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Innovative
Teaching & Learning
EXPO
2017

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MESSAGE FROM THE

CHIEF GUEST

I am delighted to be a part of such a prestigious and unique Innovative Teaching & Learning Expo event that was held for the first time in Bangladesh at Daffodil, organized by Daffodil Education Network along with British Council on 25th and 26th of August 2017.

Education is enlightenment in a modern civilized nation and it should be based on innovative thinking or knowledge. Present government has been giving the highest priority to modern and quality education and human resources development. I am very positive that Daffodil Education Network is trying to introduce and facilitate a digital-based innovative education at classrooms to prepare all policy-makers and educators; also teachers with awards for their best practices and students with their innovative projects for the best interest of the 21st century.

I hope Daffodil Education Network will organize more Innovative Teaching & Learning Expositions in the future.
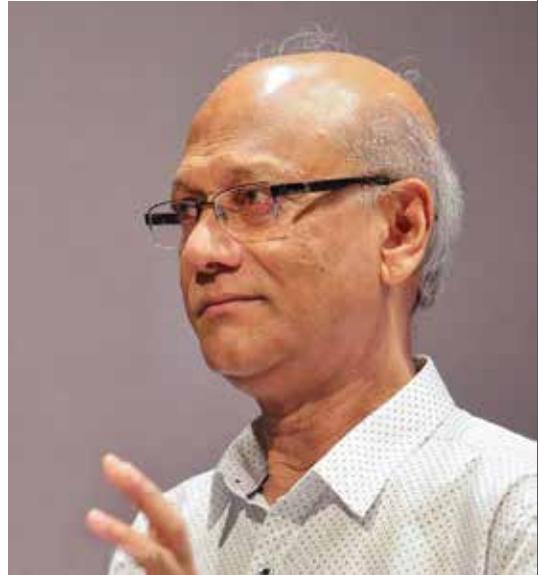
Nurul Islam Nahid MP
Honorable Minister
Ministry of Education

MESSAGE FROM THE

CHAIRMAN

It is a pleasure to extend to you all a warm welcome from Daffodil Family. "Innovative Teaching and Learning Exposition 2017" was hosted for the very first time in our country. We are grateful to all of the stake holders to make this event a grand success.

We are committed to continue these efforts so that slowly our teaching and classroom education turn effective and technology driven. We want to bring a new era on Innovative Teaching and Learning, where more innovative ideas will be nurtured in a single platform to capitalize blessings of digital Education. We have already set out the plan to continue this event that will help the entire educational strategy, including all teachers and students across Bangladesh. We will be seeking support from Educators and Policy Makers from all walks of life.

May the Almighty bless all of us.

Dr. Md. Sabur Khan
Chairman
Daffodil Family

MESSAGE FROM THE
VICE CHANCELLOR

It is a matter of immense joy that Daffodil has a much needed Innovative Teaching & Learning Expo (ITLE-2017) – a timely event given the vision the Prime Minister's vision of Digital Bangladesh. As we move into the current era of global innovation in digital education, Daffodil will play a role model to reach out to every innovator in the field of education all over Bangladesh.

I am happy to be a part of the ITLE 2017 that recognizes the efforts of all the innovative policy-makers, educators, teachers and students in Bangladesh.

I would also like to thank our distinguished international and local guests for gracing the expo event and encouraging our teachers and students.

I rejoice this achievement with our ITLE family in thanking the Creator for the success He has granted and for giving us the opportunity to celebrate this every year with all the pageantry.

Prof. Dr. Yousuf M. Islam
Vice Chancellor
Daffodil International University

CEO, NCC EDUCATION

There are two clear take away messages from the Innovation Teaching & Learning Expo for me – which can be a message for all in Bangladesh as well.

TECHNOLOGY

Technology is the enabler for Bangladesh to achieve a sustainable competitive advantage in Education in particular. Seeking new digital delivery platforms, such as online learning and specifically Bachelor Degrees, will enable broader, faster and greater participation in the education journey for your country

BEST PRACTICE

I challenged everyone to never accept Best Practice – it does not exist. Think Better Practice. Be innovative and think differently – never settle for Best. Better it.

It was a privilege to participate in ITLE 2017 and meet so many wonderful people and thank you for your kind hospitality to allow me and Yuvraj Singh to represent NCC Education.

Allan Norton
CEO
NCC Education, UK.

FEW WORDS FROM THE

ORGANIZING CHAIR

The most competitive challenge of digital based education in this new world of globalization is the need to prepare our country's policy-makers, educators, teachers and students to interact with a world of continuous innovation, that dramatically changes every year to say the least, with the advances made by technologies like telecommunications and the acceleration of information communication technology which have ushered in the digital-based creative and intellectual society of free-thinkers, in terms of innovative teaching and learning.

Our objective with ITLE 2017 was to bring this awareness on a national level in Bangladesh. We have received a huge response from all relevant sectors for the event and they were all on a positive note that fulfilled our targets. Since this was the first ever to be held in Bangladesh, we have had a direct appreciation from the Education Ministry of the Governments' Republic of Bangladesh. With that being said, we are already preparing for ITLE 2018, as we have decided to host it every year.

Thank you all from the bottom of my heart to all who have participated in the 2-day ITLE 2017 event and thanks to others as well, who could not attend this year but have appreciated our efforts.

We hope to see you all soon again next year on ITLE 2018. May Almighty keep blessing us all.

Mohammad Nuruzzaman
Executive Director
Daffodil Education Network
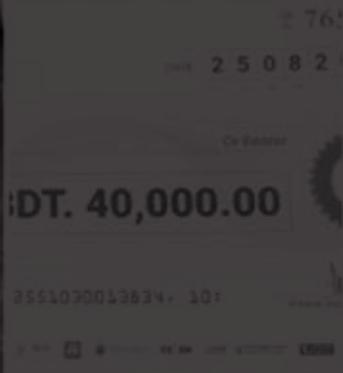
EXPO
2017

ABOUT THE
EXPO

Daffodil Education Network (DEN), in conjunction with British Council has recently organized a special and a prestigious Educational Event called "Innovative Teaching & Learning Exposition (ITLE) 2017", for the first time ever of its kind in Bangladesh.

Innovative Teaching & Learning Expo aims to provide an open ground for fruitful interactions among – Principals, Educators and Students. The platform was established to bring people from diverse educational sectors; with new innovative ideas; best educational practices; and the use of latest technologies – all together for the educators and learners so that they learn, grow and explore their highest intellectual, creative and other skillful potentials.

OVERVIEW

In today's world, innovation is heralded as one of the cornerstones of success. Pioneers in the field of Teaching and Learning have been leading the way by exploiting many innovative ideas and practices. Accelerated adoptions of these noble implementations indicate their universal acceptance. In comparison, at a national level, exposure to many of such Teaching and Learning Innovation can only be deemed as nominal. That is why, this event had attempted to underscore the significance of these methods as well as to apprise the implications to a wider audience right here in Bangladesh.

VISION

We believe in shaping a better future for our youth by effectively transforming the existing pure-lecture-based format of education in Bangladesh. Our Vision is to bring together - people, ideas, practices and latest technologies so that educators and learners can fulfill their potential in Innovation.

OBJECTIVE

The prime objective of Innovative Teaching & Learning Expo (ITLE) was to bring all Principals, Teachers and Students (P, T&S) to a common platform where they got to showcase their ideas and projects related to innovation. This definitely gave them an opportunity to explore their undiscovered talents through their unique ideas. P, T&S got an opportunity to exchange their authentic innovative ideas and gladly shared their best practices to nurture within themselves, the leaders of tomorrow. At the same time P,T&S were given the floor through plenary sessions, to discuss or exchange their inspiring views and directly ask questions to the industry leaders or established entrepreneurs affiliated with the world of innovation. Seminars and workshops by renowned speakers and educators have provided the much needed expertise which was extremely useful for the P, T&S in their training programs. They have learned a great deal about the latest trends in the field of innovation. This will help them grow with the effective and efficient use of latest technologies in innovation that are used, to upgrade the model of global education.

ITLE is the doorway in Bangladesh towards that innovative model.

TARGET AUDIENCE

It was expected that the ITLE 2017 will attract more than 10, 000,000 visitors indirectly and 10,000 target audience will visit and 1200 participants were also expected to attend the program. The Expo attracted the following categories of participants:
1.   Specialists/Professionals/Experts of related arena
2.   School, College and University students.
3.   General visitors and Opportunity-seekers
4.   Education Entrepreneurs
5.   Industry Leaders
6.   Policy-makers, Government and Non-governmental officials
7.   Local and International media and communities

ABOUT ORGANIZER

DAFFODIL EDUCATION NETWORK
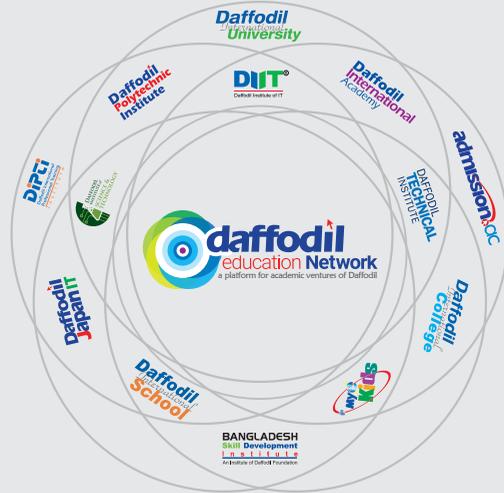
Daffodil Education Network is Bangladesh's leading education provider for global education solutions with a historical chronology and an exciting future. The network is an umbrella unit of all educational ventures of Daffodil namely, Daffodil International University (DIU), Daffodil International College (DIC), Daffodil International Academy (DIA), Daffodil Institute of IT (DIIT), Bangladesh Skill Development Institute (BSDI), Daffodil Polytechnic Institute (DPI), Daffodil International Professional Training Institute (DIPTI), Daffodil International School (DIS), Daffodil International College (DIC), Daffodil Japan IT (DJIT), My e-kids, Admission.ac and Daffodil Technokids. The institutes of this unit are regarded as evolving, modern, successful and innovative education solution with a long and proud tradition of teaching and research. The main objectives of this unit are research and development, and quality control of the institutes under this network. We are committed to our students and clients to produce job oriented education, research and training. The education unit of Daffodil Education Network has got recognition from many of the local awarding board, Bangladesh Technical Education Board, National University and International awarding board such as, Microsoft IT Academy, NCC Education UK, CEA, London School Business (LSB), Innovative, SUN and CISCO too. The success rate of our students in the job market is 100%. The job portal- jobsbd.com, helps us to employ our students in their desired field. Daffodil Foundation has been working to give support with Scholarship and Financial Aid to the meritorious but poor students. Besides, we have added many of the local, government, multinational and international organizations as our Corporate Clients.

The quality of its offers and success of its students have helped us to become the trusted education solution provider in Bangladesh and beyond.

ABOUT CO-ORGANIZER
BRITISH COUNCIL

The British Council (BC) is the UK's international organisation for cultural relations and educational opportunities. They create friendly knowledge and understanding between the people of the UK and other countries. They do this by making a positive contribution to the UK and the countries they work with - changing lives by creating opportunities, building connections and engendering trust.

BC works with over 100 countries across the world in the fields of arts and culture, English language, education and civil society. Each year they reach over 20 million people face-to-face and more than 500 million people online, via broadcasts and publications. Founded in 1934, British Council is a UK charity governed by Royal Charter and a UK public body.

BC is celebrating over 65 years of cultural relations with the people of Bangladesh. They are currently active in all 64 districts across Bangladesh through diversified services, activities and programmes.

BC works with the best of British creative talent to develop innovative, high-quality events and collaborations at home and abroad. Their focus is on institutional links and nurturing new networks that can blossom into sustainable creative partnership in the long term. They are committed to sharing and building creative skills of both Bangladesh and UK partners.

STRATEGIC PARTNERS

BS RM   HRDI HR Development Institute

EXHIBITORS FOR THE EXPO

NCC education   idp | IELTS IDP Education – a proud co-owner of IELTS   Agami   Venturas Future beyond Destiny

BANGLADESH OPEN UNIVERSITY   10 MINUTE SCHOOL   BOLD   JOBSBD
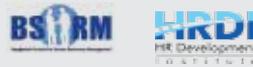
SESSIONS
MATRIX
IN A NUTSHELL

THE INAUGURAL SESSION OF THE EXPO

The inaugural session of the two-day long Innovative Teaching & Learning Expo-2017 was held on 25 August, 2017 at the 71 Milonayaoton, Daffodil Tower, Dhanmondi, Dhaka-1207.

The inaugural session was graced by the presence of Mr. Nurul Islam Nahid, MP, Honorable Minister, Ministry of Education, Government of Bangladesh as Chief Guest. Mr. Md. Sabur Khan, Chairman, BoT, Daffodil International University and Daffodil Family, chaired the session. Professor Dr. Munaz Ahmed Noor, Vice Chancellor, Islamic University of Technology and Professor Dr. Yousuf M Islam, Vice Chancellor, Daffodil International University, were present as Special Guests. Mr. Allan Norton, Chief Executive Officer, NCC Education, UK and Ms. Sarwat Reza, Head of Cultural Centre, British Council; Bangladesh were present as Guests of Honor. Among others, the Executive Chairperson of the ITLE Organizing Committee, Mr. Mohammad Nuruzzaman, Executive Director, Daffodil Education Network and Co-Chairperson

Professor Dr. Farid A. Sobhani, Dean, Human Resource Development Institute, DIU were both present at the inaugural session.

At the outset, Mr. Mohammad Nuruzzaman, Executive Director, Daffodil Education Network (DEN) as well as the Executive Chairperson of the expo organizing committee, in his introductory address, cordially welcomed all the guests and participants of the expo. He clearly mentioned that innovation was considered as one of the cornerstones of success. Pioneers in the field of Teaching and Learning have been leading the way by exploiting many innovative ideas and practices. Accelerated adoptions of these noble implementations indicate their universal acceptance. In comparison, at a national level, the exposure of such Teaching and Learning Innovations can only be deemed as nominal. That is why, this event has attempted to underscore the significance of these methods as well as to apprise their implications to a wider audience right here in Bangladesh.

ADDRESS BY SPECIAL GUESTS

Professor Dr. Yousuf M Islam, Vice Chancellor, Daffodil International University, emphasized on effective and meaningful teaching-learning during his address. He explains, human beings can memorize the topics which reflect in the answer scripts; but to apply the knowledge in real life, they need innovation in their thinking pattern. Teachers should teach in such innovative ways so that students can utilize the aptitude in solving real life problems, he added.

Professor Dr. Munaz Ahmed Noor, Vice Chancellor, Islamic University of Technology applauded the timely initiative taken by Daffodil Education Network to encourage innovative teaching & learning. He pointed out the drawbacks of traditional ways of teaching & learning, i.e. old pedagogy, less interaction & collaboration, one way communication, assessment based on fixed time written answer script, lecturing, etc. He also advised some ways to improve innovativeness in teaching-learning, i.e. long term memory teaching system, flexible timing and place of classes, anyone can learn from anywhere, multi-way communication in the class, transforming knowledge creators rather than knowledge consumers, learning to learn, passive learning to active learning, employability with use of technology, etc.

Behavioral education is very crucial for the students as there are no ways to avoid social parameters. To be a skilled and good human being, collaborations between educational institutions and society is a must, he added. Advocating the blended learning, he emphasized the implementation of seven principles of teaching-learning along with developing inter-personal relationship. He also underscored the essence of utilizing the technology and innovation to advance the country towards a developed country.

ADDRESS BY GUESTS OF HONOR

Mr. Allan Norton, Chief Executive Officer, NCC Education, UK in his address acknowledged the trusted partnership of Daffodil Education Network with NCC Education, UK. He sighted that innovation is a continuous process which never ends. A different usage of technology on the internet like Facebook video live streaming for one. All of them are innovations which are being used all around the world and eased the way of communication, education and business. In education sector, there are ample opportunities for innovations. All the contents can be made enjoyable through innovative ideas and practices. He warned that in the name of innovation, nobody should engage in malpractice for anything. For better and effective implementation of good practices of teaching-learning, everyone should be pro-active and innovative in both teaching and learning processes.

Ms. Sarwat Reza, Head of Cultural Centre, British Council, Bangladesh talked about the activities and contribution of British Council, Bangladesh in the field of education, in Bangladesh. The Cultural Centre of British Council has been working to spread the education with culture and recreation. She opined that self-access learning should be encouraged and expanded for ensuring life-long learning by the students. Innovative teaching experiences and practices should be frequently exchanged with various countries. Public libraries of the country can be transformed into the center of knowledge-sharing to create a knowledge based society in the country.

ADDRESS BY CHIEF GUEST

Mr. Nurul Islam Nahid, MP, Honorable Minister, Ministry of Education, Government of Bangladesh in his speech praised the initiative to hold the first of its kind innovative teaching-learning expo in Bangladesh along with other digitalized activities, taken by Daffodil International University and Daffodil Education Network. After liberation of the country, it is significant to bring liberation of human beings through effective and innovative education, he added. It is also important to utilize the technology and innovations for human development as well as to transform the country into a developed nation by the year 2041, he acknowledged. He emphasized on quality primary education for all and highlighted the Sustainable Development Goals (SDG) aspect of education. Relevant and timely education policy formulation is crucial to ensure these developments. The Minister informed that Bangladesh achieved 50:50 ratio of male and female students in all the stages of education in 2012 for the first time. Currently, this ratio is 57:43 for higher education. Making the new generation, capable of transforming the country into a developed one, is the prime motto of education and the Government of Bangladesh has been working hard to ensure that, he stated. He also underscored the essence of technical and vocation education as only university education will not be enough to meet demands of skills in all levels. He informed that the Government has been thinking to make the basic education upto class eight compulsory, instead of primary education.

Discussing about the need for innovations in the higher education sector, the Minister stated that students will be able to work across the world through lifelong learning gained from the innovative teaching-;learning process. Practicing knowledge, making innovations and undertaking industrial-need-based extensive research should be the core aptitude for universities and the Higher Education Quality Enhancement Project (HEQEP) of the Ministry of Education and World Bank has been working to ensure these aptitudes through various sub-projects activities in the universities of the country. He hoped to have a society where knowledge will not be imported rather knowledge-based and technology will be exported from the country. Traditional process of education needs radical changes complying with world standard. The classroom should also be equipped with IT based tools and technologies so that all students can have their easy access to internet.

ADDRESS BY THE CHAIRPERSON OF THE SESSION

Mr. Md. Sabur Khan, Chairman, BoT, Daffodil International University and Daffodil Family in his address informed that considering the need for innovative teachers, DIU introduced Teaching Apprentice Project (TAP) in 2016. DIU intends to develop best teachers with innovative teaching process through this TAP project where graduates from all universities will have the opportunity to take part in the next phase. Teachers need to know the pulse of the students and their employability must also be looked after by the teachers. He ensured that the comprehensive outcome of the two-day long expo will be shared in both printed and video documentary version.

Talking about the behavioral education, Mr. Khan informed that a three credit hour course on 'Art of Living' was introduced as mandatory at DIU three years back. To transform the students into a techno-hub and fully employable, DIU has also started 'employability 360 degree' course and has been providing free laptop to all students. It intends to make the students think dedicatedly regarding their career mapping and focus. At the

same time, he stressed the importance of innovative teaching and learning. He requested Honorable Education Minister, GoB for providing their cooperation in organizing this expo by DEN in all 64 districts of the country next year as without the cooperation from the Ministry; it would be challenging to implement the concept of the expo.

He underscored the need for exchange program of both faculty members and students for better understanding of the world practices and standard of teaching and learning. It is also crucial to learn the cultural education through exchange program in various countries. He also cited that students' performance and expectation is very important and student's focus should be specific not diversified. Social network should be utilized properly both by teachers and students as an effective tool for innovative teaching-learning. He requested the organizing committee of the expo to include the case study of successful technology users as well as students' innovative project in the next expo. For that, students need to be interactive with teachers in the classroom, he added.

VOTE OF
THANKS

Professor Dr. Farid A. Sobhani, Dean, Human Resource Development Institute, DIU and Co-Chairperson of the expo organizing committee offered his vote of thanks to all the guests and participants for their valuable contribution to make the session a success and concluded the inaugural session.

After the inaugural session, the Chief Guest and Honorable Education Minister of the Government of Bangladesh - Mr. Nurul Islam Nahid, MP along with Mr. Md. Sabur Khan, Chairman, Daffodil Family and other Guests visited various stalls of different strategic partners of the expo.

SEMINAR ON
ART OF INNOVATIVE LEARNING

Speaker:
Mr. Syed M Rahman
Director, SA, DIU

Chair:
Prof. Dr. Khondoker M. Hossain
Professor, Vice Chancellor, BOU

Discussant:
Dr. Md. Shafiqul Alam
Director, Planning and Research, BOU

SESSION ANALYSIS:

A seminar titled "Art of innovative Learning" was presided over by the Chief Guest Prof. Dr. Khondoker Mokaddem Hossain, Pro VC, BOU, where Dr. Md. Shafiqul Hossain, Director, Planning and Research was present as Discussants and Mr. Syed M. Rahman, Director SA, Daffodil International University contributed as a keynote speaker. The event was organized under the banner of Innovation Learning and Teaching Expo - 2017.

In his introductory speech, Mr. Syed M.Rahman stressed on practice of innovation. It was reported that the practice of innovation should not generate not only from the students but also from the teachers as well, which can make it more meaningful and dimensional in learning .He said that if the parents and teachers deal with the learners with proper voice, then the students can easily understand any fact easily. He also told about brain at tender age. He believes, teenage brain is in the process of construction which takes lesser time to perceive anything. So, innovation is needed to make them understand any topic easily as human brain, usually, takes 4 seconds to receive any ideas.

He also talked about the radical invention of technology. According to him new technologies such as WhatsApp. viber, imo, Facebook, twitter can be used properly as education tools which take less time than previous old technologies

introduced throughout the world. So the world has become closer and we can learn and know many more new things from the furthest corner of the world with the innovation of technology.

He also said that the world is notably getting faster. If you remain static you will automatically fall behind. Moreover he also gave much priority on unfairness in the exam which must need to be eradicated. According to him discovering stupidity is the first step of learning. According to him we should also give priority on new things and we have to have the capability to accept the new things. So to keep pace with the new things we have to cope with the new ideas and new innovation. He also gave priority on the learning of Mathematics. According to him mathematics is the language of thinking. And rhythm sense is a must of human being. Without Math and music,

no one can learn anything. Moreover we need to develop our rhythmic sense.

He also addressed the abusing of technology. He informed the audience, most of the students of school and colleges waste their worthy time, watching pornography instead of watching the innovative ways of learning positive things,

Prof. Dr. Khondoker said that our education has been going through in an isolated way. According to his observation, he found that we do not have any comprehensive plan and purpose regarding general education area of the country.

Dr. Shafiqul Alam told in his analysis, family is the first step of learning. According to him every person should be innovative irrespectively. He also emphasized on rural plan development in the process of education and learning.

SEMINAR ON
A GRADUATE'S GUIDE TO GETTING HIRED –
A CAREER ORIENTATION

Keynote Speaker:
Mr. K M Hasan Ripon
Advisor, BSDI

SESSION ANALYSIS:

At the outset, keynote speaker highlighted the functions of jobsbd.com. He told that this entity facilitate job seekers to find out their job and help employers to find their suitable employee.

In his delivery of speech, he discussed on various issues on career orientation. He spoke about on how asking question benefits someone as asking question Improve your knowledge, promotes personal confidence, career planning, technical skills, language skills, help in finding mentor, opens-up the areas of learning

In explaining about associated risks, he informs us that, successful people take risks; analyze the issues meticulously. He also stresses on the art of learning by doing it yourself and practice. Moreover, he also requested us to be updated with LinkedIn and Facebook.

SEMINAR ON
BLENDED LEARNING

Speaker:
Prof. Dr. Touhid Bhuiyan
Head, Software Engineering, DIU

Chair:
Dr. S M Hafizur Rahman
Professor, IER University of Dhaka

Discussant:
Prof. Dr. Syed Akhter Hossain
Head, CSE, DIU

SESSION ANALYSIS:

"Education is not the filling of a pail, but the lighting of a fire."
- William Butler Yeats.

In traditional teaching-learning pedagogy, teachers deliver lectures where students are the listeners of the course contents. Another form of learning is online learning where study materials and resources are provided online so that students can learn and get their access anytime, anywhere. In fact, online learning courses is something one can study at home or at work - wherever they like, whenever they like, within a prescribed time frame. The courses have a set schedule and are delivered over period. In recent days, the idea of blended learning is gaining popularity. Blended learning combines both traditional and online learning. In this process, students have to participate in both face-to face interaction and online activities simultaneously. Broadly, teacher's responsibility is to help and facilitate students to learn and understand the basic objectives of learning instead of giving stereotype lecture. Emphasizing the learning process, the speakers also explain that the process is different for every individual and learning should be an experiential. In blended learning, this process becomes more challenging because technology is directly involved here.. Human beings inherit some knowledge genetically. This process also differs from age to age. To make learning effective in classroom, students must know why they should learn a particular topic.

Learning should be flexible. There should be a mutual respect between teachers and students. Teachers should encourage and motivate the students. Compliments and rewards are necessary to motivate students.

Reportedly, human beings can learn through visualization upto 80%. We can also register knowledge through senses and when we hear something, 70% people can store the information up to 3 hours. After 3 days only 10% people can remember what they had heard. If we learn through hearing and visualizing, after 3 days 65% people can remember what they have learned. This process of learning is call simulation.

One of the main drawbacks in traditional learning is that teachers faces challenges in adjudging the level of learning of each student, separately as the curriculum may seems to be tedious for some students; some may find it very hard to understand. In blended learning, students can learn according to their ability. They can repeat the process, if they want. This makes blended learning process effective and facilitate in faster learning. In this perspective, 'Bloom's Taxonomy' is used to define the level of learning.

There are 6 models that are being used mostly for blended learning. Face-to-face class is obligatory in each models of blended learning process. In flipped classroom model, students are supposed to study at home and the problem solving part takes place in face-to-face class with the help of teacher. The key purpose of the flipped classroom is to engage students in active learning where there is a greater focus on students' application of conceptual knowledge rather than factual recall. Another model is Rotation. The whole curriculum is divided into different segments. This category includes any course or subject in which students rotate—either on a fixed schedule or at the teacher's discretion—among learning modalities, at least

one of which is online learning. Students perform their online activities from home and come back for face-to-face interaction after a defined schedule. Flex is another model, which is very popular in Japan & Korea and this model of blended learning includes four sub-models: Station Rotation, Lab Rotation, Flipped Classroom, and Individual Rotation.

In this session, speakers also addressed the importance of platform. Teacher may not present in the class physical. There should be some platform facilitating the class. The platform could be a human or a robot. The classroom is physical but interaction with teacher is online. Another model of blended learning is 'Self-Blend' model. In this process students can decide: which courses or which portion they will take in online. It was mentioned that Wikipedia, blog, audio, video tutorials, e-portfolio, webcasting etc are some great sources and tools for online learning.

Research shows that blended learning is more suitable than online learning. But, the main challenge for blended learning is that everyone does not have the access to the right and proper technology and internet access. Another challenge for blended learning is motivation. There is a possibility that students may easily divert their attention from the blended learning. It is also observed that online learning also lacks of human interaction which may, sometimes, affect in learning process.

WORKSHOP ON
G-SUITES FOR EDUCATION

Speaker:
Khondker Mohammad Shah - Al - Mamun
Senior Assistant Director
Daffodil International University

SESSION ANALYSIS:

Google Educator Groups (GEGs) are communities of educators who learn, share, and inspire each other to meet the needs of their students through technology solutions, both in the classroom and beyond.

Learn, Share, Inspire, Empower - these four words represent the essence of GEGs. Educators will build relationships with other educators and gain the necessary skills to use open technology to deliver the best possible education to their students.

The speakers describe the G-Suites for Education before the students and discusses on various matters relating to this innovation.

Google apps introduction

The list to Education based important Google apps applications will be discussed now.

Google Classroom:

Classroom is completely made for educational institute. Many of you may have heard about LMS (Learning Management System). Google classroom is like LMS. Teacher can collect assignment, quiz and connect with their students after class by using Google classroom.

Gmail:

It is an regular apps for communication.

Google Drive:

Google drive is giving us a cloud storage. It is free. Those who use education domain they have unlimited storage. You can store all the documents, presentation and files in Google drive and you can access it from anywhere of the world. You don't need to use pen drive or extra storage. Those who have android phones they also can store all the data.

Google Calendar:

It's an effective app for daily scheduling. Every teacher has many schedules so you can organize this calendar schedule. You can also inform about exam or class schedule to parent by using calendar apps.

Google Docs:

It's like word document. When you write in word document you need to press ctrl + S. otherwise It may not be saved. But in Docs you don't need to do this. It will be saved automatically. You can also share data by using these Docs. As a teacher you may need to work for student document/ questions you need many suggestions.

Google Apps For Education help us to Search for Information, Share, Present, Create, Protect, Store, Connect, Collaborate, Engage. Every step is very necessary for teacher and students.

SEMINAR ON
INNOVATIVE LEARNING TECHNIQUE USING NEW MEDIA

Speaker:
Mr. Solaiman Shukhon
Motivational Speaker

Chair:
Mr. Allan Norton
Chief Executive Officer, NCC Education, UK

Discussants:
Ms. Yoriko Ueda
Founder & CEO, Venturas Ltd, Japan

SESSION ANALYSIS:

In his session, Mr. Allan Norton said that we can use new technology and new media for innovation at anything. One important thing for Bangladesh is that the country can easily use this technology and media for addressing innovation. But, we have to be careful on not for doing any sorts of discrimination; irrespective of color, sex, gender. And Internet is the sign, where you are.

As invited, Mr. Solaiman Shukhon speaks in his session, emphasizing the core objectives of learning. He told that some people say or regard learning is the boring thing and it is difficult for them to make study to their children. He then interacted with his audience through his first question: "How do we learn things?" He, himself explains the answer as the first method of learning is "observation". To learn something, we should have a good observation capacity or skills. We should observe what's going on around us, vital component for learning. Observation will be the new thing or innovation in learning. The second method that he shared: "do it yourself" prophecy. We should change our overall mindset towards listening and learning as we may learn something, soon after listening from others, we will learn only for the exam, only for the result. We should change the traditional concept (as learn for good result and exam). We should improve the habit of 'do it yourself' although it is very difficult at our cultural eco-system.

He also emphasized "gamification" concept. He told that we can learn math, chemistry, and physics by playing games techniques, easily. There is huge opportunity to learn something through games and simulation process which is important for innovation in learning process. If we want to learn something, we should find out the proper environment to do something where we can act accordingly. All these things take place, because of technological advancement. He also emphasizes on learn something with interest. Whatever your point of interest, what other institutions, trying to accomplish, should grab and learn by yourself and try to learn any interesting topic in life from anywhere.

Session speaker: Ms. Yoriko Ueda, Founder & CEO, Venturas Ltd, Japan

At the beginning, she introduced her company which is an education technology company based in Bangladesh. It utilizes technology to

improve learning more effective. She shared her experience in japan that, the concept of gamifications, simulations, virtual reality, sports; these kinds of methods are becoming very popular there. The highly motivated students do not face any problem in learning because they can do by self-learning process. But the lower motivated students cannot catch the traditional learning, which is a challenge; they cannot concentrate on their learning or memorize for too long. The concept of gamification can help a lot, in this regard. For example, the students who cannot concentrate on their studies for long time have applications ('apps') which are more enjoyable to study for long time and can learn, easily. In this way, we can keep improving our learning and understanding. This kind of technology can help students in these sorts of cases. She added that her company VENTURAS, has recently launched a mobile learning app named "Janoki" which provides a very interesting feature called "Janoki Tiger English Competition".

PARTNERS SESSION
CREATING A BETTER FUTURE THROUGH EDUCATION

Session by:
Agami Education Foundation

SESSION ANALYSIS:

Agami Foundation works with underprivileged children of Bangladesh. It is a non-profit organization. They have their employee even in USA. Officially, they are working from 2011. The presenter said that we are trying to provide education through more than 30 schools. We select the children who are underprivileged and channels funding to many students of different schools.

The session speaker shares that they have many programs like:

Khan academy Bangla
- LiF (Life is Fun)! Science Education
- Continued Education Program

Teacher aids
- National Science Debate
- Student Internship

Teachers Training
- Healthcare for Education (HfE) and Health Education Course
- Ready to Read (RtR)
- English Books and Libraries

SEMINAR ON
HOW CAN SOCIAL MEDIA BE EFFECTIVELY USED FOR INNOVATIVE LEARNING?

Keynote Speaker:
Mr. Arif R Hossain
Co-Founder, Aamrai Bangladesh

Panelist:
Mr. Syed M. Rahman
Director, SA, DIU

SESSION ANALYSIS:

Firstly, Mr. Arif R. Hossain told, "If I do something fruitful for me that means I am doing something for Bangladesh."

Talking about the reality he said, identity crisis is one of the major problems, now. At the beginning, he told, the main focus of this session is to help the audience to find out their identity.

We have to be passionate and determined at our work as we found lack of dedication towards assigned work. We can render our services towards our motherland, Bangladesh, by dedication. We need to become best at our work. We have to do the things that we love to do and we should have passion for it.

He advised the audience to become determined on their destination/goal to grab success.

Mr. Arif R Hossain tells about 'Social Media', which he thinks as a two way communication. He tells, the social media has both good and bad impact since it has opened the floor to share anyone's opinion. Teachers have great responsibility to teach their students in learning how to use social media, effectively. We need to unmask the mask.

SEMINAR ON
VIRTUAL REALITY (VR) MEETS EDUCATION

Speaker:
Ms. Dilruba Chowdhury
VP, Agami Director
Khan Academy Bangla

Chair:
Munir Hasan
Coordinator
Youth Programme Prothom Alo

SESSION ANALYSIS:

The session rotates around the concept of Virtual Reality in education. Education is another area which has adopted Virtual Reality for teaching and learning domains. Technology for VR includes lenses with required headset, virtual screen and controller to detect the movement of the user which also refer to as augmented reality

In 'Augmented Reality' process, the user stays in the real world but some objects are added which are virtual. Google Classroom is an example of AR which is widely used. AR is not only about objects, it can be in the form of data, sound etc. act as real life application of VR.

For citing practical example, we use GPS to find the location. GPS guides us with instruction according to our movement which resembles to VR. There are some other apps which help the visitors to explore the museums. It is almost like you have a virtual tour guide with you at that moment. This apps work with AR concept where it can help you for giving you the direction and required information about that particular place. For education the use of AR is more common than VR.

Mixed reality is the amalgamation of real and virtual worlds which aims to build a new environmental ecosystem and visualizations where physical and digital objects shall exist together and interact at real time. MR seamlessly integrates digital objects as if they are really there.

By 2025, 15 Million students (K-12) will get VR education support around the world. VR technology will worth $0.7 Billion in market by this time.

Application of VR:

- Military
- Healthcare
- Fashion
- Business
- Sports
- Construction/ Engineering
- Entertainments/ Media
- Education

Why VR in education?

- Retention
- Engagement
- Faster Learning
- High Level Knowledge Transfer
- Explore places and situations without leaving classroom
- The pyramids, Museums, Inside a body, or Into Space.
- Bringing Science to life.
- Deepen understanding of subjects such as biology and anatomy.
- Vocational Training

Concerns:

- Replacing Field trips and offline enrichment opportunities.
- Less sophisticated technologies less impactful

WORKSHOP ON
PARTICIPATORY ENGAGING TEACHING (PET)

Speaker:
Prof. Dr. Yousuf M. Islam
Vice Chancellor
Daffodil International University

SESSION ANALYSIS:

Prof. Dr. Yousuf M. Islam started his session with VIPP system. At the beginning, Prof. Dr. Yousuf M. Islam started explaining the following model and examples resemblance with human being and monkey: He told "When you give lecture you have many ears in front of you. Let us imagine that one is human ear and other one is monkey's ear. Both are listening the lecture. At one stage, he asks several questions before the audience to start brainstorming".

"….Will monkey be able to listen what lecturer is saying? Well monkeys have larger ear than you. After listening the sound where does it go? It goes to the brain. In both case it is equal it is just a sound. So if we want to make a difference where is the difference be? In brain, Human being may need to apply some meaning to the sound. One of the way is to simply ask question. Human being can apply meaning or memorize. Learning should need to be placed in brain. He also explained the Sura from Holy Qura'n: And He taught Adam the names, all of them, then he presented them to the angels, and said, "Tell Me the names of these, if you are sincere." (2:13). He said, "O Adam, tell them their names." And when he told them their names, He said, "Did I not tell you that know the secrets of the heavens and the earth, and that I know what you reveal and what you conceal?" (2:33)

That means all the concepts (Anger, Knowledge, and Love) has been set-up in our brain and we just need to ask the question so that we can link this with brain. We should value every thought.

He also urged students to ask questions as asking questions inspire the students to think on innovations and innovation starts then. Every people think from different aspects. Ever idea is correct from their point of view. He explained that our brain is much more powerful than a super computer.

SEMINAR ON
LEARN
HOW TO LEARN

Speaker:
Mr. Ayman Sadiq
CEO & Founder, 10 Minute School

Chair:
Dr. Mahmudul Hasan
Advisor, Daffodil International School

SESSION ANALYSIS:

Mr. Ayman Sadiq started his speech talking on "Facebook Like". He told the cheering crowd that Facebook Likes or Followers are not that important rather he shared some ideas:

1. **Live class in FB:** Everyone has their own talent. One can use them in FB live to teach others which may regard as 'Live Class'.

2. **Create Group:** In every friend circle, there is an outstanding and brilliant friend. Ask him/her to help you in the group by using live videos and help you to learn for the exams.

3. **Blood Group Post:** Give blood group to FB page. Sometimes it happens that we want to help others but cannot proceed because of our financial constraint. So, we can do something in a kind of charity through social network that does not require any direct financial support.

4. **Make authentic FB profile:** In present day, people or employer, sometimes, judge one's strength through FB page. So it is necessary to remain your FB up-to-date.

   Use your own profile picture at your FB page along with real or authentic status. You can do it by yourself.

Besides, you can find many related videos on YouTube. You have everything in your hand to use for better learning and its application. He also suggested to subscribe to YouTube Channel related to one's passion or need, such as "Valuetainment" is for the Entrepreneurs.

He tells, positive attitude can change a negative thing into good. Sometimes, we do Self-Fulfilling Prophecy- optimistic / pessimistic. If you think positively, one day you will reach your destination.

Q & A session:

Audience: : I have started taking online video classes in social media. What I need to do?

Mr. Ayman answered this question with advising for getting registered of the organization, and then he suggests searching for sponsorship. For this purpose he/she need to write proposal in such way so that both parties get benefitted

Audience: From where you get the idea of assessment in your video?

Mr. Ayman tells that he has received the idea from world renowned Khan Academy and from majortests.com; he gets the idea of how to design he assessment part from these two platforms

SEMINAR ON
ART OF INNOVATIVE TEACHING

Speaker:
Mr. Quazi M Ahmed
Lead Concultant, Future Leaders

Chair:
Prof. Dr. Hasanuzzaman
Dean, Engg, Tech Faculty, DU

Discussants:
Mr. Mosharrof Khan
Country Manager, IDP
Dr. Farhana Ferdousi
Associate Professor, East West University

SESSION ANALYSIS:

Mr. Quazi M.Ahmed lead consultant, future leaders was the keynote speaker in the session titled 'Art of Innovative Teaching', where Mr . Mosharraf Khan, country manager IDP, and Dr. Farhana Ferdousi were present as the discussants.

In this session, Mr Quazi shed some light on confidence building. He discussed on how learning can change human traits and behavior. He also emphasized Teachers should possess such qualities that everyone respect him/her for his/her traits. Regarding solving issues, teachers must discuss the problem with the students and try to encourage in finding out the best possible solution from the students. He also focused on the education system where practical knowledge needs to be adopted.

Mr Mosharraf Khan underlined the confidence level of our students, compared to foreign students where he pointed out the lack of practical knowledge based education. He also stressed on verbal and nonverbal communication on job filing. He also focused on and addressed the importance of using MS Excel in regular works at office

Dr. Ferdousi focused attention on ensuring students' participation in the classroom. Teachers ought to be kind hearted in nature and helpful and friendly as well with the students so that students hardly feel fair sharing anything with the teacher. Another important thing is the proper student-teacher relationship in the classroom environment. Here she also gave priority on the primary and basic education system at our secondary and higher secondary level of education. She concluded her speech by describing the importance of participatory engagement teaching.

PLENARY SESSION ON
INDUSTRY ACADEMIA RELATIONSHIP FOR INNOVATION

Speaker:
Prof. Dr. F A Sobhani
Dean, HRDI, DIU

Panelists:
Prof. Dr. Mahbuba Nasrin
IDMVS, University of Dhaka

Mr. Abu Taher Khan
Director, CDC, DIU

SESSION ANALYSIS:

The session was started with QA mode. In response to the question of the reasons behind non-performance of graduates in the job market, Prof. Dr. Mahbuba Nasrin: told that many students are not working in their relative field.. For example, someone completes his/her graduation in history but doing job in the banking sector. This is one of the key reasons for not being successful in job market.

Talking on demanding topic of Industry Academic Change, Mr. A. Q. M. Kibriya told, subject taught at our universities need to be upgraded according to the subject, taught at developed countries. In our country, it was found that everyone is interested to become a doctor (for example) but no one is intended to become nurse and do not consider the importance and necessities of becoming nurse. Academic development is needed in each subject related with the profession.

Mr. Abu Taher Khan told on industry academic change. In his session speech, he said, there is a gap between the academics and employers. Our employers are not getting professional graduates and graduates are also not getting their domain specific jobs. We should try to develop our students skillful, in light of existing and future demands. Parents should send their children to the academic institution where they can take preparation for their proper education with job market orientation.

Prof. Dr. F. A. Sobhani warned that depression exists among university students. He cited one of his experiences as: in one of his introductory classes, he asked his students that "How many of you are in depression?" At first 70-80% of the student raised hand but after few minute 90% of the students raised their hands. Then he feels the urgency to talk with those teachers who takes their class. Dr. Sobhani shared that he also found teachers are in depression. A depressed teacher cannot create anything positive for students.

Q & A Session:

Answering the question, "Why the gap is not decreasing, now we can see that many teacher's belong from industry but still there is a gap?", Prof. Dr. Mahbuba Nasrin tells with her experience that introducing any new subject or course, it takes time as there are many processes which needed to be complied with. Furthermore, it is difficult to meet demand of required people for jobs like in environment disaster task. She also stressed on focusing practical base education. She also pointed out that our students might be good in theory but they also need to know the practical facts in overcoming the existing challenges. She also suggested on introducing short term effective skill development course in HEIs.

Q: How to mitigate this gap?

In answering this question, Mr. A. Q. M. Kibriya, addressed the problem by stating that our guardians demanded from their children to complete graduation and masters without considering the market demand and skills. They should focus on equal concentration on academic learning and industry as well. He also showed the importance of introducing short term certification courses on different streams like marketing/ accounting. To mitigate the gap, 'Dialogue discussion' may become an important approach.

Q: How you relate this and Academic series?

Talking about Industry-Academia series, Mr. Abu Taher Khan told that it is a process or bridge to meet the gap between industry and academics. In this initiative, successful personalities and entrepreneurs inspire our students through sharing their success stories and encourage them for doing better He also told that we can create opportunities to become entrepreneur. Emphasizing the initiative, he stated students should learn theory (academia) in 8 semesters and 4 semesters should be allocated to or dedicated for receiving hands-on job experience.

He urges the industry people to come up with their requirements and skills, needed for their organization so that universities can tailor make their courses.

Q: Where are our innovative researches/ articles shifting?

Prof. Dr. Mahbuba Nasrin answered the question as: most of us conduct research for the sake of our promotion. We should make innovative research based on our challenges of the country and need to place before our policy maker to observe the reasons and solution of the challenges. Moreover, she also advised to maintain patent right and copyrights for paper/articles.

ROUND TABLE

INNOVATIVE
TEACHING & LEARNING:
THE WAY FORWARD

Moderator:
Capt. Musleh Uddin, PSC, BN (Retd.)
Principal, Bangladesh Navy College, Dhaka

Discussants:
**40 Principals and Headmasters
from different reknowned
Schools/Colleges**

SESSION ANALYSIS:

In this session, the speakers threw the question to the audience: "what is learning or what is teaching?". Teaching is an art, it is science. Innovation is also a part of teaching and learning process. The speakers also stressed on,

*...... how can we become innovative in classroom? .....
how can a teacher can be an effective teacher?*

A teaching can be an effective only when teacher with his/her innovative ideas. The assimilation of teacher through education is 10% with only conventional teaching method; it is 50% when teacher shows something related with the topic to the students and 80% when teachers give the students some related practical examples.

Outcomes of the Discussion:

1. Teaching and learning is very important and the main purpose of the method should focus on understandability of the student. To attain the objective, the role of the teachers, students as well as the environment is vital.. A teacher needs a comprehensive training and he should take complete preparation for his/her class.

2. The main innovation needs in progress of co-curricular activities. Discussion was made about effective domain, dogmatic domain and psychomotor domain. Selection process of Teachers' should focus on effectiveness. To inspire the students towards the innovation, the development process of professional skills of the teachers are crucial.

3. Guide books should be discouraged, sternly.

4. Government offers inclusive training to the teachers. But the teachers are indifferent towards changes. The teachers, who have the morality, give best teaching to the students.

5. Innovation is a continuous process. A teacher should be innovative in every sphere of the teaching-learning process. In some cases, solely, training is not solely enough to develop the skills of the teachers for teaching-learning process. A teacher should own their profession and should have determination in rendering quality education. Without dedication towards the profession, a teacher cannot be a good teacher, at all. Those who have no dedication towards this holistic profession, are referred as 'bad teacher. The session also stressed on the role of guardians who should also take some responsibilities in making and ensuring the conducive educational environment, by all stakeholders.

6. We should also work on building our capacity and strengths. A teacher should prepare his/her lesson plan in well documented forms, follow effective teaching methods, and formulate different types of assessment plan. Also (s)he should prepare the objectives of the course (in accordance with the course outline), announce the topic of the next class. In making the class interactive, the teachers should give the assignments to the students,related with practical examples.

7. Teachers should apply their training knowledge in classroom environment so that students get the benefit.

8. Addressing the less number of teachers in English and Mathematics, the speakers pointed out to raise the numbers of quality teachers, in these two important subjects.

9. Students should start practicing their communication in English language.

10. Teachers should motivate their students in receiving innovative teaching and learning methods.

11. The discussion also emphasized on evolving necessity of Participatory Engaging Teaching (PET) in Higher Education Institute (HEI). The teachers need such training which shall facilitate the relationship of teacher-student and come up with effective and positive result. For facilitating student interaction with blended education, 'Google Classroom' is a good option.

12. There should be a certification system on providing training to the teacher which need to be initiated by the government and it should be a mandatory program for all teachers.

PROJECT TITLE: **OXO MASK**
Supervisor's Name: **Md. Omor Faruq**
Other Members : **Md.Shahriar Alam** and **Bayzid Khan**
Institute: **Dhaka Residential Model College**

We know that if we win below the water, we have to take oxygen cylinders. Which is very expensive to use cylinders without proper training and also dangerous.Those who do research at oceanography also have to stay for a long time, but they are back in the cylinders for the limitation of oxygen.

There is a solution.I create a mask that will make oxygen from the water instead of the oxygen cylinder, even without any batteries and chemical reactions.There are many animals living in the water that survives by accepting oxygen from the water.As a model, we can present the fish gills system. With the help of the gills, the fish accepts oxygen from the water. This device is based on this gullet formula."If oxygen is available from the water, why would we carry extra oxygen cylinders?"

My device is named "Oxo Mask".The mask will have two-fold parts in the right and left. In this section, artificial gills will be formatted. These artificial gills will be made by a semi-permeable membrane that can be made through nanotechnology and biotechnology. This will be transmitted in the process of separation of the oxygen when the masked person receives oxygen.Masks will create air vacuum. It will continue to supply oxygen. It will not damage the environment.

PROJECT TITLE: **THE ANYWAY TUNNEL**
Supervisor's Name: **Subir Chandra Gope**
Other Members : **Mashrur Ahmed**
Institute: **Saint Joseph Higher Secondary School**

The project is simply a innovative idea which can be turned to reality. It is a teletransportation device which can transfer a person or an objects anywhere anybody want.

HIGHLIGHTS ON
INNOVATIVE TEACHING METHOD

The biggest challenge any teacher faces is capturing the students' attention, and putting across ideas in such a way that it stays with them long after they have left the classroom. For this to happen, classroom experience should be redefined and innovative ideas that make teaching methods more effective should be implemented. So here are some innovative ideas that will help teachers reinvent their teaching methods and make their classes interesting.

Incorporate audio-visual materials in your sessions. Supplement textbooks with models, filmstrips, movies and pictorial material. Use info graphics or other mind mapping and brain mapping tools that will help their imagination thrive and grow. These methods will not only develop their ability to listen, but will also help them understand the concepts better.

For example, you can get some oral history materials, conduct live online discussions or playback recordings of public lectures. There are a lot of smart apps for preschoolers that you can utilize to create awesome slideshows or presentations

Link your lessons to real world learning. Infusing real world experiences into your instructions will make teaching moments fresh and enrich classroom learning. Relating and demonstrating through real life situations, will make the material easy to understand and easy to learn. It will spark their interest and get the children excited and involved. You can make use of smart apps for preschoolers to make these sessions all the more interesting.

CHAMPION

LATHIFA AKTAR SHEULEE
Dalnia I. A. High School

RUNNER-UP

DR. MD. SHAH ALAM MAJUMDER
Bangladesh Technical Education Board

My teaching methodology is innovative because I always go to the class with preplanned lesson/session plan incorporating the learning domain and level of learning expectation (Cognitive, psycho-motor, Affective) and other pedagogical aspect of learning and teaching in my teaching learning activities with some innovative strategies. The strategies I usually uses in my class are -

• Enter to the class in time and finish the session within the schedule time.

• Start the class mentioning a relevant natural incident / occurrence / events / past experience /story which is best fitted with the topics

• Declare that the topic is very easy to understand so that the student feel that could be possible to learn or do easily

• Present and keep myself very simple, smile and friendly in classroom maintaining my professional personality

• Deliver my PPT presentation appending drawing / images, graphics with animation / video and including related presentation / interesting information through hyperlink so that when necessary it can be shown as an example or reference

• Encouraging the students to ask relevant questions for better understanding and keep the class live

Innovative
Teaching & Learning
EXPO

2018

Tentative Date
25 - 26 October, 2018