the objectives of the national project for the development of education and training, which was mainly based on linking three human development pillars, namely: education, training and the labor market.

This forum is an excellent opportunity for all participants to share and exchange education and training experiences and to discuss challenges associated with the labor market, in accordance with the strategic objective to make Bahrainis the employees of choice.

We, at the Ministry of Education, are keen to review programs and curricula of the technical and vocational education in BTI and the private sector to guarantee the provision of skills and knowledge qualifying students for professional and personal life and to strengthen the partnership with the labor market through the Apprenticeship Program.

As part of the national strategy for the development of higher education, we are also intensifying the development of various academic programs linked to the needs of the labor market, taking into account aspects of innovation, creativity and individual initiative as basic pillars for development; hence, this training summit is important.

My sincere thanks and appreciation to all participants and organizers of the summit. I wish you all success.

Dr. Majed Bin Ali Al Noaimi
Minister of Education

Message from Dr. Samah Al Ajjawi, BTI Director General



Delighted we are at Bahrain Training Institute to host the first Training Summit titled “Enhancing Education, Training and Lifelong Learning.” The forum is organized in collaboration with two esteemed higher education institutions - the University of Bahrain represented by Bahrain Teachers College and Bahrain Polytechnic. We consider this a golden opportunity for the faculty members, trainers and lecturers to share their best practices, experiences and challenges.

The forum coincides with the centennial celebration of formal education in the Kingdom of Bahrain – an important celebration which reminds us all of how education impacted the development of the Kingdom of Bahrain and how it became the catalyst for the country's economic growth.

Our forum is organized around three major themes: Technology for Training and Education; Teaching and Learning; and Student Support. These three elements are vital for teaching and training success. Such forums and professional development opportunities play essential roles in helping participants reflect, discuss and share ideas on best practices in teaching and training.

This forum aims to “strengthen linkages among the participating institutions, build network among teachers/trainers/instructors, and discuss issues relevant to training and education” so as to foster innovative ways to improve teaching/training and provide best possible services for learners.

We hope that this forum will provide you with a platform to meet and interact with diverse educators and will motivate you to create more positive change in your approach to teaching and training. I am very grateful to the forum's organizing committee members, as well as all individuals who worked hard to ensure a valuable and enjoyable experience for us all.

I would like also to extend my sincere gratitude to His Excellency Dr. Majed Bin Ali Al Noaimi, Minister of Education, for sponsoring this event and for his continuous and full support to all professional development activities held at BTI.

Much of our appreciation also is extended to Dr. Muhammed Mubarak Jumma, the Undersecretary for Resources and Services, for his continuous assistance, support, and guidance.

Dr. Samah Al Ajjawi
BTI Director General

Keynote Speaker



Dr. Jeff Zabudsky was appointed as CEO of Bahrain Polytechnic in March 2017. He has fulfilled multiple roles over a thirty-year career in higher education including his previous service as President and Vice-chancellor at Sheridan College in Toronto, Canada and President and CEO of Red River College in Winnipeg, Canada.

Dr. Zabudsky has also served in governance capacity on different boards including the chairmanship of a chamber of commerce, chairmanship of a national association and membership in a hospital board and many other community-based organizations. He has also served on numerous national advisory bodies and has been a speaker at over one hundred academic conferences and industry forums in many different countries.

Dr. Zabudsky holds a Ph.D. in Educational Policy Studies from the University of Alberta, a Master of Distance Education from Athabasca University and a Bachelor of Applied Arts in Broadcast Journalism from Ryerson University.

Keynote Speaker



Dr. Dunya Ahmed is an assistant professor and lecturer in the Department of Social Sciences at the University of Bahrain and a Strategic Planning and Development Adviser in Supreme Council for Women.

She completed her Ph.D. in social work at the University of Warwick, specializing in gender, disability, and Islam. She is the first person in Bahrain to hold a Ph.D. in social work and concentrates mainly on gender equality and the rights of people with disabilities. She is also an active member of several NGOs and the editorial board of several international scientific journals. She is a co-founder of Inspiration Economy concept and institutions around the world.

Keynote Speaker



Dr. Farzana Al-Maraghi is the Director of Scientific Research at the Secretariat-General of the Higher Education Council, Ministry of Education, Kingdom of Bahrain. Prior to that, she was the Head of Academic Accreditation at the SGHEC. She has academic experience for around ten years, teaching Mathematics, Research Methodology, and Applied Statistics.

Dr. Al-Maraghi earned her Ph.D. in Statistics and Operations Research in 2008 from Brunel University. Her research field was Queueing systems. She holds a Master in Education, specifically, Mathematics Curricula Development, and a Bachelor of Science in Mathematics, both with excellence and honor classes, from the University of Bahrain. In 2012, she accomplished a professional certificate in leadership from Said Business School, University of Oxford, UK. She was IBM-certified specialist for using the Statistical Product and Service Solutions Software.

Dr. Al-Maraghi published articles in the area of statistics in some international refereed journals, and served as a referee as well. She has conducted many nationwide researches mostly in the education sector. She also was accredited by the British Psychological Society, talentQ and HayGroup as ability and personality tests user.

Programme

Day 1: 26 March 2019

8:30-9:00	Registration
9:00-9:40	Opening Programme National Anthem Recitation of the Holy Quran BTI Audio-Visual Presentation
	Message His Excellency Dr. Majed Bin Ali Al Noaimi Minister of Education
	Message Dr. Samah Al Ajjawi BTI Director General
9:40-11:00	Plenary Session
	Keynote Speaker <i>Lifelong Learning in the Digital Knowledge Economy</i> Dr. Jeff Zabudsky CEO, Bahrain Polytechnic
	Keynote Speaker المرأة في التعليم الفني والمهني وعلوم المستقبل Dr. Dunya Ahmed Strategic Planning and Development Adviser, Supreme Council for Women
	Keynote Speaker <i>How to Succeed in a Changing Job Market?</i> Dr. Farzana Al-Maraghi Director, Scientific Research Secretariat-General, Higher Education Council
	Awarding of Plaque of Appreciation to Keynote Speakers/Panel of Evaluators
11:00-11:15	Coffee Break
11:15-12:00	Parallel Presentations
12:00-12:30	Prayer Time
12:30-2:00	Parallel Presentations
2:00-2:30	Awarding of Certificates to Presenters
2:30-3:30	Lunch

Day 2: 27 March 2019

8:30-9:00	Registration
9:00-10:30	Parallel Presentations
10:30-10:45	Coffee Break
10:45-12:15	Parallel Presentations
12:15-12:45	Prayer Time
12:45-1:30	Parallel Presentations
1:30-1:40	Awarding of Certificates to Presenters
1:40-2:00	Closing Ceremonies
2:00-3:00	Lunch

Title	<i>Use of Machine Learning to Improve Quality Education</i>
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Presenter



Subbiah Stalin
Instructor
Bahrain Training Institute

Schedule 26 March 2019, 11:15-12:00, Room 240

Abstract

Education needs to move from traditional teaching practices to the use of modern utility such as machine learning. Machine learning supports teachers in improving their lessons by identifying areas where clusters of students struggle. The technology can identify weaknesses and suggests ways for improvement. It groups students and teachers according to their needs and availability for a more efficient learning that yields better results.

Title	<i>Problem-Based Learning (PBL) in Manufacturing Courses</i>
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Presenter



Dr. Nikolaos Vasilikos
Tutor
Bahrain Polytechnic

Schedule 26 March 2019, 11:15-12:00, Room 241

Abstract

Using student-centered approaches in teaching courses on manufacturing processes is challenging for teachers as various parameters have to be addressed and several rules have to be followed. A case study of a PBL approach for manufacturing processes is presented to clarify the steps/procedures, the organization of the course, the rules, the H&S parameters as well as the outcome and the possible student and teacher satisfaction. Various ways of implementation and improvement are also presented to support this approach and the teachers that wish to follow it.

Title	<i>Teaching Innovation</i>
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Presenter



Dr. Christina Georgantopoulou
Head of School, Engineering
Bahrain Polytechnic

Schedule 26 March 2019, 11:15-12:00, Room 238

Abstract

"Can we teach innovation?" The research community expresses different opinions about this topic. Seemingly, we are in the exploitation stage, finding ways to teach innovation, if it can be taught, in order to proceed to the next technological evolution of our civilization and increase its already rapid progress with everybody's contribution. A new approach of applied research is generated, and it seems that it will change the "old-fashioned" way of research development, promoting new ideas and providing everyone the opportunity to contribute to the world's progress towards a better quality of life for societies.

Title *Bahrain Polytechnic Responding to Bahrain 2030 Economic Vision through an Institution-Industry Collaboration Model*

Presenter



Eman Haider
Curriculum Development Advisor
Bahrain Polytechnic

Schedule 26 March 2019, 11:15-12:00, Room 239

Abstract

In its mission of preparing work-ready graduates, Bahrain Polytechnic begins engagement with the development of the curriculum through the Industry Liaison team which is responsible for bridging the gap between Bahrain Polytechnic, industry and business community by encouraging staff and student interaction with these entities. This engagement continues during student Industry Projects and Internships allowing the Polytechnic to receive recommendations and suggestions to enhance existing programmes. Later, alumni progression in the workplace is determined by seeking employer feedback.

Title *An Empirical Case Study on Student Engagement in MOOC Videos (Learning Analytics)*

Presenter



Noora Yaseen AlBalooshi
Assistant Tutor
Bahrain Polytechnic

Schedule 26 March 2019, 12:30-1:15, Room 240

Abstract

Videos play a vital role in online courses; literature suggests that watching videos is a core activity where learners spend majority of their time. This research aims to bridge the gap in literature and study video interaction data. It highlights key good practices and gives an overview of how learning analytics on video data can help improve course design. It also accommodates expert opinion on statistical findings and synthesizes it against literature. Finally, as a guideline for producing effective videos to maximize student engagement, it highlights areas of further research.

Title *The Digital Classroom: Ultimate Technology Tools for Formative Assessments and Collaborative Learning Practices*

Presenters



Dr. Harris Saseendran
Instructor
Bahrain Training Institute



Shafeeqa Salman
Instructor
Bahrain Training Institute



Dr. Koteswara Rao
Instructor
Bahrain Training Institute

Schedule 26 March 2019, 12:30-1:15, Room 241

Abstract

Online technologies support trainers in conducting formative activities during classes to boost and measure trainee understanding of the topics while providing a fun and enhanced collaborative learning environment. Series of educational exercises and games that can be utilized include 'Space Race,' 'Exit Ticket,' 'Kahoot,' and 'Google tools.'

Title *Application of Robotics in Classrooms*

Presenter



Salih Kadavath
Instructor
Bahrain Training Institute

Schedule 26 March 2019, 12:30-1:15, Room 238

Abstract

Robotics is considered as the pinnacle of technology. Robots can be effectively used in common subjects like Mathematics, Physics, and English. It can be more technically used for engineering subjects like Control Systems, Measurements and Software Programming. The use of robots further captures students' attention and improves their engagement in the teaching-learning process.

Title *Feedback – A Double-Edged Sword*

Presenter



Madhavi Tiwary
Lecturer
University of Bahrain

Schedule 26 March 2019, 12:30-1:15, Room 239

Abstract

The presentation aims to reinforce the immense effect of feedback on enhancing student performance. This will be achieved by clarifying the concept and types of feedback, differentiating between feedback and praise, highlighting the role of language and body language in the process, explaining the principles of feedback and recommending a more constructive add-on to feedback – feedforward.

Title *Use of Google Forms and Proteus in Training and Education*

Presenter



Mohammed Mushtaque
Senior Instructor
Bahrain Training Institute

Schedule 26 March 2019, 1:15-2:00, Room 240

Abstract

The teaching-learning process is enhanced by a plethora of software and hardware tools. The presentation focuses on two ICT tools: Google Forms and Proteus software. Google Forms facilitates the conduct of a variety of activities and assessments while Proteus offers circuit simulation with an array of components, libraries, analyses and options.

Title *The Role of Market-Responsive TVET in Enhancing Practical Skills*

Presenter



Ahmed Al Saffar
Instructor
Bahrain Training Institute

Schedule 26 March 2019, 1:15-2:00, Room 238

Abstract

Technical and vocational education and training (TVET) currently faces major challenges shaped by market demands and other factors. Nevertheless, TVET must evolve in response to these local and global challenges. The enhancement of students' skills remains important to fill in the gap in the market in collaboration with private industries and other educational institutions.

Title *Knowledge-based Economy Concept and the Responses of Public Higher Education Institutions (HEIs) in the Kingdom of Bahrain*

Presenter



Ema Janahi
Director, Academic Development
Bahrain Polytechnic

Schedule 26 March 2019, 1:15-2:00, Room 241

Abstract

The concept of knowledge-based economy applied to support economic development requires a highly responsive educational system to cater for the technological advancement and skills development of the workforce. Consequently, higher education systems were reformed, existing policies were modified and new policies were developed for HEIs to adapt to their new role in producing graduates that meet the requirements of 21st century knowledge-based economy.

Title *Adopting the Lyford Model in Classroom Management*

Presenter



Mohamed Elkanzi
Instructor
Bahrain Training Institute

Schedule 26 March 2019, 1:15-2:00, Room 239

Abstract

The aim of this presentation is to discuss the components, underlying principles and best practices of the Lyford Model. The Lyford Model is based on six theories: the ecological system, humanist, psychoeducational, sociocultural, knowledge acquisition and cognitive behavior. The model is based on a number of theories, models and frameworks. Hence, it doesn't limit a teacher to a predefined boundary.

Title *Gamify Learning Using Technology*

Presenter



Dr. Senthil Kumar Saravanan
Instructor
Bahrain Training Institute

Schedule 27 March 2019, 9:00-9:45, Room 240

Abstract

Gamification in education promotes the use of game-like features in the teaching-learning experience. This session focuses on the comparative aspects of Kahoot and Quizizz which help improve learner engagement and which act as formative assessment tools.

Title *Using SharePoint in Planning Teaching and Learning*

Presenters



Hawra Nooh
Teaching and Learning Specialist
Bahrain Polytechnic



Eman AlShamlawi
Teaching and Learning Specialist
Bahrain Polytechnic

Schedule 27 March 2019, 9:00-9:45, Room 241

Abstract

The presentation focuses on the significance of using an automated system in managing the teaching and learning activities in a higher education institution. Among others, it particularly centers on the effect of using the SharePoint in managing the continuing professional development activities of academic staff and how this has reduced paperwork load in Bahrain Polytechnic Teaching and Learning Unit (TLU).

Title *Cognitive Loading*

Presenter



Davin Scampton
Curriculum Development Advisor
Bahrain Polytechnic

Schedule 27 March 2019, 9:00-9:45, Room 238

Abstract

During the process of re-jigging courses, it became clear that little or no attention was being paid to students' cognitive load. Simply by keeping the students approach to learning in mind during the materials-creation stage, students can concentrate more on what they are meant to be learning, rather than how to get to what they are learning.

Title *Cyberbullying: Building a Safe School*

Presenter



Dr. Abduyah Yaakub
Assistant Professor
University of Bahrain

Schedule 27 March 2019, 9:00-9:45, Room 239

Abstract

The National Internet Safety Review (NISR) reported that 37.9% of youths were victims of cyberbullying and 30% admitted to engaging in cyberbullying themselves. In a Telecommunication Regulatory Authority (TRA) survey in July 2017, cyberbullying was found to be the largest threat to young people, majority of whom are students. In the survey, 37.9% of young people reported cyberbullying whose implications are detrimental to students' wellbeing. This study uses a narrative approach to expose educators to this critical issue that they, together with policy-makers, may implement preventive measures and educate the public on cyberbullying.

Title *Project-Based Learning (PBL): Implementation and Challenges*

Presenter



Dr. Shaban Aldabbus
Assistant Professor
University of Bahrain

Schedule 27 March 2019, 9:45-10:30, Room 240

Abstract

This study investigates the application of PBL in some Bahraini primary schools. The findings of the study revealed that more than 3/4 of the participants were unable to implement PBL with their students. The various challenges they encountered were also identified. These included choosing significant content, time management, monitoring and assessment, and lack of facilities.

Title *How Humanizing Learning Can Enhance a Flipped Classroom Experience*

Presenter



Fahdia Khalid
Tutor/Programme Manager
Bahrain Polytechnic

Schedule 27 March 2019, 9:45-10:30, Room 241

Abstract

With all developments and ICT integration, the most valuable resource of today's classroom remains to be the students and the teacher. They are the hotspots that transmit energy and elevate each one's experiences. Planning and teaching delivery are inspired by three perspectives: the energy in the classroom, the parallel experiences and the entirety of the learning loop. The presentation aims to elaborate how the model is used in planning a flipped classroom.

Title *NLP and its Use in Education*

Presenter



Michael Pal
English Language Teacher
Bahrain Polytechnic

Schedule 27 March 2019, 9:45-10:30, Room 238

Abstract

Neuro Linguistic Programming (NLP) is a methodology that helps individuals understand and take control of their thought processes and feelings and use them to bring about positive change. Founders of NLP developed a set of ideas and practices that have evolved into the systematic study of human communication and how it can be taught to improve individuals across all areas including sports, industry (TVET) and education. Among other benefits, NLP improves interpersonal skills, self-assessment for both teachers and students. etc.

Title *Addressing the Demands of 21st Century Thinking through the Bahrain Polytechnic Learning and Teaching Model*

Presenter



Dr. Rogelio Levardo, Jr.
Senior Curriculum Specialist
Acting Manager, Teaching and Learning Unit
Bahrain Polytechnic

Schedule 27 March 2019, 9:45-10:30, Room 239

Abstract

Bahrain Polytechnic prides itself as a pioneer in the use of student-centred, active learning methodologies, particularly problem- and project-based learning (PPjBL). This presentation aims to share what the PPjBL model is and how it was developed. The presentation likewise aims to share the successes, challenges and future plan iterations of the PPjBL model.

Title *Apps for Engineering Education*

Presenter



Rajesh Babu Mallela
Lecturer
Bahrain Training Institute

Schedule 27 March 2019, 10:45-11:30, Room 240

Abstract

In the era of mobile technology, apps have played an important role in facilitating engineering education. This presentation focuses on some important apps which students may find useful in key engineering areas. These include BYJU's learning app, ElectroDroid and Industrial Instrumentation.

Title *Differentiation in ELT Classrooms*

Presenter



Biju Jacob
Lecturer
Bahrain Training Institute

Schedule 27 March 2019, 10:45-11:30, Room 241

Abstract

Differentiated instruction is a new eye in ELT classrooms which enables students to acquire the language in the most interesting and meaningful way. The session will focus on how well varied differentiated strategies can fit ELT classrooms and encourage students with diverse learning needs to achieve goals which were considered elusive. The session will provide hands-on experience on some of the differentiated strategies tried and tested in ELT classrooms among students with A2-B1 proficiency (CEFR).

Title *LEAP! Cultivating Cognitive and Motivational Learning through Effective Feedback*

Presenter



Dexter Cadiente
Lecturer
Bahrain Training Institute

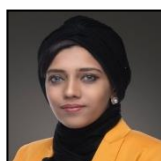
Schedule 27 March 2019, 10:45-11:30, Room 238

Abstract

The value students ascribe to feedback is largely contingent on a multiplicity of inherent qualities and the use of digital platforms/applications through which feedback is cascaded beyond the limits of space and time. Research-based principles in the formulation and provision of feedback cultivate students' cognitive and motivational factors in helping them take a greater LEAP in learning.

Title أهمية الإرشاد التربوي و النفسي في دعم الطلاب

Presenter



Nada Naseem
Senior Counselor
Bahrain Training Institute

Schedule 27 March 2019, 10:45-11:30, Room 239

Abstract

ان نجاح أي مؤسسة تعليمية في تحقيق الأهداف المنشودة يعتمد بالدرجة الأولى على أداء العنصر البشري فيها و كفاءته في التعامل مع المعطيات العلمية و العملية المتاحة، وهذا النجاح يعتمد على ما يتمتع به الأفراد من توافق نفسي و صحة نفسية تساعدهم على تحقيق الأهداف المنشودة ، و من خلال الورقة المطروحة سنؤكد على الحاجة الضرورية للإرشاد النفسي و التربوي في دعم الطلاب من خلال طرح مجموعة من المحاور التي تعزز أهمية الإرشاد و الذي أصبح دور و مسؤولية الجميع في المؤسسة التعليمية ، كما سيتم استعراض بعض محاور المشاركة في المؤتمر الإقليمي الثاني للصحة النفسية لفئة اليافعين و الشباب من خلال عرض بعض الإحصائيات العالمية التي توضح حجم المشاكل النفسية عند الطلاب.

Title	<i>Problem-Based Learning (PBL) and 21st Century Skills: A Case Study</i>
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Presenter

Dr. Rhea Fitzpatrick
Tutor
Bahrain Polytechnic

Schedule 27 March 2019, 11:30-12:15, Room 240

Abstract

This presentation provides Personal and Academic Learning (PAL) as a case study in the implementation of PBL as a vehicle to develop the skills, attitudes and behaviours required for life-long learning. It outlines the rationale and process of using PBL for a transition course. This course provided a holistic approach to teaching and learning which was both challenging and rewarding.

Title	<i>Mentoring: Moving Away from the Front of the Classroom</i>
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Presenter

Rhoda Batul-Videz
Lecturer
Bahrain Training Institute

Schedule 27 March 2019, 11:30-12:15, Room 241

Abstract

The presentation highlights how mentoring strategy is used to motivate students to participate in discussions. It also describes how the literal re-positioning of the teacher from the front of the classroom to teaching side-by-side has resulted in noticeable increase in participation during discussion, ease of sharing ideas and asking questions, and more importantly, improved marks in assessments.

Title	<i>Basic Knowledge about Chemistry Drawing Tool</i>
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Presenter

Dr. Haleel Khan
Lecturer
Bahrain Training Institute

Schedule 27 March 2019, 11:30-12:15, Room 238

Abstract

The presentation aims to explore the importance of the philosophy of Science Education and suggest strategies that can facilitate students' conceptual understanding. It also highlights some relevant digital tools to promote students' interest, curiosity and understanding in learning Science Education.

Title *Students' Best Science Teaching Practices in Bahraini Governmental Primary Schools*

Presenter



Dr. Rayenne Dekhinet
Assistant Professor
University of Bahrain

Schedule 27 March 2019, 11:30-12:15, Room 239

Abstract

This study seeks to find the teaching practices that help elementary students learn science better, and the statistical differences between male and female student perceptions. Findings revealed that there are no statistical differences between male and female students' perceptions and that the science teaching practices perceived to be the most effective are learning in a social environment through cooperative learning, expressing and discussing opinions, tutoring peers, learning independently, learning through doing, learning through technology-aided activities, and learning from timely feedback provided by both teachers and peers.

Title *Teaching Strategies for ESL Teachers to Develop Cognitive Skills of Adolescent Digital Learners*

Presenter



Ameena Aziz
Lecturer
Bahrain Training Institute

Schedule 27 March 2019, 12:45-1:30, Room 240

Abstract

In this age of digital learning, teachers must explore, experiment and adopt new strategies to engage their learners and activate their cognition skills. The presentation centers on four teaching strategies which lead to measurable outcomes and ensure level progression - Learning Collocations through Data Analysis, Using Pictorial Representations and Mind Maps, Creating Rap Jiggles Using Music Apps and Using Context Words in Forums.

Title *Students' Attitude towards Undergraduate Foundation Mathematics Remediation in a Higher Education Institution (HEI) in a Gulf Country*

Presenters



Dr. Ritu Shrivastava
Tutor
Bahrain Polytechnic



Nehru Santhanam
Tutor
Bahrain Polytechnic



Dr. George Toworfe
Tutor
Bahrain Polytechnic

Schedule 27 March 2019, 12:45-1:30, Room 238

Abstract

This study outlines the causes of Foundation Mathematics students' reluctance to access support and remediation for the achievement of their academic goals. It focuses on their perceptions about learning mathematics, specifically, the impact of learning environment to their self-confidence, anxiety, enjoyment, motivation, and the relevance of mathematics in personal and professional experiences. Improving on the factors contributory to poor performance, and the sensitization of students to discard practices which prohibit effective participation in the subject, could improve their performance.

Panel of Evaluators



Dr. Faten Saad Mahmood Abdel-Hameed
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