

Souvenir

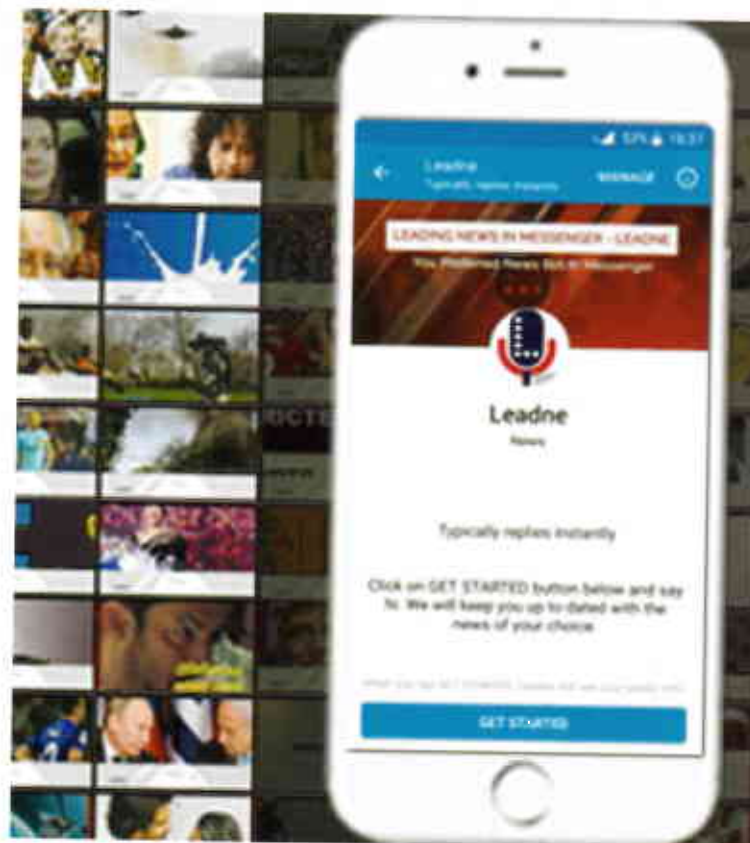


TECH FEST 2017

20-21 December, 2017



Organized by: Faculty of Science and Engineering
International Islamic University Chittagong



SAY HI or GET STARTED
Leadne | Your Preferred News Bot



News



Live



Leadne News

Available in



Facebook Messenger

m.me/leadne

© Copyrighted 2018 | Logic and Thoughts



BOOOTV

First Ever Edutainment
 Channel for Bangladeshi Kids

COMING SOON



App Store

Google play

Windows Phone Store



© Copyrighted 2018 | Logic and Thoughts

Souvenir

TECH FEST (2003-2017)



[তুমি কি দেখোনা আল্লাহ মেঘমালাকে ধীর গতিতে সঞ্চালন করেন, তারপর তার খন্ডগুলোকে পরস্পর সংযুক্ত করেন, তারপর তাকে একত্র করে একটি ঘন মেঘমালায় পরিণত করেন, তারপর তুমি দেখতে পাও তার খোল থেকে বৃষ্টি বিন্দু একাধারে ঝরে পড়ছে। আর তিনি আকাশ থেকে তার মধ্যে সমুন্নত পাহাড়গুলির বদৌলতে শিলা বর্ষন করেন, তারপর যাকে চান এর দ্বারা ক্ষতিগ্রস্ত করেন এবং যাকে চান তা থেকে রক্ষা করেন। তার বিদ্যুৎচমক চোখ ধাঁধিয়ে দেয়। (২৪:৪৩)]



Faculty of Science and Engineering
International Islamic University Chittagong



TECH FEST 2017

Souvenir

20-21 December 2017
Chittagong, Bangladesh

Organized by

Faculty of Science & Engineering
International Islamic University Chittagong, Bangladesh

Advisor

Prof. Dr. Md. Delawer Hossain
Prof. Dr. Md. Monirul Islam
Mr. Mohammed Shamsul Alam
Dr. Mohammed Aktar Sayeed

Editor

A.N.M. Rezaul Karim, Associate Professor, CSE

Members

Mr. Muhammad Azizul Hoque, Assistant Professor, ELL
Mr. Faisal Bin Al Abid, Assistant Professor, CSE
Mr. Kazi Ashfak Ahmed Chowdhury, Assistant Professor, Pharmacy
Mr. A.B.M. Yasir Arafat, Lecturer, CSE
Mr. Abu Zafar Md. Imran, Lecturer, ETE
Mr. Md. Mubarak Hossain, Lecturer, EEE
Muhammad Kamrul Hossain Patwary, Lecturer, CSE
Ms. Israt Binteh Habib, Assistant Lecturer, CSE

Design & Print



01819385745, 01717146654
adhometg@yahoo.com

Published by

Publication Committee, Tech Fest-2017

Date of Publication

25th February 2018



Editorial



At the very outset, I would like to express my heartfelt gratitude to Almighty Allah (SWT) who has enabled us to publish a souvenir of Tech Fest-2017 held on 20 and 21 December, 2017.

For the 1st time a Souvenir was published on the occasion of IT Enlightenment Week 2003 which was organized with the initiative of the Computer Club, Department of Computer Science & Engineering, IIUC in a small scale. For the 2nd time a Souvenir was published on the occasion of IBBL IIUC IT Festival 2011 which was organized with the initiative of the Computer Club, Department of Computer Science & Engineering, IIUC. The 3rd Souvenir was published on the occasion of Tech Fest 2014 which was held by the Faculty of Science & Engineering, IIUC on a large scale where 1000 participants participated. The 4th Souvenir was published on the occasion of Tech Fest 2015 which was held by the same Faculty. The current Souvenir is going to be published on the occasion of Tech Fest 2017 where 1500 participants participated.

The contents of the souvenir are initiated with the messages from dignitaries succeeding write-ups of the faculty members, background of the Tech Fest, overview of the departments, articles, list of faculty members, club executives, the organizing committee, the list of winners, and Album etc.

The souvenir is a quest to keep the memories of Tech Fest-2017 alive in the minds of the faculty members, students, participants, media partners and well-wishers around us. I believe that the souvenir is like a mirror which reflects the comprehensive education system at IIUC with creative co-curricular activities besides its academic programs.

I would like to extend my ardent gratitude to all those who have contributed sincerely in various ways to make the publication successful. Despite our all-out care, there might remain some printing mistakes. I apologize if anything happens so.

May Allah accept our efforts and give us the best rewards here and hereafter.

A.N.M. Rezaul Karim

Associate Professor
Dept of Computer Science & Engineering
International Islamic University Chittagong

Tech Fest 2017

Tech Fest 2017
20-21 December 2017

Chief Patron

Professor K. M. Golam Muhiuddin
Vice-Chancellor
International Islamic University Chittagong

Patron

A.N.M. Shamsul Islam
Chairman
Board of Trustees, IIUC

Organizing Committee

Professor Dr. Md. Delawer Hossain, Pro-VC (In charge), IIUC	Advisor
Professor Dr. Md. Monirul Islam, Dean, FSE	Convener
Mr. Mohammed Shamsul Alam, Associate Professor, CSE	Co-convener
Mr. Md. Mahadi Hassan, Associate Professor & Chairman, CSE	Member
Mr. A. N. M. Rezaul Karim, Associate Professor, CSE	Member
Mr. Tanveer Ahsan, Associate Professor, CSE	Member
Mr. A K M Masum, Associate Professor, CSE	Member
Mr. Shahidul Islam Khan, Associate Professor, CSE	Member
Mr. Md. Mahiuddin, Assistant Professor, CSE	Member
Mr. Shayhan Ameen Chowdhury, Lecturer, CSE	Member
Mr. Muhammad Athar Uddin, Associate Professor & Chairman EEE	Member
Dr. Mohammad Shamimul Haque Chowdhury, Associate Professor, EEE	Member
Mr. Sk. Md. Golam Mostafa, Assistant Professor, EEE	Member
Mr. Md. Abdul Kader, Assistant Professor, EEE	Member
Mr. Sayed Allamah Iqbal, Assistant Professor, EEE	Member
Mr. Abdul Gafur, Assistant Professor & Chairman, ETE	Member
Mr. Mohammad Ismail Chowdhury, Supernumerary Professor, ETE	Member
Mr. Md. Razu Ahmed, Associate Professor, ETE	Member
Mr. Md. Jashim Uddin, Assistant Professor, ETE	Member
Mr. Md. Mostafa Amir Faisal, Assistant Professor, ETE	Member
Mr. Md. Masudur Rahman, Assistant Professor & Chairman, Pharmacy	Member
Dr. Mir Ezharul Hossain, Professor, Pharmacy	Member
Mr. Mohammed Abu Sayeed, Associate Professor, Pharmacy	Member
Mr. Md. Sekendar Ali, Assistant Professor, Pharmacy	Member
Mr. Syed Md. Tareq, Assistant Professor, Pharmacy	Member
Dr. Mohammed Aktar Sayeed, Associate Professor, Pharmacy - Member Secretary	

Inaugural Ceremony

Date:	December 20, 2017
Venue:	IIUC Auditorium
Chief Guest:	Professor KM Golam Muhiuddin Vice Chancellor, IIUC
Special Guest:	Professor Ahsan Ullah Chairman of Finance Committee, IIUC
Guest of Honor:	Prof. Dr. Nowshad Amin National University of Malaysia
Chairman:	Professor Dr. Md. Delawer Hossain Pro VC, IIUC

Prize Giving Ceremony

Date:	December 21, 2017
Venue:	IIUC Auditorium
Chief Guest:	Professor Dr. M. Shamsher Ali Professor Emeritus, Southeast University
Special Guest:	Md. Abu Taher Managing Director, Automation Group of Companies Dr. Kazi Deen Mohammed Vice Chairman, IUC Trust
Chairman:	Professor Dr. Md. Delawer Hossain Pro VC, IIUC

Events

- ▶ Seminar on Cyber Security
- ▶ Tech Olympiad
- ▶ Poster Presentation Competition
- ▶ Hackathon, Software & App Development Competition
- ▶ Cyber Gaming Contest
- ▶ IIUC Inter University Programming Contest (Mock)
- ▶ Free Blood Grouping
- ▶ IIUC Inter University Programming Contest
- ▶ Inter University Idea Generation Competition
- ▶ Medicinal Plant Show Competition
- ▶ Inter University Project Show Competition
- ▶ Inter University Robo Fight Competition

Chief Guest

Prize Giving Ceremony, Tech Fest 2017



I feel delighted to offer my heartiest gratitude to the Faculty of science & Engineering of International Islamic University Chittagong (IIUC) for its successful accomplishment of Tech Fest-2017 which attracted students from different universities in and around Chittagong to compete on a big scale and showcase their technical expertise and latent talents through interaction, sharing and discussing the latest happenings in the field of science and engineering. I am also happy to know that a Souvenir is going to be published afterwards.

Together with people of various universities around Chittagong, I believe Tech Fest 2017 offered such a platform where humans & technology met to identify ways to drive innovation in the field of science, technology and Engineering. Therefore, I would like to congratulate the Faculty of Science & Engineering on shouldering such an event and hope that it will continue in the days to come.

I am, indeed, thankful to the organizer for giving me the opportunity to be a part of the event.

I wish continued success and prosperity of Souvenir publication following the celebration of Tech Fest 2017.

Professor Dr. Mohammad Shamsheer Ali

Professor Emeritus, Southeast University
Former President, Bangladesh Academy of Sciences
Former Founding Vice-Chancellor, Southeast University
Former Founding Vice-Chancellor, Bangladesh Open University

Message



I am pleased to know that the Faculty of Science & Engineering of International Islamic University Chittagong (IIUC) has successfully accomplished its Tech Fest-2017 which brought students together from different universities in and around Chittagong. I am also happy to learn that a Souvenir is going to be published on the completion of the occasion.

Tech Fest is a big event where participants get opportunity to mingle with so many talented youths in a single episode to exchange youthful views, discover and sharpen latent talents and show their technical expertise.

I believe this festival will be a big platform, particularly for the students of science and engineering, to proliferate their latent intellect by participating in various scientific and technological events which will surely open up the doors of advanced knowledge to meet the ever changing demand of the era.

I would like to congratulate the concerned faculty members and students on shouldering such a noble effort and also I congratulate the Faculty of Science & Engineering of IIUC for organizing the festival. I wish the Festival and the publication of Souvenir a grand success.

Professor K.M. Golam Muhiuddin

Vice-Chancellor

International Islamic University Chittagong



I feel delighted to know that the Faculty of Science and Engineering of International Islamic University Chittagong is going to publish a souvenir on the occasion of Techfest-2017. Undoubtedly, the souvenir will bear a testimony of the great event.

My contentment elevated even further when I came to know that the TechFest reached outside the boundary of IIUC. In fact, competitors from several universities of Chittagong participated in different events. It is surely a phenomenal achievement for the university.

TechFest is probably the greatest platform for undergraduate students in the university to proliferate their inherent intellect. By participating in various technological events, students expedite the development of different areas of science and technology. Such advanced knowledge will surely help the students meet the future demand of competent manpower for the development of the country.

I congratulate Faculty of Science and Engineering for successfully organizing such a big event and hope that it will continue in the coming years in an even larger scale.

A.N.M Shamsul Islam

Chairman, Board of Trustees,
International Islamic University Chittagong

Message



I am glad to learn that the Faculty of Science and Engineering of International Islamic University Chittagong (IUC) has completed its Tech Fest 2017 in a befitting manner. It is also gratifying to note that a souvenir is going to be published to mark this event.

In an occasion like this various competitions, exhibitions, lectures as well as workshops are arranged. I am certain that such Tech Fest gives ample opportunities to the participants and contestants to mingle with so many talented youths, to exchange views, discover and sharpen their talents and show their capabilities in the technical and oratory skills that are desired to be required in this digital era.

I congratulate the concerned faculty and students who contributed to arrange such a successful and useful event.

I wish the Souvenir being published to be worthy of praise by everyone.

Prof. Dr. A.K.M. Azharul Islam *F.Inst.P, C.Phys (Lond), FBAS*
Former Vice-Chancellor
International Islamic University Chittagong



Message



It gives me immense pleasure to know that the **Faculty of Science and Engineering (FS&E)** going to publish a souvenir on **Tech Fest-2017**. In this regard, at first I express my wholehearted gratitude to Almighty Allah Subhanahu wata'ala for His kind blessings for the successful completion of this Tech Fest. It is my great pleasure to offer the heartiest thanks to IIUC authority, all the members of Organizing Committee and Sub-Committees of **Tech Fest-2017** all teachers and club members of FS&E, students of IIUC for their active cooperation, spontaneous support and sincere effort for the success of **Tech Fest 2017** (Alhamdulillah). **Tech Fest** is known for hosting a variety of events that include competitions, exhibitions, lectures as well as workshops. The aim of this Tech Fest was to celebrate and promote education and research in the fields of science and engineering at IIUC. It helps the students to develop technical excellence, team spirit and focused mind setup. I urge interested and prospective students to find out more.

As per decision of 36th Academic Council Meeting held on April 15, 2017, the **Outcome Based Education (OBE)** has been implemented in the academic programs of IIUC since autumn -2017 Semester. OBE is an approach of curriculum design and teaching that focuses on what students should be able to do at the end of course /program. Outcome is a culminating demonstration of learning. Demonstration- meant that learners would actually do something visible, and observable. So Tech-Fest gives the opportunity to the students of FS&E to demonstrate their skill & competence and encourage **all students to achieve those essential outcomes**. So, students of FS&E should take part in Tech-Fest every year to show their knowledge and Skills. Who knows, it might encourage you to boldly go where you've never gone before. I congratulate all students taken part in this program.

Prof. Dr. Md. Delawer Hossain

Pro Vice-Chancellor (In-Charge) &
Professor, EEE, FS&E
International Islamic University of Chittagong.



Message

Special Guest

Inaugural Ceremony, Tech Fest 2017



Assalamualaikum/Greetings.

It is a really a matter of grand happiness that the Faculty of Science & Engineering of International Islamic University Chittagong (IIUC) is going to publish a Souvenir followed by its successful completion of Tech Fest-2017, which measured great success with the participation of the enthusiastic students from different universities around Chittagong to compete on technical expertise as well as to expose their latent intelligence.

Needless to say, Tech Fest is certainly a good platform to find innovative ways to leverage technology and the talents are definitely enthusiastic to apply their skills to change the planet earth to an ever-flourishing one. I believe, in conjunction with students from various universities around Chittagong, Tech Fest 2017 opened up such a platform where various issues of science, technology and engineering were discussed through participants' interaction, sharing and discussion. Therefore, I would like to appreciate the enormous effort the Faculty of Science & Engineering took to arrange such an event and also hope that it will continue in coming years.

I would acknowledge the organizer's generosity to let me be a part of the festival to encourage all who participated spontaneously.

Last but not least, I wish every success in publishing the souvenir following the celebration of the Tech Fest 2017.

Professor Dr. Nowshad Amin

Professor of Renewable Energy and Solar Photovoltaics,
Institute of Sustainable Energy,
Universiti Tenaga Nasional (National Energy University)
Malaysia.

Message



I am happy to know that the Faculty of Science & Engineering, International Islamic University Chittagong (IIUC) is going to publish a Souvenir after its successful completion of Tech Fest-2017. I would like to express my sincere gratitude to Allah (SWT) who has enabled us to complete the event successfully and also like to take the opportunity to say thanks to IIUC authority, all the members of organizing committee, sub-committee, all teachers of FSE, valued sponsors, club executives, student volunteers, all students of FSE, directors, officers and staff of IIUC for their active cooperation, spontaneous support and sincere effort for the successful completion of Tech Fest 2017.

Tech Fest is a bi-annual festival for hosting variety of events like Programming contest, Cyber games contest, Tech Olympiad, Hackathon, Robo fight, Project showcase, Idea generation, Poster presentation, Medicinal plant show, Seminar etc. Tech Fest aims to nurture and share knowledge among students especially in Chittagong region to discover their creativity and innovations in the field of science, engineering and technology in a festive mood.

I would like to congratulate all the winners and participants of the different events to make the Tech fest 2017 successful.

Professor Dr. Md. Monirul Islam

Dean, Faculty of Science and Engineering
Convener, Organizing Committee of Tech Fest 2017
International Islamic University Chittagong (IIUC)

Message



First of all, I would like to express my deepest gratitude to Almighty Allah for the successful completion of TECH FEST 2017.

Celebrating the TECH FEST gives an opportunity for the students of faculty of Science & Engineering to meet each other. It also gives the members a platform to showcase and demonstrate their talents in Engineering & Technology. Further, publishing the articles by the members & learners in the souvenir definitely give them an opportunity to think and write about their creative best.

My sincere thanks and appreciation to all the members of the organizing committee and the sub-committees for their sincere efforts and enthusiasm to make our TECH FEST 2017 a grand success. This was not possible without the team work of our members and support of our management. I express my heartfelt thanks to the sponsors and the management of IIUC.

I am confident that the Faculty of Science & Engineering, IIUC will continue its efforts and advance its successful journey in the years to come.

Mohammed Shamsul Alam

Associate Professor
Dept. of Computer Science & Engineering, IIUC
& Co-convener, Tech Fest 2017



I am happy to welcome you to our grand Fest titled as "Tech Fest 2017". It is a great pleasure for us that all the members of Faculty of Science & Engineering of International Islamic University Chittagong (IIUC) have organized 3rd "TECH FEST" and now consequently we are going to publish a souvenir on the eve of "Tech Fest 2017". This is indeed a creative academic venture for students as well as teachers of the faculty of Science & Engineering to gather ideas, knowledge and thoughts in a new dimension.

We are really grateful to Honorable Vice-Chancellor Professor K. M. Golam Muhiuddin for his encouraging support all the time. We are also grateful to our Honorable Pro Vice-Chancellor Professor Dr. Md. Delawer Hossain for his kind cooperation at the very moment of this festival. We are also grateful to Honorable Dean, Professor Dr. Md. Monirul Islam, for his kind cooperation at all time. We extend our thanks and appreciation to all the officials and authority of IIUC for taking the necessary measures to publish this souvenir on the occasion of 3rd Tech Fest 2017. We are also grateful to our colleagues who have contributed from the very beginning to the success of this fest and all participants and judges from other Universities who are always encouraging us in making the program a success.

I do strongly hope that this Festival will play a meaningful role in reaching the goal of digital Bangladesh.

May Allah (SWT) accept our endeavors and efforts.

Dr. Mohammed Aktar Sayeed

Associate Professor, Department of Pharmacy &
Member Secretary, Tech Fest 2017.



- Future is Exciting
and Unpredictable

A.K.M. Azharul Islam

Former Vice Chancellor, International Islamic University Chittagong

Overview

- Evolution of Communication
- Internet and WWW
- Birth of WWW – Global Information Superhighway
- Are the Internet and the WWW same thing?
- Web page, Website and Web Server
- How the Web Works?
- Web Hosting Service
- Total Websites and Internet Users
- Why did the Web succeed?
- Trillion \$ Commerce with WWW
- Web Morality
- Future of WWW - Challenges Acknowledgements

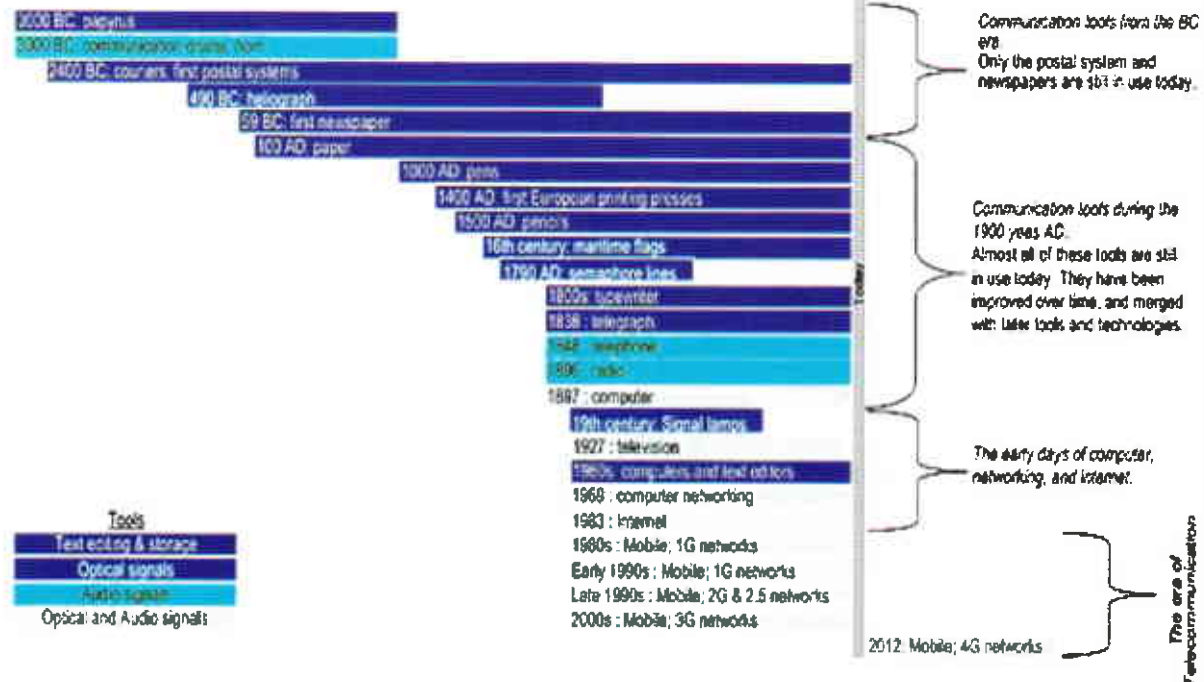
1. Evolution of Communication

The World Wide Web (or WWW) has become pretty well-known now-a-days. Even during the period of initial Internet days nobody heard about it but now it is there and it appears that we cannot live without it. Up till now the web is the latest tool for communication, e-commerce - buying and selling of goods and services, transmitting of funds and data, and what not?

Our world-view has expanded through many scientific inventions. At the same time, the earth seems smaller than it did to the Romans. Communication has existed in various forms since man appeared on Earth. What began as primitive cave paintings and signed language has slowly changed into an endless variety of ways to express oneself to other humans. The following diagrams and picture will tell us all about these.

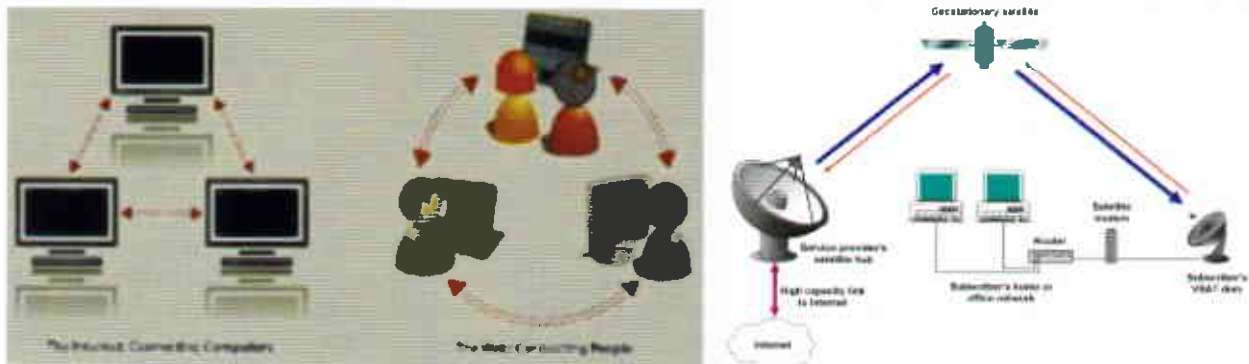


Timeline of Communication tools



2. Internet and WWW

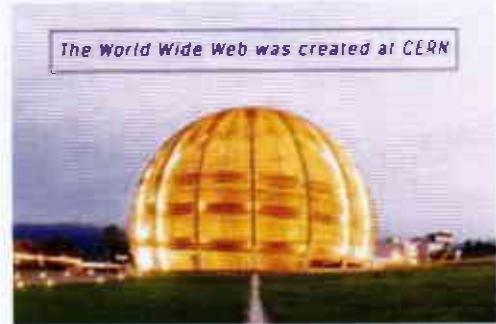
The original Internet was invented in 1967 for military purposes. An Internet in its most basic form is simply a group of computers able to connect to each other and share information. This included electronic mail (email) and the use of sites containing vital information (websites). Once the Internet started to catch on it was used primarily by corporations for collaboration purposes. Today the Internet is available everywhere and to everyone (<https://www.creativeDisplaysnow.com/articles/history-of-communication-from-cave-drawings-to-the-web/>)



The first workable prototype of the Internet came in the late 1960s with the creation of ARPANET, or the Advanced Research Projects Agency Network. Originally funded by the U.S. Department of Defense, ARPANET used packet switching to allow multiple computers to communicate on a single network. The technology continued to grow in the 1970s after scientists Robert Kahn and Vinton Cerf developed Transmission Control Protocol and Internet Protocol, or TCP/IP, a communications model that set standards for how data could be transmitted between multiple networks. ARPANET adopted TCP/IP on January 1, 1983, and from there researchers began to assemble the "network of networks" that became the modern Internet.

3. Birth of WWW - Global Information Superhighway

The birth of WWW was at CERN (Conseil Européen pour la Recherche Nucléaire, or European Council for Nuclear Research). Founded in 1954, CERN Laboratory is at the Franco-Swiss border near Geneva. It was one of Europe's first joint ventures and now has 22 member states. It is one of the world's largest and most respected centres for scientific research. Its business is fundamental physics, finding out what the Universe is made of and how it works. At CERN, the world's largest and most complex scientific instruments are used to study the basic constituents of matter — the fundamental particles. Physicists learn about the laws of Nature by studying what happens when these particles collide.



In the 1980s, the thousands of physicists at CERN Particle Physics Lab (Geneva) needed a better way to exchange information with their colleagues working in different universities and institutes all over the world. Tim Berners-Lee, a graduate from Oxford University with first class Honors in Physics, invented the WWW at CERN in 1990 to meet this demand.

Between 1990 and 1993, the Web was mostly used by scientists to collaborate their research. In 1993 it began to spread to the rest of the world. Now there are billions of websites and users. Much of the e-commerce is done over the WWW. Over a trillion dollars worth of commerce takes place over the Internet every year! What began as a better way for physicists to manage information and communicate - the WWW is now a vast "Global Information Superhighway."

In March 1989, Tim Berners-Lee wrote a proposal that described the Web as an elaborate information management system. With help from Robert Cailliau, he published a more formal proposal for the World Wide Web on November 12, 1990. By Christmas 1990, Berners-Lee had built all the tools necessary for a working Web:

- ◆ the first web browser (which was a web editor as well),
- ◆ the first web server, and
- ◆ the first Web pages which described the project itself.

On August 6, 1991, he posted a short summary of the World Wide Web project on the alt.hypertext newsgroup. This date also marked the debut of the Web as a publicly available service on the Internet.

Berners-Lee's breakthrough was to integrate hypertext to the Internet. In his book *Weaving The Web*, he explains that he had repeatedly suggested that a marriage between the two technologies was possible to members of both technical communities, but when no one took up his invitation, he finally tackled the project himself. In the process, he developed a system of globally unique identifiers for resources on the Web and elsewhere: the Uniform Resource Identifier (URL).

The World Wide Web had a number of differences from other hypertext systems that were then available. The Web required only unidirectional links rather than bidirectional ones. This made it possible for someone to link to another resource without action by the owner of that resource. It also significantly reduced the difficulty of implementing web servers and browsers (in comparison to earlier systems), but in turn presented the chronic problem of link rot. (Link rot is the process by which hyperlinks on individual websites or the Internet in general point to web pages, servers or other resources that have become permanently unavailable. The phrase also describes the effects of failing to update out-of-date web pages that clutter search engine results).

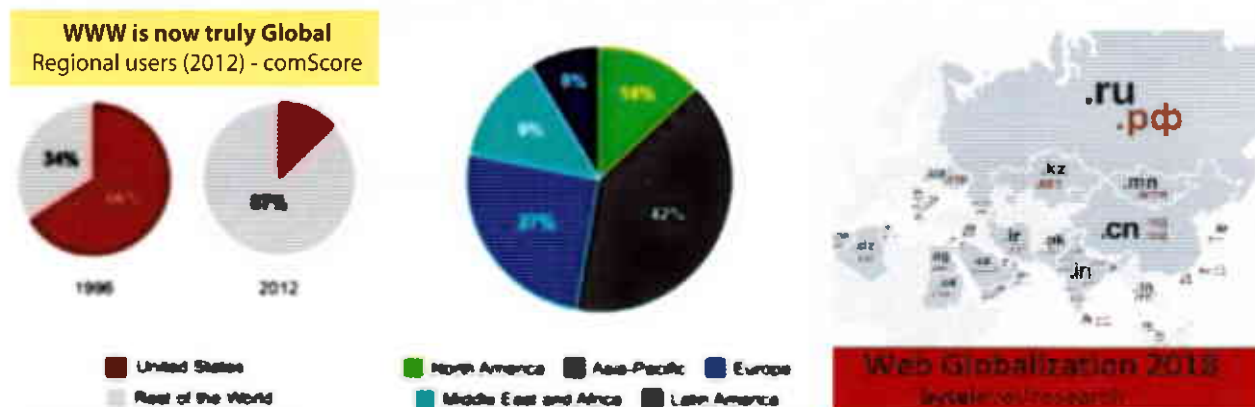
An early WWW system was released in 1991 to the high energy physics community via the CERN program library. It included the simple browser, web server software and a library, implementing the essential functions for developers to build their own software. A wide range of universities and research laboratories started to use it. A little later it was made generally available via the Internet, especially to the community of people working on hypertext systems.

The World Wide Web, unlike predecessors such as HyperCard, was non-proprietary, making it possible to develop servers and clients independently and to add extensions without licensing restrictions. For more details visit [The History of the World Wide Web](#).

How the web began: The first web servers were all located in European physics laboratories and only a few users had access to the NeXT platform on which the first browser ran. CERN soon provided a much simpler browser, which could be run on any system.

Going Global: The first web server in the United States came on-line in December 1991, once again in a pure research institute called Stanford Linear Accelerator Center (SLAC) in California.

At this stage, there were essentially only two kinds of browser. One was the original development version, very sophisticated but only available on the NeXT machines. The other was the 'line-mode' browser, which was easy to install and run on any platform but limited in power and user-friendliness. It was clear that the small team at CERN could not do all the work needed to develop the system further, so Berners-Lee launched a plea via the Internet for other developers to join in.



The browsers mostly for the X-window system were written by several individuals. The most notable from this era include MIDAS by Tony Johnson from SLAC, Viola by Pei Wei from O'Reilly, Erwise by the Finns from the Helsinki University of Technology.

Early in 1993, the National Center for Supercomputing Applications (NCSA) at the University of Illinois released a first version of their Mosaic browser. This software ran in the X Window System environment, popular in the research community, and offered friendly window-based interaction. Shortly afterwards the NCSA released versions also for the PC and Macintosh environments. The existence of reliable user-friendly browsers on these popular computers had an immediate impact on the spread of the WWW. The European Commission approved its first web project (WISE) at the end of the same year, with CERN as one of the partners.

There were more than 500 known web servers by late 1993. The WWW accounted for 1% of Internet traffic, which seemed a lot in those days! (The rest was remote access, e-mail and file transfer.) 1994 really was the 'Year of the Web'. The world's First International World Wide Web conference was held at CERN in May. It was attended by 400 users and developers, and was hailed as the 'Woodstock of the Web'. As 1994 progressed, the Web stories got into all the media. A second conference, attended by 1300 people, was held in the US in October, organised by the NCSA and the already created the International WWW Conference Committee (IW3C2).

The Web by the end of 1994 had 10,000 servers, of which 2,000 were commercial, and 10 million users. Traffic was then equivalent to shipping the entire collected works of Shakespeare every second. The technology was continually extended to cater for new needs. Security and tools for e-commerce were the most important features soon to be added.

Open Standards: An essential point was that the Web should remain an open standard for all to use and that no-one should lock it up into a proprietary system. The International World Wide Web Consortium (W3C) was founded in January 1995 'to lead the World Wide Web to its full potential by developing common protocols that promote its evolution and ensure its interoperability'. By 2007 W3C, run jointly by MIT/LCS in the US, INRIA in France, and Keio University in Japan, had more than 430 member organizations from around the world.

4. Are the Internet and the Web same thing?

The Internet and the World Wide Web (or simply the Web), though used interchangeably, are not synonymous. Internet is the hardware part - it is a collection of computer networks connected through either copper wires, fiber-optic cables or wireless connections whereas, the World Wide Web can be termed as the software part - it is a collection of web pages connected through hyperlinks and URLs. In short, the World Wide Web is one of the services provided by the Internet. Other services over the Internet include e-mail, chat and file transfer services. All of these services can be provided to consumers for use by businesses or government or by individuals creating their own networks or platforms.

There is another way to differentiate between these two is considering the Protocol Suite - a collection of laws & regulations that govern the Internet. While internet is governed by the Internet Protocol - specifically dealing with data as whole and their transmission in packets, the World Wide Web is governed by the Hyper Text Transfer Protocol (HTTP) that deals with the linking of files, documents and other resources of the World Wide Web.

Comparison Chart

	Internet	World Wide Web
Year of Origin	1969 (opening to commercial interests began only in 1988)	1993
first version	ARPANET	NSFnet
Comprises	Network of Computers, copper wires, fibre-optic cables & wireless networks	Files, folders & documents stored in various computers
Governed by	Internet Protocol	Hyper Text Transfer Protocol
Dependency	This is the base, independent of the World Wide Web	It depends on Internet to work
Nature	Hardware	Software

5. Webpage, Website and Web Server

A web page is a document that is suitable for the World Wide Web and web browsers. A web browser displays a web page on a monitor or mobile device. The web page is what displays, but the term also refers to a computer file, usually written in HTML (HyperText Markup Language) or comparable markup language. Web browsers coordinate the various web resource elements for the written web page, such as style sheets, scripts, and images, to present the web page. Well-known web browsers are: Google Chrome, Internet Explorer, Mozilla Firefox, Safari, etc. The Indexed World Web contains at least 4.52 billion pages (27 March, 2018).

A website is a collection of related web pages, including multimedia content, typically identified with a common domain name (for example, 'http://wikipedia.org/wiki/Website' is a single web page and is identified by its domain name 'Wikipedia'), and published on at least one web server. A web site may be accessible via a public Internet Protocol (IP) network, such as the Internet, or a private local area network (LAN), by referencing a uniform resource locator (URL) that identifies the site. Also, a website can offer many more options such as login/register page (web page with a login or registration form in it), about page, contact page etc.

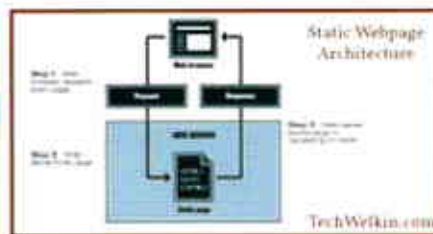
A website is a combination of web pages. It comprises of different menus related to the products, about the company, staff, company history, videos and images, programs, etc.

A Web server refers to server software, or hardware dedicated to running said software, that can serve contents to the World Wide Web. A Web server processes incoming network requests over the HTTP protocol (and several other related protocols).

6. How the Web Works?

The Web is a world of information available at the click of a mouse. To use it, you need a computer, a connection to the Internet, and a browser. When you run your browser, it finds and displays pages of information. The function of a Web browser is to interpret the programming language of the web pages (HTML, ...) and transform it into the words and graphics that you see on your screen. If you need more information, all you have to do is click on a hyperlink. On each page, certain words, phrases, or even images are highlighted, and clicking on them causes the browser to go off and find another page, which probably contains more highlighted items, and so on.

The so-called server computers stored documents. Users can inspect these documents by requesting them from their local (personal) computers, represented by the house, and called a client. All computers involved in the Web are connected by the Internet, represented by the roads. When you click on a hyperlink, your computer asks a server computer to return to you a document. For example, starting from the CERN 'Welcome page' in Switzerland your next click might fetch a document from a physics lab at the other side of the world. All the information seems to be in the little box in front of you, though in reality it is spread over the globe.



The Web is also friendly to the network: when you click on a piece of highlighted text your browser 'orders a document' from another computer, receives it by 'return mail' and displays it. You are then free to read the new page at leisure, without further consumption of network resources.

The Web may be used to initiate processes on either the client or the server. A request can start a database search on a server, returning a synthesised document. A document returned in an unfamiliar format can cause the browser to start a process on the client machine in order to interpret it.

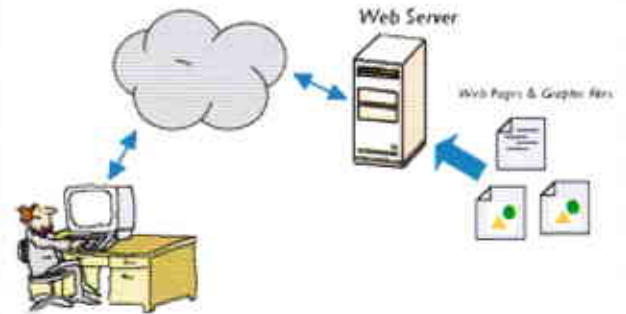
The Web's ability to negotiate formats between client and server makes it possible to ship any type of document from a server to a client, provided the client has the appropriate software to handle that format. This makes video, sound and anything else accessible without the need for a single application to be able to interpret everything.

7. Web Hosting Service

A web hosting service is a type of Internet hosting service that allows individuals and organizations to make their website accessible via the World Wide Web. Web hosts are companies that provide space on a server owned or leased for use by clients, as well as providing Internet connectivity, typically in a data center. Web hosts can also provide data center space and connectivity to the Internet for other servers located in their data center, called colocation, also known as Housing in Latin America or France.



A rack mounted server (Wiki)



When Internet users want to view your website, all they need to do is type your website address or domain into their browser. Their computer will then connect to your server and your webpages will be delivered to them through the browser.

Most hosting companies require that you own your domain in order to host with them. If you do not have a domain, the hosting companies will help you purchase one. If you decide to create and host your website with Website.com, you can get a custom domain, email addresses, and web hosting all bundled into one subscription.

8. Total Websites and Internet Users

The total number Websites year-wise is given in the table below. It is observed that the website is increasing at the rate ~1 per sec (<http://www.internetlivestats.com/total-number-of-websites/>).

Number of Websites online: 1,864,086,130 (recorded at 7.40 pm on 31 March 2018). It must be noted that around 75% of websites today are not active, but are parked domains or similar.

Year (June)	Websites	Change %	Internet Users	Users per Website	Websites launched
1991 Aug	1				World Wide Web Project
1992	10	900			
1993	130	1200	14,161,570	108,935	
1994	2,738	2006	25,454,590	9,297	Yahoo
1995	23,500	758	44,838,900	1,908	Altavista, Amazon, AuctionWeb
1996	257,601	996	77,433,860	301	
1997	1,117,255	334	120,758,310	108	Yandex
1998	2,410,067	116	188,023,930	78	Google
1999	3,177,453	32	280,866,670	88	PayPal
2000	17,087,182	438	413,425,190	24	Baidu
2001	29,254,370	71	500,609,240	17	Wikipedia
2002	38,760,373	32	662,663,600	17	
2003	40,912,332	6	778,555,680	19	WordPress, LinkedIn
2004	51,611,646	26	910,060,180	18	Thefacebook, Flickr
2005	64,780,617	26	1,027,580,990	16	YouTube, Reddit
2006	85,507,314	32	1,160,335,280	13.6	Twtrr
2007	121,892,559	43	1,373,327,790	11.3	Tumblr
2008	172,338,726	41	1,571,601,630	9.1	Dropbox
2009	238,027,855	38	1,766,206,240	7.4	
2010	206,956,723	-13	2,045,865,660	9.9	Pinterest
2011	346,004,403	67	2,282,955,130	6.6	

2012	697,089,489	101	2,518,453,530	3.6	
2013	672,985,183	-3	2,756,198,420	4.1	
2014	968,882,453	44	2,925,249,355	3.0	
2015	863,105,652	-11	3,185,996,155	3.7	
2016	1,045,534,808	21			
2017	1,766,926,408	69			
2018	1,863,234,800				<= At 7.45 pm on 28 March 2018

Source: NetCraft and Internet Live Stats (elaboration of data by Matthew Gray of MIT and Hobbes' Internet Timeline and Pingdom)

A table of region-wise world Internet users and population statistics is given below:

WORLD INTERNET USAGE AND POPULATION STATISTICS DEC 31, 2017 – Update

Source: Internet World Stats – www.internetworldstats.com/stats.htm

World Regions	Population (2018 Est.)	Population % of World	Internet Users 31 Dec 2017	Penetration Rate (% Pop.)	Growth 2000-2018	Internet Users %
Africa	1,287,914,329	16.9	453,329,534	35.2	9,941	10.9
Asia	4,207,588,157	55.1	2,023,630,194	48.1	1,670	48.7
Europe	827,650,849	10.8	704,833,752	85.2	570	17.0
Latin America / Caribbean	652,047,996	8.5	437,001,277	67.0	2,318	10.5
Middle East	254,438,981	3.3	164,037,259	64.5	4,893	3.9
North America	363,844,662	4.8	345,660,847	95.0	219	8.3
Oceania / Australia	41,273,454	0.6	28,439,277	68.9	273	0.7
WORLD TOTAL	7,634,758,428	100.0	4,156,932,140	54.4	1,052	100.0

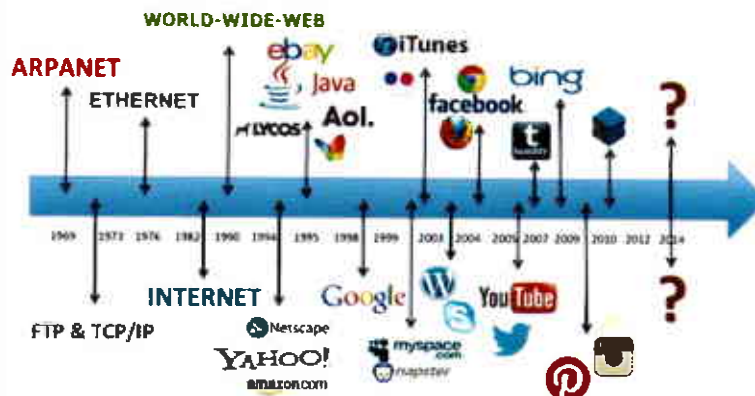
9. Why did the Web succeed?

The Web turned 29 years in 2018. Some key principles that have allowed the Web to flourish:

- It is universal. It will work with any device, any operating system, and type of information, any language, any culture, and form of connectivity, and for people with disabilities. A hypertext link can be made to anything.
- It is royalty-free. One does not need to pay royalties to implement W3C's Web standards.
- It is decentralised. Anyone can create a site - with no need to ask for permission.

It is built on open standards and collaboration. (<https://www.w3.org/webat25/about/history>)

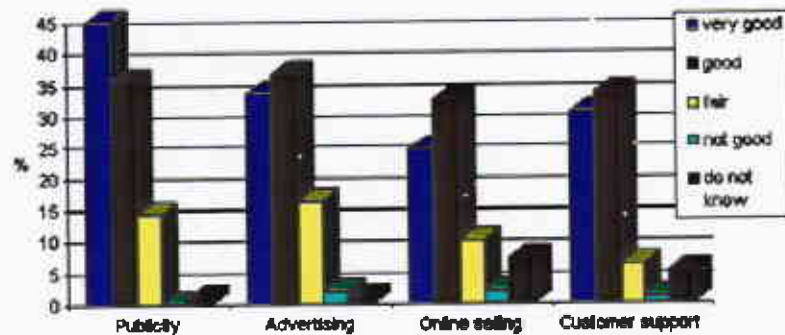
Over the years up to the present numerous Websites evolved. The designs of the present websites are much more attractive than the older ones. We give below a year-wise evolution of famous websites :



10. Trillion \$ Commerce with WWW

E-commerce (electronic commerce) is the buying and selling of goods and services, or the transmitting of funds or data, over an electronic network, primarily the internet. These business transactions occur either as business-to-business business-to-consumer, consumer-to-consumer or consumer-to-business.

The expectations and confidence expressed by the companies on the future of World Wide Web are shown graphically. The figure shows the perceived value of the Web for particular purposes (1998).



<https://www.statista.com/topics/871/online-shopping/>

Global E-commerce: For private consumers around the globe the most well-known form of e-commerce falls into the business to consumer (B2C) category, which includes online retail or online shopping. It refers to online purchases from bricks-and-mortar retailers, such as Walmart, as well as from web-only online retailing corporations such as Amazon.com or Rakuten. In 2017, an estimated 1.66 billion people worldwide purchase goods online. During the same year, global e-retail sales amounted to USD 2.3 trillion and projections show a growth of up to USD 4.48 trillion by 2021. In Asia Pacific, e-retail sales accounted for 12.1% of retail sales in 2016 but only for 1.8% of retail sales in the Middle East and Africa.

11. Web Morality

Has the Web basically been a good idea or a bad one? – One might ask. Well, the Web can be used for all the wrong things. For downloading pictures of horrible, gruesome, violent or obscene things, or ways of making bombs which terrorists could use. The Web can also be the home of illegal drugs, child porn, stolen credit card numbers, human trafficking, weapons, exotic animals, sex-related crimes. Some people also argue how their lives have been saved because they found out about the disease they had on the Web, and figured out how to cure it.

One popular Web morality issue that is often debated is the practice of visiting Web sites while using an ad blocker program. Many sites rely on advertisement revenue and some believe it is morally wrong to surf and intentionally block ads as you are taking advantage of what the Web site has to offer without viewing the ad content.

12. Future of WWW - Challenges

The Web can be weaponised – and we cannot count on big tech to stop it. It is dangerous having a handful of companies control how ideas and opinions are shared. A regulator may be needed (The Guardian – Int. ed., modified Mon 12 Mar 2018). Tim Berners-Lee thinks it is important to remember that any really powerful thing can be used for either good or evil. Dynamite can be used to build tunnels or to make missiles. Engines can be put in ambulances or tanks. Nuclear power can be used for bombs or for electrical power. So what is made of the Web is up to us - you, me, and everyone else. Let's use the web to create neat new exciting things. Let's use the Web to help people understand each other.

To mark its 28th birthday in 2017, Berners-Lee (now founding director of the World Wide Web Foundation) has written an open letter discussing three issues he is "increasingly worried about", and believes "we must tackle in order for the Web to fulfill its true potential as a tool which serves of all humanity". The issues/trends are as follows: (Rob Price, Business Insider, 13 MAR 2017)

- a. Losing control of our personal data.
- b. The spread of fake news.
- c. The lack of regulation around political advertising.

These are three of the biggest threats facing the Web today, according to its inventor, Tim Berners-Lee.

Losing Control of Personal Data: People are surrendering their personal data when they sign up to sites, and this has got Berners-Lee worried. "As our data is then held in proprietary silos, out of sight to us, we lose out on the benefits we could realise if we had direct control over this data, and chose when and with whom to share it," he said. "What's more, we often do not have any way of feeding back to companies what data we'd rather not share - especially with third parties - the T&Cs are all or nothing." The risks are multiplied in countries with authoritarian regimes, where collaboration between companies and governments can put citizens' lives at risk.

Cambridge Analytica Scandal: US Federal Trade Commission confirmed in a statement (19 March 2018 Monday) that it is currently investigating Facebook data practices as the company faces new scrutiny from the Cambridge Analytica scandal. News broke earlier this month that Cambridge Analytica, a data firm with ties to President Donald Trump's campaign, reportedly accessed information from about 50 million Facebook users without their knowledge. The controversy wiped away nearly \$50 billion from Facebook's stock price earlier this week and prompted politicians on both sides of the Atlantic to call for Zuckerberg to testify (CNN - 21 March 2018).

Fake News: Large number of people are increasingly concerned about the spread of misinformation online - from fake news being cynically peddled to make a quick buck off advertising to sophisticated political propaganda campaigns. Social networks "show us content they think we'll click on - meaning that misinformation, or 'fake news', which is surprising, shocking, or designed to appeal to our biases can spread like wildfire", Berners-Lee wrote. "And through the use of data science and armies of bots, those with bad intentions can game the system to spread misinformation for financial or political gain."

Political Advertising: Web inventor argues that sophisticated modern advertising is putting democracy at risk. "There are suggestions that some political adverts - in the US and around the world - are being used in unethical ways - to point voters to fake news sites, for instance, or to keep others away from the polls." "Targeted advertising allows a campaign to say completely different, possibly conflicting things to different groups. Is that democratic?" There's a common thread running through all three of these trends: The power of huge tech companies like Facebook and Google, and how, unchecked, they can have corrosive effects on our civil society.

It is important to highlight that the Web becomes 29 years old today. This is because the companies that define our digital lives today are all much younger. Google is 20, Facebook is 14, and Twitter is just 12. Yet it is these companies, plus the likes of Amazon (24) which have unprecedented control over how our internet operates. The companies found themselves in a position where these are ultimately bigger than the elected officials entrusted with keeping them in check.

A simple solution to all the problems is not yet in view. Berners-Lee suggests everything from encouraging companies to explore subscriptions and micropayments rather than advertising, to ensuring we have "more algorithmic transparency to understand how important decisions that affect our lives are being made, and perhaps a set of common principles to be followed". "It has taken all of us to build the Web we have," he concludes, "and now it is up to all of us to build the Web we want - for everyone." In the World Wide Web Foundation Website Berners-Lee outlined the major problems we need to overcome to wrestle our internet back from monopolies, and make it closer to the utopian ideal he envisaged back in 1989.

"While the problems facing the web are complex and large, I think we should see them as bugs: problems with existing code and software systems that have been created by people - and can be fixed by people," Berners-Lee writes. "Create a new set of incentives and changes in the code will follow."

A Case for Regulation: That may have to involve regulation, he believes. "What was once a rich selection of blogs and websites has been compressed under the powerful weight of a few dominant platforms," Berners-Lee laments. "This concentration of power creates a new set of gatekeepers, allowing a handful of platforms to control which ideas and opinions are seen and shared."

"These dominant platforms are able to lock in their position by creating barriers for competitors," he continues. "They acquire startup challengers, buy up new innovations and hire the industry's top talent. Add to this the competitive advantage that their user data gives them and we can expect the next 20 years to be far less innovative than the last."

This concentration of power makes it possible to "weaponise the web at scale," evidenced by the spread of conspiracy theories, fake social media accounts designed to sow discord, state-level interference in elections and cybercriminals able to steal "troves of personal data."

But Berners-Lee opines that the companies which have become the web's gatekeepers cannot be relied on to fix the problem, thanks to loyalty to their shareholders rather than society at large. "A legal or regulatory framework that accounts for social objectives may help ease those tensions," he writes. "Let's assemble the brightest minds from business, technology, government, civil society, the arts and academia to tackle the threats to the web's future. "At the Web Foundation, we are ready to play our part in this mission and build the web we all want. Let's work together to make it possible."

Acknowledgements

Various sources from which many of the materials, texts and pictures utilized in the present educational article are gratefully acknowledged.



THE SURFACE WATER OCEAN TOPOGRAPHY (SWOT) MISSION AS A TOOL FOR MANAGING THE WORLD'S WATER

Dr. Faisal Hossain

Professor, University of Washington, Seattle, WA 98195, USA



1.0. INTRODUCTION

We are currently experiencing what many would call the “Anthropocene” of water. Anthropocene refers to a period where human activities dominate over natural processes. Water is being redistributed and artificially managed to the extent that there is no pristine river basin left today without the human footprint caused by water diversions, barrages, dams and irrigation projects. For example, records indicate a tremendous increase in irrigation acreage by 3 folds in the United States alone. Similarly, there are about 75,000 large dams built in the last century with a total capacity almost equivalent to a few centimeters of all the ocean's water. Around the world, the number of dams in populated regions is more staggering and exploding due to needs for economic development.

Recognition of the ‘Anthropocene’ of surface water or the human ‘rearrangement’ of the water over land is very important for building tools that can help us manage the emerging problems with water. Today, satellites in space can actually ‘sense’ the amount and flux of water over land using the concept called remote sensing. Since the 1970s, there have been many satellites in space monitoring rainfall, cloud movement, air temperature, elevation of water bodies, wetness of soil etc. One particular satellite mission that is currently under planning for launch in 2021 is the Surface Water and Ocean Topography (SWOT) mission. One of the key objectives of the SWOT Mission is – “to characterize the temporal and spatial variation in surface waters globally”. In most regions of the world, it has become difficult to have accurate knowledge of the redistribution component of surface water at space-time resolutions relevant for predicting water availability that is key to understanding the water cycle over land. When we cannot figure out what this dominant human management fingerprint of water is in most regions due to lack of in-situ observations, satellites in space, in particular SWOT's ability to estimate the dynamics of surface water, are likely the only platforms that can inform us how water resources are being redistributed by rules made by humans and not by nature.

The SWOT Mission

Scheduled for launch in 2021, the Surface Water and Ocean Topography (SWOT) mission will be a truly unique satellite remote sensing mission that will provide high temporal frequency maps of surface water extents and elevation variations of global water bodies (lakes/reservoirs, rivers, estuaries, oceans, and sea ice) at higher spatial resolution than is available with current technologies. The primary instrument on SWOT is based a Ka-band Radar Interferometer (KaRIN), which uses radar interferometry technology (Figure 1). The satellite will fly two radar antennae at either end of a 10-meter (33-foot) mast, allowing it to measure the elevation of the surface along a 120- kilometer (75-mile)-wide swath below. The availability of high frequency and high resolution maps of elevations and extents for surface water bodies and oceans will present unique opportunities to address numerous societally relevant challenges around the globe. These opportunities may include such diverse and far ranging applications as fisheries management, flood inundation mapping/risk mitigation/forecasting, wildlife conservation, global data assimilation for improving forecast of ocean tides and weather, reservoir management, climate change impacts and adaptation, and river discharge estimation, among others.

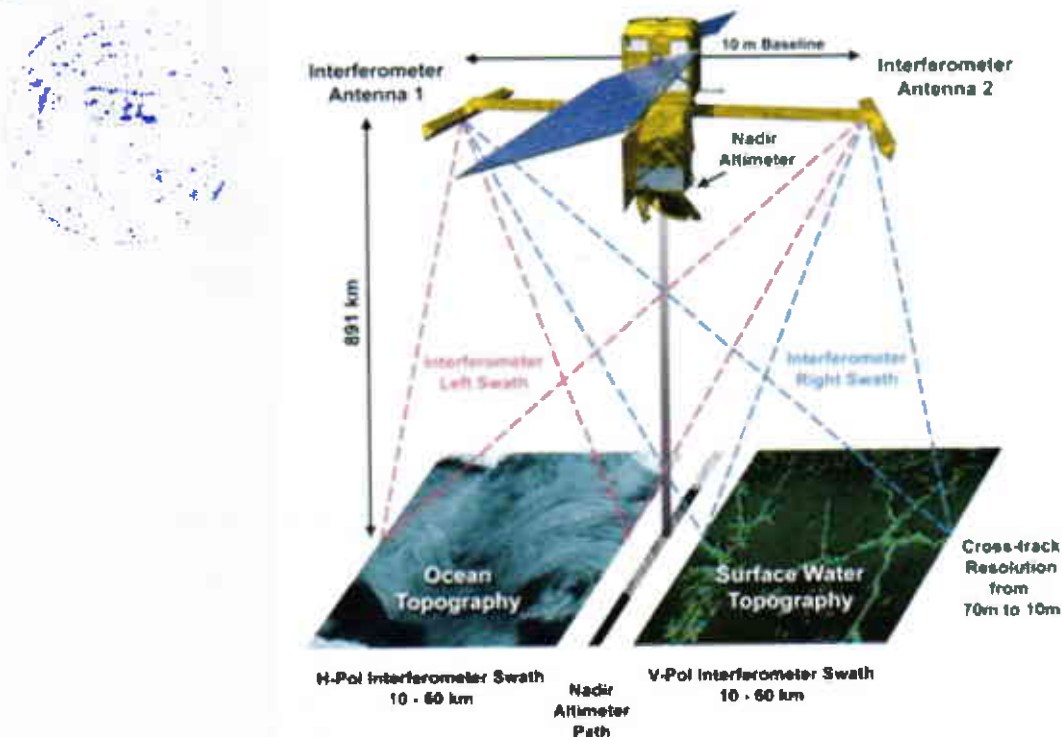


Figure 1. Artist rendition of how SWOT Satellite Mission will likely look like (more information available at <http://swot.jpl.nasa.gov>)

CONCLUSION

While being primarily a science-driven mission, SWOT has the unique potential to show how satellites can truly improve lives of millions of people on managing water resources for society in the Anthropocene. In this Anthropocene, the stand-alone physical hydrologic models or conventional are becoming increasingly limited in predicting the state of surface water availability without a 'human management' component extracted from observations. Thus, as a surface water mission with wide-swath altimetry capability, SWOT is uniquely poised to provide scientific and societal insights on how humans interplay with nature and alter the global water cycle overland – which is a key hydrologic science objective for SWOT.

Tech Fest: A Wonderful Journey at IIUC



Mohammed Shamsul Alam

Associate Professor, Department of Computer Science & Engineering, IIUC
Co-convenor, Organizing Committee, Tech Fest 2017

Tanveer Ahsan

Associate Professor, Department of Computer Science & Engineering, IIUC

IT Fest/Tech Fest is an annual/bi-annual event organized by Faculty of Science & Engineering (FSE) of International Islamic University Chittagong (IIUC). Department of Computer Science & Engineering (CSE) has been organizing this sort of Festival since 2003. Later on other departments of FSE come forward to organize similar kind of festivals. In 2014, for the first time, all the department of FSE came together to jointly organize Tech Fest. The main objective of this event is to create an opportunity for sharing of knowledge, idea and experiences among public and private universities in Bangladesh. A variety of events like Programming contest, Robo fight competition, Project show competition, Software development competition, Hackathon, Idea generation competition, Cyber games contest, Tech Olympiad, Poster presentation competition, Debate competition, Workshop, Seminar etc. were arranged in these festivals.

IT Enlightenment Week 2003

The very first edition of Tech Fest was in 2003, started with the name "IT Enlightenment Week '03" which was organized by IIUC Computer Club. It was a weeklong program from October 19 to October 23 with massive participation from different university, colleges and schools. That was the first time an IT festival in such a big scale was held in Chittagong. Professor Dr. A. K. M Azharul Islam, Hon'ble Vice Chancellor of IIUC inaugurated the festival at Safa Arcade, Chawkbazar. The week was vibrant with arrangement of events like seminars, software competition, game and quiz contests. As part of this week a Math Olympiad for the school and college level students was held where the brightest students of Chittagong got opportunity to show their math skills. Another big event was the 2nd IIUC Inter-University Programming Contest (IIUPC) where all the public and private universities of Chittagong region participated. CUET secured the 1st position. IIUC got 2nd, 3rd positions and best female team award among 23 teams. Prof. Dr. Md. Nurul Islam was the Convener and Mr. Md. Shamsul Alam was the member secretary of this festival.



Prof. Dr. A.K.M. Azharul Islam, Vice Chancellor, IIUC is seen at inaugural ceremony of IT Enlightenment Week 2003



Prof. Dr. A.K.M. Azharul Islam, vice chancellor, IIUC receiving floral bouquet at IT Enlightenment Week 2003



Mr. Jafrul Islam Chowdhury, honorable state minister for forest and environment, Prof. Dr. Yousuf Sharif Ahmed Khan, vice chancellor, Maolana Vashani Science & Technology University are seen at IT Enlightening Week 2004 at IIUC Dhaka Campus



Mr. Jafrul Islam Chowdhury, honorable state minister for forest and environment handing over the prizes at IT Enlightening Week 2004 at IIUC Dhaka Campus



Prof. Dr. Nurul Islam handing over the prizes at IT Festival 2005 at IIUC Dhaka Campus



Prof. Dr. Logman, Mr. Shah Abdul Hannan are seen at IT Festival 2006



Honorable Guests are seen at IT Festival 2006

IT Enlightening Week 2004

Computer club of IIUC Dhaka campus organized an "IT Enlightenment Week" from May 08 to May 13, 2004. Major Events of this week were Math Olympiad (College Level), Software Competition, Quiz Contest, Games Contest and Programming Contest. Prof. Dr. A.K.M Azharul Islam, Honorable Vice Chancellor of IIUC was the Chief Guest of the Inaugural Ceremony held at Ullash Community Center, Dhanmondi. The Prize Giving Ceremony was held at Russian Cultural Center, Dhaka. Mr. Jafrul Islam Chowdhury, Honorable State Minister for Forest and Environment was present as chief guest. Prof. Dr. Yousuf Sharif Ahmed Khan, Honorable Vice Chancellor, Moulana Bhashani Science & Technology University was the Special Guest in the occasion. Notre Dame College secured the top three positions in the Math Olympiad. A seminar on "Dynamic Programming Application in Computer Graphics" was conducted by Dr. Md. Haider Ali, Associate Professor, Department of CSE, Dhaka University. Prof. Dr. Md. Nurul Islam was the Convener and Mr. Md. Shamsul Alam was the member secretary of this festival.

IT Festival 2005

Computer club of IIUC Dhaka campus organized a ten day long IT Festival from June 11 to June 20, 2005. Major Events of this festival were Programming contest, Math contest, IT debate competition, Computer games competition and Web development competition. Shah Abdul Hannan, Former Secretary & Advisor, IIUC was the chief guest of the Inaugural Ceremony at IIUC DC Auditorium. Prof. Hafiz Md. Hasan Babu, Head, Dept. of CSE, DU was the Special Guest in the occasion. Barrister Md. Aminul Haque, Honorable Minister, Ministry of Post & Telecommunications was present as Chief Guest of the Prize Giving Ceremony which was held at Russian Cultural Center, Dhaka. Prof. Dr. K.M. Mohsin, Member, University Grants Commission was the Special Guest in the occasion. The ceremony was presided over by Professor Dr. Mohammad Loqman, Chief, IIUC Dhaka Campus. Mr. Md. Shamsul Alam was the Convener of this festival.

IT Festival 2006

The Computer Club of International Islamic University Chittagong, Dhaka Campus organized an IT Festival from 4th to 10th June 2006. Vice Chancellor of the University, Professor Dr. A.K.M Azharul Islam inaugurated the IT Festival on the 4th June at Russian Cultural Center in Dhanmondi. Mr. Md. Shamsul Alam, Associate Professor & Head, CSE was the Convener of the program. The students of Computer Science and Engineering Department organized a colorful cultural function at the end of the inaugural ceremony. Math & Puzzle Contest, Games Competition, IT Debate Competition, Programming Contest, Software and Hardware Development Contests and Get together with Alumni were arranged during the festival. Dr. M. Kaykobad, Professor, North South University was the Chief Guest in the Programming Contest.

The prize giving ceremony was held on the 10th June 2006 at Russian Cultural Centre in Dhanmondi. Ziaul Haque Zia, Honorable State Minister, Ministry of LGRD, Government of the Peoples Republic of Bangladesh was present as the Chief Guest. Professor Dr. Ershadul Bari, Honorable Vice Chancellor, Bangladesh Open University was the Special Guest in the occasion. In the festival, the best male participant was Md. Mobashwir Hasan and the best female was Jinat Jahan.

Victory Day IT Festival 2006

The Computer Club of CSE, IIUC Chittagong campus organized a Victory Day IT Festival on December 16, 2006. Pro Vice Chancellor of the University, Professor Dr. Abu Bakr Rafique inaugurated the IT Festival at IIUC Auditorium, Academic building-1, Chawkbazar. Maolana Mohammad Shamsun Islam, Secretary of IUC Trust was the Special Guest in the occasion. Mohammad Safiullah, President, Computer Club was the Convener of the program. Software Exhibitions, Workshop for college students, Seminar on Career and future of IT, Get together with Alumni and Cultural Program were arranged during the festival.

IT Festival 2007

The Computer Club of International Islamic University Chittagong, Dhaka Campus organized an IT Festival from 16th June to 17th July 2007. Professor Dr. Mahbub Ullah, Honorable Member of University Grants Commission inaugurated the Festival at Russian Cultural Center in Dhanmondi. Special Guest of the session was Dr. Md. Haider Ali, Chairman of the Department of CSE of the University of Dhaka. Mr. Mohammed Shamsul Alam was the Convener of the festival. Math & Puzzle Contest, Games Competition, IT Debate Competition, Programming Contest, Software and Hardware Development Contests, Quiz Competition and Get together with the Alumni were arranged during the festival. The prize giving ceremony was held on the at Russian Cultural Centre in Dhanmondi. Justice Md. Abdur Rauf, former Chief Election Commissioner of Bangladesh graced the occasion as the Chief Guest. Professor Dr. M. Kaykobad, of Bangladesh University of Engineering and Technology remained present as the Special Guest. Among all the participants, Tahsin Sayeeda was awarded as the best performer.

IT Festival 2008

The Computer Club of International Islamic University Chittagong, Dhaka Campus organized an IT Festival from 7th to 17th June 2008. Vice Chancellor of the University, Professor Dr. M Mahbub Ullah inaugurated the IT Festival at Sugandha Community Center in Dhanmondi. Prof. Dr. Md. Haider Ali, Head, CSE, Dhaka University was the special guest. Mr. Md. Shamsul Alam was the Convener and Abdullahil Kafi, Head, CSE was the member secretary of the program. IT Quiz Contest, Math and Puzzle Contest, Programming Contest, Hardware Design Competition, Software Development Competition, Games Contest, Get Together with CSE Alumni and Seminar were arranged during the festival.



Honorable Guests are seen at IT Festival 2006



Justice Md. Abdur Rouf is addressing the session of prize giving ceremony at IT FESTIVAL 2007



Justice Md. Abdur Rouf is handing over the prize at IT FESTIVAL 2007



A partial view of IT Festival 2008 at IIUC Dhaka Campus



Prof. Dr. Mohammed Loqman and Shah Abdul Hannan, Chief of Dhaka Campus, IIUC are seen at inaugural ceremony of TECH FEST 2010



Honorable Guests are seen at TECH FEST 2010 at IIUC Dhaka Campus



Prof. Dr. M. Mahbub Ullah, Vice Chancellor, IIUC is speaking at inaugural ceremony of IBBL IIUC IT FESTIVAL 2011



Prof. Dr. Jamal Nazrul Islam is speaking at prize giving ceremony of IBBL IIUC IT FESTIVAL 2011 as the chief guest

The title of the seminar was "Wireless Broadband Communication" conducted by Mohammed Humayun, Assistant Manager, Advanced Data Network System. The prize giving ceremony was held at IIUC DC Auditorium. Professor Dr. M Mahbub Ullah, Vice-Chancellor, IIUC was present as the Chief Guest. Professor Dr. Md. Rezaul Huque Khan, Dean, FSE, IIUC was the Special Guest in the occasion. In the festival, the best male participant was Md. Ariful Islam and the best female was Jinat Jahan.

Tech Fest 2010

Computer Club & Electrical Club of IIUC Dhaka Campus organized a Tech Fest from 10th to 24th June of 2010. Mr. Shah Abdul Hannan, former Secretary of the Government of the People's Republic of Bangladesh inaugurated the festival. Engineer Faisal Bin Rahman was present as the Special Guest of the session. Head of the Department of EEE, BUET Dr. Saifur Rahman and former Head of the same Department Dr. Aminul Haque and Mr. Munir Hasan, General Secretary of BdOSN was the invited guests. The ceremony was presided over by Professor Dr. Mohammad Loqman, Chief, IIUC Dhaka Campus. Mr. Mohammed Shamsul Alam was the Convener of the festival. Events of the festival were Seminar, Computer Games Competition, Debate Competition, Programming Contest, Software and Hardware Exhibition, and Quiz Competition. The program ended on 24th June with the Prize Giving Ceremony.

IBBL IIUC IT FEST 2011

The Computer Club of the CSE, IIUC organized a 23 days long IT Festival from 4th May to 26th May 2011. The events of the Festival were Hardware Design Competition, Photography Competition, Quiz Contest, IT Debate Competition, Inter-University Computer, Programming Contest, Video Show, Seminar, Software Development Competition, Cyber Games Contest, Math Olympiad, Workshop on Robotics, Get together with CSE Alumni, Digital Magazine Presentation and Cultural Program. Inaugural Ceremony was held at Safa Arcade Community Center. Professor Dr. M Mahbub Ullah, Vice Chancellor of IIUC graced the ceremony as Chief Guest. The program was presided by the convener of the festival Mohammed Shamsul Alam, President, Computer Club, Dean (in charge), FSE and Head, CSE, IIUC. A big event of the festival was Math Olympiad where 140 participants from different Schools and 27 participants from different Colleges competed. The 8th Inter-University Computer Programming Contest with participation of 20 groups from different universities took place on 20th of May 2011 at Permanent Campus of IIUC. CUET ICON became the champion team of the contest by solving 4 problems. The 2nd and third position was secured by IIUC Stubbornz and CUET Ultraviolet respectively. IIUC Fireflies became the Best Female Team. Besides the contests 4 seminars and a Workshop was arranged.

The first Seminar was a technical one on "LATEX Report Writing Tool II". Mr. A.H. M. Ashfaq Habib, Assistant Professor, Department of Computer Science and Engineering of Chittagong University of Engineering and Technology conducted the seminar as the keynote speaker. The next Seminar was on Current Trend of Robotics which was followed by a daylong Workshop on Building a Robot. Mr. Feroz Ahmed Siddiki, Lecturer, United International University was the presenter of those two sessions. Mentionable that, Mr. Siddiki, the pioneer of building humanoid robot (IROBO), is an alumni of IIUC. A general Seminar on Open Source was held as the third Seminar where we had renowned Intellectual Mr. Munir Hasan, General Secretary of Bangladesh Open Source Network as the chief guest. Mr. Arafather Rahman, BDOSN attended the Seminar as the Speaker. The last Technical seminar was on "Heterogeneous Wireless Network" where the keynote paper was presented by Md. Golam Rabiul Alam, Assistant Professor, CSE, IIUC. The Prize Giving Ceremony held at IIUC Auditorium, Kumira where Dr. Jamal Nazrul Islam, Professor Emeritus of University of Chittagong attended as the Chief Guest.

Tech Fest 2012

Electrical Club & Computer Club of IIUC Dhaka Campus organized a Tech Fest from 17th to 19th July 2012. The events of the Festival were Seminar and Workshop, Video Presentation, Tech Quiz Contest, Computer Games Competition, Hardware/Software Design and Development Competition, Get Together With Alumni. A workshop titled "Robotics & Embedded System" was presented by Mr. Feroz Ahmed Siddiki, Lecturer, United International University. Mr. Md. Shamsul Alam was the Convenor and Muhammad AtharUddin and Mst. Shahnaj Parvin was the co-convenor of this festival. Prof. M. Harun-Ar-Rashid, Chief, IIUC, Dhaka Campus was the Chief Guest of the festival. Prof. Dr. Md. Delawer Hossain, Hon'ble Pro Vice-Chancellor (In-Charge) was the Chief Guest in the prize giving ceremony.

Tech Fest 2014

A two-day long Tech Fest 2014 was organized by all the departments of FSE, IIUC on 3rd and 4th December, 2014. The events of the festival were Project Show Competition, Idea Generation Competition, Tech Quiz Contest, Poster Design Competition, Inter-Department Debate Competition, Inter-University Computer Programming Contest, Software Development Competition, Cyber Games Contest, Inter-University Math Olympiad, Seminars and Workshops, free medical checkup, dental checkup and blood grouping. Besides other events, a seminar titled "Air-bot – an Unmanned Aerial Vehicle (UAV)" was presented by Zubair Al Billal Khan, Research Engineer, ICT, BUET and a graduate of IIUC. He exhibits the flying of the UAV in front of the central library of IIUC after the seminar. 4 UAVs, made by his team, pleased the students, teachers and staff of IIUC.



Prof. M. Harun Ar Rashid, Chief, Dhaka campus, IIUC is seen at inaugural ceremony of TECH FEST 2012



Prof. Dr. Md. Delawer Hossain, Pro-VC (in-charge) and Mr. A.N.M. Shamsul Islam, MP are seen at prize giving ceremony of TECH FEST 2012



Prof. Dr. Md. Delawer Hossain, Pro-VC (in-charge) is handing over prize at TECH FEST 2012



Honorable guests showing tributes on the recitation of National Anthem



Prof. Dr. A.K.M. Azharul Islam, Vice Chancellor, IIUC is delivering his speech at Inaugural ceremony of TECH FEST-2014



Prof. Dr. Choudhury Mahmood Hasan, Vice Chancellor of Manarat International University is speaking at inaugural ceremony of TECH FEST 2015



Prof. Dr. Md. Delawer Hossain handing over the prizes to the winners



Prof. Dr. Md. Shamsher Ali addressing the session of Tech Fest 2017 as the chief guest.

In the 11th IIUC Inter University Programming Contest held on November 27, 2014, there was 25 teams representing 7 universities from Chittagong region. CUET Strangers became the Champions. The 2nd and third position was secured by CUET One_1 and IIUC Awla Jhawla. Inaugural Ceremony of Tech Fest 2014 was held at IIUC Auditorium. Professor Dr. A. K. M Azharul Islam, honorable Vice Chancellor of IIUC graced the ceremony as the Chief Guest. Professor Dr. M. Kaykobad, CSE, BUET was present as the Guest of Honor. The program was presided over by Dr. Mohammed Delawer Hossain, Dean, Faculty of Science and Engineering. The welcome speech of the Tech Fest 2014 was given by the Co-convenor of the festival Mohammed Shamsul Alam. The Prize Giving Ceremony held at IIUC Central Auditorium in Permanent Campus. Honorable Pro-Vice Chancellor of IIUC Professor Dr. Abu Bakr Rafique graced the occasion as the Chief Guest. Mohammed Akter Syed, Associate Professor, Department of Pharmacy was the Member Secretary of the festival.

Tech Fest 2015

A two-day long Tech Fest 2015 was organized by the FSE, IIUC on 9th and 10th December, 2015. The events of the festival were Project Show Competition, Idea Generation Competition, Tech Quiz Contest, Poster Presentation Competition, Inter-Department Debate Competition, Inter-University Computer Programming Contest, Software Development Competition, Robo fight competition, Seminars and Workshops. An exciting seminar on "Robotics and Fabs Lab: A bridge for sustainable robotics research activities" was presented by Professor Dr. Sajal Chandra Banik, Head of the Department of Mechanical Engineering, CUET. 12th IIUC Inter University Programming Contest was participated by 30 teams representing 5 universities from Chittagong region. CUET_IN_STACK became the Champions. The 2nd and 3rd position was secured by CUET_BLACK_FLAGS and IIUC Serene Fighters. Inaugural Ceremony of Tech Fest 2015 was held at IIUC Auditorium. Professor Dr. Choudhury Mahmood Hasan, honorable Vice Chancellor of Manarat International University graced the ceremony as the Chief Guest. The program was presided over by Professor Dr. Md. Delawer Hossain, Pro-VC of IIUC and Dean, Faculty of Science and Engineering, IIUC. The welcome speech of the Tech Fest 2015 was given by the Co-convenor of the festival, Mohammed Shamsul Alam. In the Prize Giving Ceremony, Honorable Pro-Vice Chancellor of IIUC Professor Dr. Delawer Hossain graced the occasion as the Chief Guest due to the illness of Honorable Vice Chancellor of IIUC Professor Dr. A. K. M. Azharul Islam. Professor Dr. Md Monirul Islam of CSE presided the session.

The 13th instance of Tech Fest 2017 was organized by all the departments of FSE, IIUC on December 21 & 22, 2017. All the Festivals were a result of hard work by the students as well as the faculties of the organizing Departments of the Faculty of Science and Engineering of International Islamic University Chittagong. In near future, such initiative may lead to the advancement of technological knowledge as well as other co-curricular activities to its apex with sincere and active participation of the students and academics of science and technology. We hope that FSE, IIUC will continue organizing similar programs and activities at national & international level in coming future.

Report on Tech Fest 2017

Dr. Mohammed Aktar Sayeed

Associate Professor, Department of Pharmacy, IIUC
Member Secretary, Organizing Committee, Tech Fest 2017

Mohammed Shamsul Alam

Associate Professor, Department of Computer Science & Engineering, IIUC
Co-convener, Organizing Committee, Tech Fest 2017



A two-day long grand festival of technology Tech Fest 2017 was organized by the Faculty of Science and Engineering (FSE) of International Islamic University Chittagong (IIUC) on 21st and 22nd December, 2017. Departments of FSE, IIUC has been organizing this kind of festival since 2003. Like previous two festivals, this 13th instance of festival of technology was organized jointly by all the departments of FSE. Besides Inaugural Ceremony and Prize Giving Ceremony there were a handful of events which were hugely participated by the students of different departments of IIUC as well as other universities. The events were Inter University Programming Contest, Hackathon, Software & App Development Competition, Cyber Gaming Contest, Inter University Robo Fight Competition, Poster Presentation Competition, Inter University Project Show Competition, Tech Olympiad, Medicinal Plant Show Competition, Inter University Idea Generation Competition, Seminar and Free Medical Checkup.

Inaugural Ceremony

Inaugural Ceremony of Tech Fest 2017 was held on the 21st December 2017 at IIUC Auditorium. Professor K M Golam Mohiuddin, honorable Vice Chancellor of IIUC graced the ceremony as the Chief Guest. Dr. Nowshad Amin, Professor of National University of Malaysia was present as the Guest of Honor. The program was presided over by Professor Dr. Md. Delwar Hossain, Pro Vice Chancellor (Acting), IIUC. The welcome speech of the Tech Fest 2017 was given by the Co-convener of the festival, Mohammed Shamsul Alam, Associate Professor, Department of CSE. Prof. Dr. Md. Monirul Islam, Dean, FSE was the convener of the festival.

In his speech, Prof. K. M. Golam Mohiuddin, Vice Chancellor of International Islamic University Chittagong (IIUC) said, it is not possible to survive in this era of globalization without the knowledge of science and technology. He said, Bangladesh has progressed a lot in science and technology and our children are earning fame abroad. He assures that all kinds of cooperation will be provided to uphold practices of science.



Prof. K.M. Golam Mohiuddin, honorable Vice Chancellor, IIUC delivering his speech at inaugural ceremony of Tech Fest 2017



Prof. Dr. Md. Delwar Hossain, honorable Pro Vice Chancellor is delivering his speech at prize giving ceremony of Tech Fest 2017



Prof. Dr. Nowshad Amin is speaking at inaugural ceremony of Tech Fest 2017



Prof. Dr. Md. Monirul Islam, Dean, Faculty of Science and Engineering, IIUC is speaking at inaugural ceremony of Tech Fest 2017



Mr. Md. Shamsul Alam, Co-Convener is delivering his speech at prize giving ceremony of Tech Fest 2017



Dr. Md. Aktar Sayeed, Member Secretary is delivering his speech at prize giving ceremony of Tech Fest 2017



A partial view of the audience is seen at Tech Fest 2017

Dr. Nowshad Amin said, real knowledge must be understood. Knowledge is infinite, but our knowledge has limitations. He also said we have had much progress. Our position and competence are well understood beyond the country. Professor Dr. Md. Delawer Hossain said science and technology should be used in public welfare. Knowledge must be used in every field of life. Being only knowledgeable knowledgeable will not work. Whether it is being used properly is important.

Inter University Programming Contest

Following the tradition of the Department of CSE in arranging Inter University Programming Contest continuously in the past years, the 13th instance of the contest was held as part of the Tech Fest 2017. This grand event was participated by 32 teams representing 7 universities from Chittagong region. Name of the universities are International Islamic University Chittagong, Chittagong University of Engineering and Technology, University of Chittagong, Comilla University, Premier University Chittagong, Chittagong Independent University, University of Science and Technology Chittagong. In the contest, there were 11 problems to be solved by each the participant teams in 5 hours. CUET Kalo_Bonduk of Chittagong University of Engineering and Technology became the Champion by solving 7 problems. IIUC Serene Fighters of International Islamic University Chittagong and PUC Scratch of Premier University Chittagong secured 1st Runner Up and 2nd Runner Up position by solving 6 and 5 and problems respectively. A team named CJC_TEAM_1971 comprising of college students got a Special Award for their stunning performance by solving 6 problems. Mohammad Ashraful Islam, Lecturer of Mawlana Bhashani Science & Technology University coordinated the preparation of the problemset. Tanveer Ahsan, Associate Professor, CSE was the Contest Director.

Hackathon, Software & App Development Competition

On December 15, the first time in Chittagong Division, the 24-hour inter-departmental competition "Hackathon" under the Tech Fest 2017 organized by the Faculty of Science and Engineering, International Islamic University, was held. "Hackathon" is currently a hot trend among the prestigious universities worldwide. This was the first Hackathon event organized by IIUC in Chittagong Division. Like the first time event, the competition was open to students of IIUC only and there was a spontaneous participation of students. 30 teams of male students and 16 teams of female students participated in it. Five designated labs for the students, adequate food, and conjunction facilities were ensured. Pro-Vice Chancellor of IIUC Professor Dr. Md. Delwer Hossain, inaugurated the Hackathon at the IIUC seminar hall on 10th December at 10 am. The convener of this event Mr. Shahidul Islam Khan, Associate Professor, CSE, IIUC instructed the students about the rules and regulations of the event. After that, the 24-hour

epic of Hackathon began. The event duration was 24-hour for male students and 10-hour for female students for solving the given problem. Under the overall management and supervision of the teachers of the Computer Science and Engineering (CSE) Department, along with 12 judges from Academia and Industry and the volunteers of the computer club and IIUC Data Science Research Group, the Hackathon was finished colorfully and successfully through tireless work in 24 hours. Some prominent organizations of Chittagong sponsored this grand event. Among them, the title sponsor was "Code and Crayon". Other sponsors were Habib Group, Wellcast group, Puzzle Studio, Affal Technology. After 24 hours, this Hackathon was ended by a closing ceremony where Professor K M Golam Mohiuddin, Honorary Vice-Chancellor of IIUC was present.

Two other important events also took place with Hackathon - Software Development Competition and Apps Development Competition. Around twenty male and female teams participated in these two events and presented their own developed software and mobile apps.

Cyber Gaming Contest

In Cyber Gaming Contest there were four different games. For Male: FIFA 17, Need for Speed – Most Wanted, Call of Duty and For Female: Need for Speed – Most Wanted and Ludo Star. More than 300 students participated in different games of the Cyber Gaming Contest. In FIFA 17, approximately 60 students participate to compete. In NFS – Most Wanted, the number of participants was 120 and In Call of Duty, number of teams was 10 where each team has maximum 5 members. Students from all the departments of IIUC were participated in the contest. Selection round was held on 17th and 18th December, 2017 (Male) & 18th December for Female. Selection round was held at Lab1 and Lab2 of Academic Building 4. After Selection Round, 2 participants from FIFA 17, 4 participants from NFS – Most Wanted, 2 participants from Ludo Star and 2 teams from Call of Duty were selected for Final Round. Final round was held on 20th December at Lab1 and Lab2 of Academic Building 4. In Final round, Convener of the Cyber Gaming Contest Dr. Abdul Kadar Muhammad Masum, Associate Professor, CSE were present and enjoyed all the game along with Shayhan Ameen Chowdhury, Lecturer, CSE and Adil Mahmud Roman Lecturer, CSE.

Inter-University Robo-Fight Competition

A total of 16 teams, consisting of 3 students per team, participated in the "Inter-University Robo-Fight Competition-2017". Among the 16 teams, three teams participated from CUET and rest of the teams were from IIUC. Among the 13 teams of IIUC, seven teams were from department of ETE, five teams were from department of EEE and one team was from department of CSE. A technical evaluation of the registered teams was held on 20th December, 2017 at 2 PM to 5 PM in



Mr. Md. Abu Taher, Managing Director, Automation Group of Companies is delivering his speech at prize giving ceremony of Tech Fest 2017



Prof. Dr. Kazi Deen Mohammad, Vice Chairman, Board of Trustees, IIUC is speaking at prize giving ceremony of Tech Fest 2017



Prof. Dr. Md. Shamsher Ali addressing the session as the chief guest at prize giving ceremony of Tech Fest 2017



Mr. Mohammad Nurullah, the Treasurer, IIUC is distributing the prizes among the winners

the conference room of FSE building. All the members of the committee of inter-university Robo-fight competition were present in the technical evaluation session. In this session, the committee took a short viva-voce from every team to ensure that all the robots carried by the students were made by themselves. The final round took place at the central auditorium on December 22, 2017 from 10 am to 1 PM. Honorable Pro-Vice Chancellor of IIUC Professor Dr. Md. Delawer Hossain, honorable dean of FSE Prof. Dr. Md. Monirul Islam, faculty members, male and female students of different departments of IIUC enjoyed the final round of Robo-Fight Competition. The team named as "Syndicate" from dept. of ETE became the champion and "X-Treme" from dept. of CSE placed the runner up position.

Tech Olympiad

Tech Olympiad, as always, tested the competence of the students of Science and Engineering in the fields of Physics, Chemistry, Mathematics, ICT, Biology and General Knowledge on Technology. The competition was separate for males and females with prize money for champion and runner-up for both male and female. Affable Technology sponsored the prize money of the event. 89 male and 67 Female students registered for the event (Total 156). The event was divided into two levels. In level 1, a preliminary test was taken amongst the registered participants to determine the finalists. After a rigorous competition, 21 Male and 18 Female students were selected for the final round. The final was of live question and answer style, where the participants did not only had tough questions, but they had time stipulated to answer each question. There were 4 rounds. In each round, some of the students got eliminated based on the competition rules. This was an intriguing session with tensions hanging in the air every moment. After hard-fought battles, ties, tie breakers and many other attractive steps, finally the winners were selected.

Medicinal Plant Show Competition

Medicinal Plant Show Competition was included first time in this grand fest. Total 18 groups comprising 54 students participated in this event. Among them 7 groups were male and 11 groups were female. After preliminary assortment 10 groups (five groups each from male and female) were selected for final contest. Preliminary rounds of the competition were held in Pharmacy department for male and in female academic complex auditorium for female at 11th and 12th December, 2017 respectively. Most of the topics were related to medicinal plant. Professor Dr. Md. Monirul Islam, Convener of Tech Fest 2017 and Dean, Faculty of Science and Engineering, IIUC highly appreciated the sincere participation of the students in the program to make the event successful within a very busy exam schedule. The adjudicators of the this event were Dr. Shaikh Bokhtear Uddin, Professor, Department of Botany, University of Chittagong and Dr. Md. Atiar Rahman, Associate Professor, Biochemistry and Molecular Biology, University of Chittagong for final competition. The final competitions for both male and female teams were held on 21 December, 2017 separately at the Department of Pharmacy, IIUC. Students benefited from a wide variety of speech from the honorable judge. All the adjudicators were highly pleased to see presentation skills of IIUC's students about medicinal value and thanked Tech Fest authorities to give such a platform for students to explore their aptitude.

Inter University Idea Generation Competition

Idea Generation is the creative process of generating, developing and communicating new ideas, where an idea is understood as a basic element of thought that can be visual, concrete, or abstract. With this aim in mind, Idea Generation Competition was arranged and held with a slogan "Ideas come from everything" in IIUC Tech Fest 2017, where 60 participants in 30 groups participated from 6 departments. The 1st round was held on December 18, 2017 at the Hall Room of the Department of Pharmacy. The 2nd round was held on December 19, 2017. A total of 8 groups with 16 participants were selected for the final round. The final Round was held on December 22, 2017 in the IIUC Auditorium. The Projects were judged by a team of 10 judges comprising of Engineer Md. Morshedur Rahman, Executive Engineer, Power Development Board Bangladesh; Md. Nazrul Islam, Vice President and Operation Manager, Social Islami Bank Ltd; Md. Habibur Rahman, Principal Scientific Officer, Bangladesh Council of Scientific and Industrial Research (BSCIR) ; Syed Mohammed Tareq, Assistant Professor, Department of Pharmacy, IIUC; Md. Shakir Hossain, Assistant Professor, Department of ETE, IIUC; Mohammad Nazmul Islam, Lecturer, Department of Pharmacy, IIUC; Afrina Azad, Lecturer, Department of Pharmacy. Among the female participants, the team named as "IIUC Spontaneous" from CSE, IIUC has become the champion and "Insulin" from Pharmacy, IIUC placed the runner up position. Among the male participants, the team named as "CUET Truss" from CUET has become the champion and "Gladiator of ETE" from ETE, IIUC placed the runner up position.

Poster Presentation Competition

Poster presentation on various ongoing research articles is another important event that was organized as a part of the festival. About 42 groups from 4 departments registered and participated in the primary selection round of the competition. The primary selection was accomplished by the respective panel of judges from each department. Among the participated research articles, about 21 articles were selected for the final round presentation. The committee proposed a predefined format for the final presentation. A total of 18 groups with 44 members presented their engineering projects by means of posters in the final competition. The final contest was held on 4th December, 2014, 11.00 am – 01.00 pm in the lobby of the IIUC Central Auditorium at permanent Campus. A team of 4 judges Dr. M. Abdus Samad, Professor, Dept. of EEE, KUET, Mr. Md. Ahsanul Hoque, Lecturer, EEE, IIUC, Mr. Md. Rafikul Islam, Lecturer, Pharmacy, IIUC, Ms. Sanjida Sharmin, Lecturer, CSE, IIUC judged the presented projects. A team from the Department of EEE (Md. Mahbubur Rahman, S.M. Imdad Bin Haider & Mohd. Imran Bin Iqbal) secured the 1st position. Their project title was Digital Learning Display for Children Based on Cascaded Dot Matrix Display with Wireless Control. Another team from EEE (Md. Raquib Uddin & Maher Abdullah) obtained the 2nd position and their project title was Bengali Character based Digital Clock using 13-segment LED Display. A team from Pharmacy (Md. Shariful Islam, Chayan Dhar, Mahmud Mostafa Hridoy) ranked 3rd and their project title was Antibiotic Resistance.

Inter University Project Show Competition

Inter University Project show competition was an event of Tech Fest 2017 where total 16 teams participated in the final round. In this completion around 40 students were present from different institutions, such as Chittagong University of Engineering and Technology, Premier University Chittagong and the host International Islamic University Chittagong. This competition was sponsored by Chittagong online limited (COL). This event was held on 22nd December 2017 from 10 am to 1 pm in front of central library. The 1st prize went to team IIUC Neptune and the project was Blind controller.

Seminar on Cyber Security

A contemporary seminar entitled “Cyber Security: Business Risk Management Approach” and “Careers in Cyber Security” was presented by Engr. Md. Mushfiqur Rahman, CISA, CCISO, CEH, CHFI, ECSA/LPT, CLPTP, ISO 27001 LA, CND, COBIT5, LPT (Master) and Engr. Mohammad Makchudul Alam, IT Security & Compliance Administrator, IT Consultants Ltd. (Q-Cash) respectively. Mr. Rahman emphasized on information security with some real field case studies. Mr. Makchudul Alam narrated why and how we build our career on Cyber Security. The program was conducted by Mr. Sk. Md. Golam Mostafa, Assistant Professor, EEE, Dr. Md. Mozahar Ali, Assistant Professor, EEE and Md. Atiqul Islam, Assistant Professor, EEE.

Prize Giving Ceremony

The Tech Fest 2017 came to an end with the Prize Giving Ceremony. The Ceremony was held on 22nd December 2017 at 3:00 pm at IIUC Central Auditorium in Permanent Campus. Noted Scientist Professor Emeritus Dr. M. Shamser Ali graced the occasion as the Chief Guest. The university Board of Trustees' Vice Chairman Professor Dr. Kazi Din Mohammad, Treasurer Muhammad Nurullah and Automation Group of Companies Managing Director Md. Abu Taher were present at the ceremony as Special Guests. Professor Dr. Md. Delwar Hossain, Pro Vice Chancellor (Acting), IIUC presided over the session. The program began with the recitation from the holy Qur'an. The welcome speech covering the Tech Fest 2017 was given by the Member Secretary of the Festival Mohammed Akter Syed, Associate Professor, Pharmacy. During his speech, the Chief Guest Professor Dr. M. Shamser Ali said that practices of science and technology with patriotism can ensure welfare of people of a country. He also urged students of the IIUC to remain engaged in attaining knowledge on science and technology so that those can be used for betterment of the country in future.

The festival of this year has got a special dimension for delivering voluntary services like free medical checkup, diabetes test and blood grouping. These services were given by IIUC Medical Center & IIUC Pharma club. As a whole, the total Festival was a result of hard work by the students as well as the faculties of the organizing Departments of the Faculty of Science and Engineering of International Islamic University Chittagong. Four clubs of FSE, Computer Club, EEE Club, ETE Club and Pharma Club played a commendable role for the success of the Festival.

This long legacy of one and half decades of arranging Tech Fest has now become a signature of FSE of IIUC. It is now a biennial event while at the initial days it took place annually. We are looking forward to a grand gathering of students and academics in the upcoming Tech Fest 2019. Hopefully, it will attract a great number of participants from IIUC and other universities as well.



A Brief Overview on the Department of CSE, IIUC

Mohammad Mahadi Hassan

Associate professor and Chairman
Dept. of Computer Science & Engineering (CSE)



A view of the reunion ceremony of CSE former students held in 2017



A view of the 15-year celebrations of Computer Club organized by Computer Club



A view of the inaugural session of IIUC Intra-University Programming Contest organized by Computer Club



A view of the farewell of 35th batch and the reception ceremony of 44th batch hosted by the computer club

Introduction

The Department of Computer Science and Engineering (CSE) of International Islamic University Chittagong (IIUC) is one of the most notable departments in Bangladesh.

With the new discovery of science and technology in line with globalization, Computer Science and Engineering (CSE) was established in 1995 to create skilled human resources. The journey began with 16 students. Professor Dr. Nurul Islam (CU) was the coordinator and Dr. Mijanur Rahman was the founding chairman of this Department. The name and fame of this department spread across the country in a short time, as a result, the students of remote and closest areas were admitted to the CSE, IIUC. The previous name of CSE was Computer Science and Technology (CST). IIUC is the first private university where the CSE department, IIUC has been accredited by the Board of Accreditation for Engineering and Technical Education (BAETE) for its fulfillment of all requirements. In 1995, the glorious journey of the CSE Department began and it currently exists. A total of 1527 students of whom 1078 male and 449 female received the B.Sc. in CSE degree from International Islamic University Chittagong both Dhaka and Chittagong campus. Throughout the world, IIUC graduates are performing different prestigious responsibilities with goodwill. In 2017, 45th batch students completed their admission after passing through a very strong fight. It has been maintaining its superiority in nearly 23 years of its journey and it has become a dream university for the students of Bangladesh.

Strength of CSE Department at present

1. Number of Students currently enrolled = 1,200 (approx.)
2. Number of Graduates to date = 1527
3. B. Sc. in CSE of IIUC is the first IEB accredited Engineering program in Chittagong and in IIUC as well.
4. B. Sc. in CSE is the most sought after undergraduate program in IIUC as per Admission Test data.
5. Department of CSE runs the only Masters program (M.Sc. in CSE) of Science & Engineering faculty of IIUC.
6. Faculty members of CSE consistently contribute to the publication of high quality research articles to a great extent in numerous indexed journals and conferences.

7. We have some very good achievements in Programming Contests and other competitive programming contest like App Development contest. We have got the experience of beating top universities of Bangladesh in the past and in recent years as well.

A partial picture of Ex-CSE, IIUC students' achievements

A very good number of alumni of CSE of IIUC are in positions of high reputation both in academia and in industry. Following is a list of a few of them.

- i. Md. Dr. Sanaullah Chowdhury - Associate Professor, CSE, CU
- ii. Dr. Ziauddin - Ex Assistant Professor, Sungkyunkwan University, South Korea, (currently Postdoctoral Fellow, Department of Informatics, University of Oslo, Norway)
- iii. Dr. Md Zakirul Alam Bhuiyan, Assistant Professor (Tenure-track), Department of Computer and Information Sciences, Fordham University, New York, USA
- iv. Dr. Md. Shakawat Zaman Sarker, Associate Professor and Chairman in the department of Electrical and Electronic Engineering in the Uttara University, Bangladesh
- v. Dr. Md. Abdul Kadar Muhammad Masum, Associate Professor, Department of Computer Science and Engineering, IIUC
- vi. Dr. Liakat Ali, Assistant Professor at Caldwell University, USA
- vii. Dr. Hijbul Alam - Faculty of Natural Sciences, University of Tampere
- viii. Dr. Arafat Rahman, Assistant Professor, University Malaysia Pahang
- ix. Dr. Shahera Hossain, Assistant Professor, CSE, University of Asia Pacific
- x. Mustagis Billah - Associate Professor and Head, Department of Computer Science and Mathematics, Bangladesh Agricultural University
- xi. Feroz Ahmed Siddiky - Developer of first humanoid robot in Bangladesh
- xii. Arafater Rahman - CEO, Binary Image
- xiii. Yasir Arafat - United Nations, New York
- xiv. Mahedee Hasan, Senior Software Architect at LeadSoft , Microsoft MVP
- xv. Liakat Ali Bhuiyan, Operative Director and Head, Department of IT, Walton Hi-Tech Industries Ltd.
- xvi. Faisal Ahmad, General Manager, Digital Services at Robi Axiata Limited
- xvii. Kausar Muhammad Iftekhar, Chief Executive Officer (CEO) at PaymentBD
- xviii. Mahmud Hasan, Software Engineer (iOS / Android) at iThinkdiff.net
- xix. Tanvir Shahriar Rimon - CEO at RANKS FC Properties Ltd.
- xx. Md. Nurul Huda, Managing Director, Icon Group
- xxi. Mazadul Hoque, Technical Solutions Manager, E Zone Technologies - Dubai, United Arab Emirates, Former MIS Manager, TwinMOS, Dubai, UAE
- xxii. Rajib Hasan, Head of News at NTV Europe
- xxiii. Md. Shofiquel Islam, Chairman at Bluebay Systems Limited & CEO at Dream Prospects



Feroz Ahmed Siddiky - Developer of first humanoid robot (IROBO) in Bangladesh



Team Shunno is receiving 1st Runner up award of EATL- Prothom Alo App Contest 2016



Nowsin Tasnim is seen at the stage in CUET with other winners of the National Math Olympiad 2016



Sa-ad Mahmud, CSE, IIUC is receiving 6th place award at the National Math Olympiad 2017 at CUET

Significant achievements of the CSE department at home and abroad

Year	Venue/Organizer	Name of the Contest	Total No. of teams	IIUC rank
2002	IIUC	IIUC Inter University Programming Contest (IIUPC)	28	1st, 2nd, 3rd
2002	IUB Ctg	IUPC	10	1st, 3rd, 5th
2002	AIUB	AIPC 2002	65	12th, 15th, Best Female Team
2002	BUET	ACM ICPC 2002	79	18th, Best Female Team
2003	IIUC	2nd IIUPC	28	2nd, 3rd, Best Female Team
2003		Chittagong Computer Fair 2003	36	1st, 3rd, Best Female Team
2003	AIUB	AIPC 2003	56	10th
2003	DIU	DIU IUPC		11th
2003	SEU	NCPC		17th
2003	BUET	ACM ICPC 2003	81	23rd
2003	Jadavpur University	ACM ICPC (India site)	54	9th
2003	IIT Bombay	ACM ICPC (India site)	35	23rd
2004	IIUC	3rd IIUPC	28	1st, 2nd, 3rd, Best Female Team
2004	IIUC	NCPC	70	10th
2004	NSU	ACM ICPC 2004	96	8th
2005	DU	NCPC	80	4th
2005	IIUC	4th IIUPC	30	1st, 2nd, Best Female Team
2005	Amrita University	ACM ICPC (India site)		26th
2005	NSU	ACM-ICPC 2005		34th
2005	DU	Hardware Project Show		2nd
2006	IIUC	5th IIUPC	30	2nd, 3rd, Best Female Team
2006	BUET	ACM ICPC 2006	60	22nd
2007	IIUC	6th IIUPC	36	2nd, Best Female Team
2007	EWU	ACM ICPC 2007		18th
2008	ULAB	NCPC	66	22nd
2008	BUET	BUET NCPC 2008	59	30th
2008	NSU	ACM ICPC 2008	85	32nd
2009	IIUC	7th IIUPC	20	2nd, Best Female Team
2009	NSU	ACM ICPC 2009	100	56th, 60th and 63rd
2010	HSTU	HSTU-IUPC	40	7th
2010	NSU	ACM ICPC 2010		51st, 53rd & 59th
2010	SUST	NCPC	85	36th
2011	IIUC	8th IIUPC	25	2nd, 5th, Best Female Team
2011	BGC	BGCTUB 2011		8th
2011	DU	NCPC (Female)	50	18th, 19th
2011	NSU	ACM ICPC 2011		40th

Year	Venue/Organizer	Name of the Contest	Total No. of teams	IIUC rank
2012	CUET	CUET IIUPC 2012		6th position
2012	IIUC	9th IIUPC 2012	27	7th, Best Female Team
2012	IUT	IUT IT Cyber Security Contest 2012	19	5th
2012	IUT	IUT IT Fest Programming Contest 2012	110	29th & 34th
2012	DIU	ACM ICPC 2012		55th
2013	CUET	CUET CSE Fest 13		7th, 9th, 10th
2013	NSU	ACM-ICPC 2013		52nd
2013	IIUC	10th IIUPC	30	6th, 9th, 10th Best Female
2014	CUET	CUET IUPC 2014		7th, 9th, 10th & 12th
2014	Green Tech Institute of Business & Science	Int'l Contest on Programming & Systems Development-2014		3rd
2014	BUBT	ACM ICPC 2014		Honorable Mention
2014	IIUC	11th IIUPC	32	3rd
2015	NSU	ACM ICPC Dhaka 2015	122	76th
2015	SUST	SUST 5th CSE Carnival 2015	111	58th
2015	DIU	National Girls' Programming Contest 2015	64	37th
2015	IIUC	12th IIUPC 2015	30	3rd , 5th
2016	EATL- Prothom Alo	EATL- Prothom Alo App Contest 2016		1st Runner up of Category A
2016	Bangladesh Mathematical Society, Centre: CUET	8th National Undergraduate Mathematics Olympiad 2016	112	7th
2017	Bangladesh Mathematical Society, Centre: CUET	9th National Undergraduate Mathematics Olympiad 2017	110	6th
2016	UAP	UAP NCPC 2016	119	59th
2016	UAP	ACM ICPC 2016		59
2016	IUT	IUT IUPC 2016		92
2017	UIU	NCPC 2017		66
2017	UAP	ACM ICPC 2017		44th
2017	SUST	SUST 2017		65th
2017	IIUC	13th IIUPC		2nd
2017	CUET	CUET IUPC 2017		6th
2017	IUT	IUT 9th ICT FEST 2017 (App Development Competition)		Champion



A picture of the beginning of the rally to mark the 15th anniversary of the computer club



A view of distribution of Eid content among orphan students organized by Computer Club



A daylong workshop on MATLAB organized by Computer Club

Year	Venue/Organizer	Name of the Contest	Total No. of teams	IIUC rank
2012	CUET	CUET IIUPC 2012		6th position
2012	IIUC	9th IIUPC 2012	27	7th, Best Female Team
2012	IUT	IUT IT Cyber Security Contest 2012	19	5th
2012	IUT	IUT IT Fest Programming Contest 2012	110	29th & 34th
2012	DIU	ACM ICPC 2012		55th
2013	CUET	CUET CSE Fest 13		7th, 9th, 10th
2013	NSU	ACM-ICPC 2013		52nd
2013	IIUC	10th IIUPC	30	6th, 9th, 10th Best Female
2014	CUET	CUET IUPC 2014		7th, 9th, 10th & 12th
2014	Green Tech Institute of Business & Science	Int'l Contest on Programming & Systems Development-2014		3rd
2014	BUBT	ACM ICPC 2014		Honorable Mention
2014	IIUC	11th IIUPC	32	3rd
2015	NSU	ACM ICPC Dhaka 2015	122	76th
2015	SUST	SUST 5th CSE Carnival 2015	111	58th
2015	DIU	National Girls' Programming Contest 2015	64	37th
2015	IIUC	12th IIUPC 2015	30	3rd , 5th
2016	EATL- Prothom Alo	EATL- Prothom Alo App Contest 2016		1st Runner up of Category A
2016	Bangladesh Mathematical Society, Centre: CUET	8th National Undergraduate Mathematics Olympiad 2016	112	7th
2017	Bangladesh Mathematical Society, Centre: CUET	9th National Undergraduate Mathematics Olympiad 2017	110	6th
2016	UAP	UAP NCPC 2016	119	59th
2016	UAP	ACM ICPC 2016		59
2016	IUT	IUT IUPC 2016		92
2017	UIU	NCPC 2017		66
2017	UAP	ACM ICPC 2017		44th
2017	SUST	SUST 2017		65th
2017	IIUC	13th IIUPC		2nd
2017	CUET	CUET IUPC 2017		6th
2017	IUT	IUT 9th ICT FEST 2017 (App Development Competition)		Champion



A picture of the beginning of the rally to mark the 15th anniversary of the computer club



A view of distribution of Eid content among orphan students organized by Computer Club



A daylong workshop on MATLAB organized by Computer Club

The activities of the Department of CSE in the last one-year (2017):

Date	Name of the Event
2017.01.20	Programming Contest
2017.01.22	Winter Cloth Distribution
2017.02.03	Farewell of 34th Batch & Fresher's Reception of 43rd Batch
2017.02.17	Day Long Workshop on Android App Development
2017.02.20	Seminar on Learn Without Limits: Current CSE Trends and Research
2017.04.21	CSE Alumni Reunion 2017
2017.06.21	Project Eid Share
2017.07.20	First Programming Workshop [A event of Programming Society]
2017.07.26	15- Year Celebration of Computer Club
2017.08.10	Farewell of 35th Batch & Fresher's Reception of 44th Batch(Female)
2017.08.11	Farewell of 35th Batch & Fresher's Reception of 44th Batch(Male)
2017.08.13	MASLab Presents Basic Arduino Workshop
2017.08.17	Day Long Workshop on IoT Cloud Architecture
2017.10.11	Departmental Orientation
2017.10.24	Programming Contest
2017.10.26	Intra Department Math Olympiad organized by CSE Math Olympiad Committee
2017.11.13-16	Football Tournament
2017.11.16	Fresher's Reception of CSE 45th Batch
2017.11.15-16	Hackathon (sub event of Techfest)
2017.11.16	Programming Workshop
2017.12.20-21	TechFest (Jointly Organized With Other club of FSE)
2017.12.28	Weekly Programming Workshop
2017.12.28	Weekly Programming Workshop (2 on same day)



Faculty Members are seen at a Eid Reunion Program organized by Islamization Committee, CSE



Faculty Members are seen at a discussion meeting and Iftar Mahfil organized by Islamization Committee, CSE



Dr. Md. Anisul Karim, Data Scientist, Melbourne, Victoria, Australia is delivering his speech at a seminar on Data Science at IIUC



A view of the exciting moment of Inter Semester Football Tournament organized by Computer Club



A view of the inaugural session of Inter Semester Football Tournament organized by Computer Club



Professor Dr. Md. Delwar Hossain is giving a crest to Dr. Md. Anisul Karim

**Current Information of Students per Semester in the department of CSE, IIUC
(Autumn 2012 to spring 2017):**

1st Semester (Average of last 4 semesters)		Average of last 10 semesters			
		1st Semester		Graduates	
Number of Applicants per Seat	GPA(HSC+SSC)	Registered per Semester	% pass	Graduates per Semester	CGPA
2.92	8.96	156	93.06	52.00	3.262

Current Number of Teachers and Students (Autumn 2017 Session):

Number of Students		Number of Teachers		Student-Teacher Ratio
Male	Female	Regular	Guest	
773	479	41	48	20:1

Number of Graduates from the Department of CSE up to November 2017:

Male	Female	Total
1078	449	1527



Dr. BM Mofizur rahman addressing the session at a discussion meeting organized by Islamization Committee, CSE



Members of the computer club are seen with faculty members



Photo session after successful completion of day-long workshop on Android Apps organized by Computer Club



Photo session after successful completion of the day-long workshop on IoT Cloud Architecture organized by Computer Club

Co-Curricular Activities :

Computer Club is a well-organized organization run by the students with the active supervision of the teachers. This computer club publishes digital magazines, organizes various competitions such as programming contests, software contests, quiz competitions, IT debates, study tour, freshers' reception and farewell ceremony, cricket tournament, football tournament, cultural program, rally etc. Members of the Computer Club take part in various social and humanitarian activities such as winter cloth distribution, blood donation, and food distribution among casualties etc. This club collaborates in the Tech Fest / IT Festival every year, where all departments under the Faculty of Science & Engineering, IIUC and participants from other universities also participate.

Research Activities: Students of this department participate in various national and international seminars each year and present their articles. Each year, students of this department publish a good number of articles in different recognized journals.

Seminars & Workshops: A number of seminars and workshops are organized by the seminar committee of CSE department in each semester, where the speakers from home and abroad talk about contemporary issues on ICT and participate in discussions with teachers and students.

Math Olympiad

Math Olympiad is held under the supervision of the Math Olympiad Committee every year. Those who achieve first, second and third positions are rewarded by the University and they take part in the regional and national math Olympiad. Meanwhile, our boys and girls were rewarded in the regional math Olympiad in 2016 and 2017.

Press and Publication

There is a publication unit in the CSE department under whose supervision magazines, brochures, leaflets, booklets etc. are published. Among them, Gateway 2005, Souvenir 2017 on the occasion of CSE alumni reunion are notable.

Islamization Committee

There is a unit in the department which organizes different programs in pursuit of moral development of students, teachers, staff and environment. The programs include Iftar Mahfeels, discussion programs, seminars, workshops etc. where renowned Islamic scholars deliver speech and interact with the audience.

Industrial Training, Collaboration, Placement, and Accreditation Committee (ITCAP)

The key to collaboration between University and Industry is building a strong relationship in which each entity is

benefitted considerably. Collaboration gives the industries access to a greater breadth and depth of knowledge and technologies that would normally be unavailable through internal development. From the Universities perspective, benefits from the collaboration fall under both public and private funding opportunities and increase income through licensing and patenting. Through these relationships, students and researchers also gain exposure to practical problems and potential employment opportunities.

Department of CSE is continuously trying to increase bonding with different renowned ICT industries. Within one year, top executives of leading software firms like Leadsoft, Nascenia, ThemeExperts visited IIUC campus to train the students' of CSE cutting-edge technologies and best practices of the software industries. They also contributed by reviewing the B.Sc. Engineering syllabus of CSE, IIUC and by providing their valuable feedback. As a result, students of CSE are getting more opportunity for internship and job in the renowned software firms.



A group of IUC participants appeared at the National Math Olympiad 2016 at the CUET



A view of the farewell of 34th batch and the reception ceremony of 43th batch hosted by the computer club



A view of the reception ceremony of 45th batch hosted by the computer club



A group of Nigerian students of the dept. of CSE, IIUC are seen at IIUC campus

Previous Publication by the Dept. of CSE Edited by A.N.M. Rezaul Karim



Gateway, 2005



CSE Brochure



**Souvenir, 2017
CSE Alumni Reunion**

benefitted considerably. Collaboration gives the industries access to a greater breadth and depth of knowledge and technologies that would normally be unavailable through internal development. From the Universities perspective, benefits from the collaboration fall under both public and private funding opportunities and increase income through licensing and patenting. Through these relationships, students and researchers also gain exposure to practical problems and potential employment opportunities.

Department of CSE is continuously trying to increase bonding with different renowned ICT industries. Within one year, top executives of leading software firms like Leadsoft, Nascenia, ThemeExperts visited IIUC campus to train the students' of CSE cutting-edge technologies and best practices of the software industries. They also contributed by reviewing the B.Sc. Engineering syllabus of CSE, IIUC and by providing their valuable feedback. As a result, students of CSE are getting more opportunity for internship and job in the renowned software firms.



A group of IUC participants appeared at the National Math Olympiad 2016 at the CUET



A view of the farewell of 34th batch and the reception ceremony of 43th batch hosted by the computer club



A view of the reception ceremony of 45th batch hosted by the computer club



A group of Nigerian students of the dept. of CSE, IIUC are seen at IIUC campus

Previous Publication by the Dept. of CSE Edited by A.N.M. Rezaul Karim



Gateway, 2005



CSE Brochure



**Souvenir, 2017
CSE Alumni Reunion**



A Brief Overview on Department of EEE, I

Muhammad Athar Uddin

Associate Professor and Chairman
Dept. of Electrical & Electronic Engineering (EEE), I

Welcome to the department of Electrical and Electronic Engineering (EEE) at International Islamic University Chittagong. The Department runs an undergraduate program, namely Electrical and Electronic Engineering (EEE). The field of Electrical and Electronic Engineering encompasses many exciting technologies such as power systems, electrical machineries, microelectronics, computer systems, communications system, Nano technology, biomedical system and etc. which have been among the fastest growing and most challenging technologies that enable the development of the modern information-based society.

The dept. established in Spring-2006 in Dhaka Campus, Dhaka and started in Spring-2007 in City Campus Chittagong. Dept. of EEE started its journey with 65 students and few teachers and staff.

Enrollment is twice in a year for the Bachelor Programs. It follows the open credit hour system. In EEE, students need 4 years for completing graduation. Each year includes 2 semesters. EEE dept. has been shifted to permanent campus at Spring-2009. EEE Female section started in Spring-2017 semester with 22 students. Currently about 70 students are studying in this dept. Experienced and Rich Regular Faculty Members with foreign degrees. Total number of Faculty members is 46, currently in active service are 30. 16 Faculty members are in higher study.

"The Mission of the Electrical and Electronic Engineering program is to offer the strong academic program needed to produce well-educated students who can become productive members of the Electrical and Electronic Engineering profession. This mission is consistent with the academic component of the University's mission, which is in part to provide a strong academic program in engineering."

Our vision is to place this department as a Center of Excellence in higher education and research. With this end in view, we want to provide our students with a strong theoretical foundation, practical engineering skills, experience in interpersonal communications and teamwork, and a daily emphasis on lifetime ethics & values, professional conduct and critical thinking.

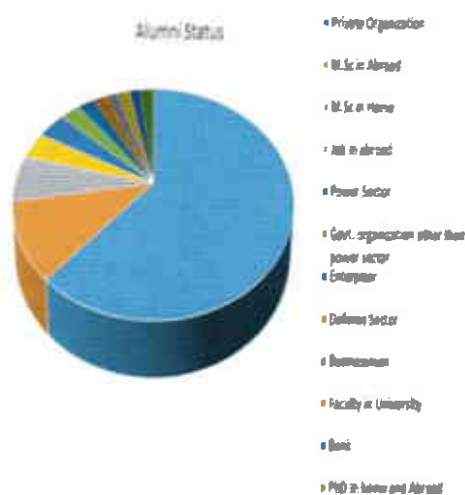
"The Objective of the undergraduate Electrical and Electronic Engineering program is to instill in IIUC graduates the knowledge, skills, attitude, and ethical values necessary to be successful practitioners who are able to impart positive social impacts at the state, regional, national, and international levels. Additionally, IIUC seek to provide the necessary academic background for Electrical and Electronic Engineering graduates pursuing advanced degrees."

The Department currently has 46 faculty members whereas 30 faculty members are in active services including one Professor, three Associate Professors, and five PhD holders with several foreign degrees from different prominent universities around the world. Currently 16 faculty members are in higher study. The dept. also has 13 administrative staff to run the dept. smoothly. The most remarkable strength of this dept. is very good student teacher ratio that is 20:1. We have 10 laboratories with advanced equipments and facilities for supporting our teaching and research. The Department's web site (<http://www.iiuc.ac.bd/eee>) provides a range of information about the Department.

Achievements of the Department

Alumni Employment and study information

This survey has taken on 260 [25% (approx. of total)] EEE graduates who are working in different sector and study in home and abroad.



Job Area	Student no.	(%)
Private Organization	160	61.5
M.Sc. in Abroad	28	11
M.Sc. in Home	17	6.5
Job in abroad	10	4
Power Sector	10	4
Govt. organization other than power sector	7	3
Enterpriser	6	2.5
Defense Sector	5	2
Businessman	4	1.5
Faculty in University	4	1.5
Bank	4	2
PhD in home and Abroad	5	2
Total	260	100

Research Publications

48 research articles were published from 1st June 2016 to 31st March 2017. 18 research articles were published between 1st April 2017 to 31st December 2017 in different International Journal and Conferences.



Category: General Science & Engineering (Maximum 18 awards)

Date of Award at Dhaka: 15 December 2017

Ranking	Applicant ID	GP (2014)	Paper Title	Name of Author(s)	Status
1.	2016057	81.36	Superconducting Oxide: Perovskite Biomate Oxide Prepared by a Low Temperature Hydrothermal Reaction	Mirza H. K. Rahat, Akira Mura, Toshiro Taka, Nobuhito Kumada, M. Mosharraf Ali, Omasumi Nagao, Masahito Watanabe, Ikuo Tanaka, J. and A. K. M. Arshad Islam	Selected
2.	2016047	7.994	Simple top-down preparation of magnetic Ba0.9Gd0.1Fe2-xTiO7-x nanoparticles by Quader, M. A. Rahman, B. I. ultrastructure of multiferroic bulk ferroelectric bulk material	Quader, M. A. Rahman, B. I. ultrastructure of multiferroic bulk ferroelectric bulk material	Selected
3.	2016011	4.504	Electroreduction of nitrate ions at a platinum-copper electrode in an alkaline medium: influence of sodium ion concentration	Amuthasingh, M. A. Muneem, M. M. Muneem	Selected
4.	2016039	4.504	Catalytic Oxidation of an Organic Dye through Electroreduction of Dissolved Oxygen in Aqueous Solution	Tamanna Islam Farhana, M. Yousuf, Md. Abu Hanif Hasan, Md. Abu Hanif Hasan, Md. Abu Hanif Hasan, Md. Abu Hanif Hasan	Selected

Industrial Tour and Extra Curricular Activities

Final year students go for one month Industrial Training in Training Institute for Chemical Industries (TICI), Narsindi every year. Students also go for Industrial Attachment in GEM Plant, BSRM, Phartoli Textile Mills Ltd., PGCB Khulsi Grid, Sikalbaha Power Plant etc. Science Olympiad held at IIUC in each year. Besides these, IIUC Tech Fest also held in every Year.

EEE club: Activities (Last one year)

- Fresher Reception
- Farewell program for outgoing students
- Seminar
- Workshop
- Robo-fight Competition
- Quiz Contest
- Indoor Games
- Cricket/Football Tournament
- Study Tour
- EEE Fest
- Numerous Social work

EEE Club



Seminar on Solar Photovoltaic Energy in 100% Cleaner Energy World Vision by 2050



Industrial Tour



Sports



BBQ Party



Social Work



Study Tour

EEE Club



Quiz Contest



Circuit Solution Contest



Idea Generation



Project Showcase



Workshop



Study Tour (Sylhet)



A Brief Overview on the Department of ETE, IIUC

Engr. Md. Jashim Uddin

Chairman & Assistant Professor

Dept. of Electronic & Telecommunications Engineering (ETE) , IIUC

Introduction:

Department of Electronic & Telecommunication Engineering (ETE) is one of the departments of Faculty of Science & Engineering (FSE) was established on December 15, 2010. In this department, there are 11 permanent faculty members, around 350 students, 7 classroom & 5 Labs named Telecommunications Lab, Computer Lab, Internet and Simulation Lab, Electronics Lab and Electrical and Measurements Lab.

More than 200 students were graduated from the department are successfully pursuing higher studies in abroad, doing jobs in government, semi government & private jobs in home & abroad.

To promote the department & engaged the students with co- curricular activities, IIUC Telecom Club is formed under supervision of the pioneer Late Abdullah Al Masud. At present, Engr. Md. Jashim Uddin (Asst. Professor & Chairman, Dept. of ETE), Muhammad Mostafa Amir Faisal (Asst. Professor, Dept. of ETE) and Saif Hannan (Asst. Professor, Dept. of ETE) have been serving as the President, Vice President & Treasurer respectively. MD. Maruful Hasan Sabbir is serving as the General Secretary from the students & Md Kamruzzaman and Tamzid Uddin are Assistant General Secretaries of the club for Autumn 2017.

Achievement Highlights:

Students from ETE Department are regularly participating in different events & competitions hosted by IIUC as well as other universities all over the country. In most cases, they succeeded by showing their potentials by the direct supervision and support of IIUC Telecom Club.

Some of the highlighted achievements are:

Year	Competition/Program	Host	Event/Category	Position
2018	Digital Innovation Fair	District Administration, Chittagong	Innov-A-Thon	Best Young innovator
2018	National Physics Olympiad 2018	Bangladesh Physics Olympiad Committee	Inter University Project Show	Champion
2017	Tech Fest 2017	IIUC	Inter University Robo-Fight	Champion
			Inter University Project Show	Champion
			Inter University Idea Generation	Runner Up
			Poster presentation	1st Runner Up & 2nd Runner Up
			Tech Olympiad	Runner Up

2017	IEEE Spectra	IIUC	Project Show Competition	Champion & Runner Up
2017	EEE Day 2017	BUET	Inter University Project Show (Senior Category)	Honorable Mention
2017	Inter Dept. Football Tournament	IIUC	Football Tournament	Champion
2016	CUET CSE Fest	CUET	Inter University Project Show	Champion
2016	BAIUST EEE Day	BAIUST	Inter University Project Show	Champion
2016	ICISSET 2016	IIUC	Inter University Project Show	Runner Up
2015	Tech Fest 2015	IIUC	Project Show Competition	Champion, 2nd Runner Up & Best Emerging Young Engineer
			Robo-Fight Competition	Champion & 2nd Runner Up
2014	Tech Fest 2014	IIUC	Project Show Competition	2nd Runner Up & Best Emerging Young Engineer
			Tech Quiz Competition	Champion, 3rd Place & 4th Place



Best Young Innovator in Digital Innovation Fair 2018
by District Administration, Chittagong



Champion in Project Show, CUET CSE FEST 2016

Glimpses from the Recent Activities of ETE Department:

Seminars:

In every session, some technical & non-technical seminars are organized by IIUC Telecom Club as students can be updated with recent engineering & technological trends. Recently a seminar titled by **Evolution of Cellular Communication: 2G,3G,4G & Beyond** held on November 11, 2017 where the resource person was from Islam University of Technology (IUT). Besides, seminars were arranged on different topics like **Cisco Certified Network Associate (CCNA), Higher Study Abroad, English & Math proficiency test for higher study** etc. Nationally internationally recognized resource persons are invited to conduct the seminars.



Intra ETE Robo-Fight Competition 2017;
November 06, 2017



Seminar on Evolution of Cellular Communication:
2G, 3G, 4G & Beyond; November 11, 2017



ETE Day Celebration 2017; December 15, 2017



Farewell Felicitation, Spring 2017; January 21, 2018

Workshops & Skill Development Trainings:

Department of ETE organizes workshop & skill development training on different topics regularly so that students can be skilled in some specific areas. In 2017, there were two workshops on robotics organized. First one is about **Basic Robot Design & Microcontroller Programming** held on May 14, 2017 & another one is about **Line Following Robots** held on August 16, 2017. After these workshops, students became capable of making robots & participated in various robotics competitions. Beside robotics, some workshops were arranged on **Latex, C Programming** etc.

Competitions:

Intra ETE Robo-Fight Competition 2017, which was the only Robo-Fight competition organized by any individual department in IIUC held on November 06, 2017. Around 8 teams participated in the competition.

Foundation Day Celebration:

For the first time in IIUC, foundation day of an individual department was observed on December 15, 2017. The **"ETE Day Celebration 2017"** was organized on the occasion of 7th anniversary of ETE Department, IIUC which was observed with Rally, friendly cricket match, memory sharing, Cultural night etc.



Bar-B-Q festival by ETE



Cultural Contest; July 25, 2017



Dorpone Ghunpokaat, Inter Club Drama Festival 2017



Champion trophy reception from Honb. Vice-Chancellor, IIUC



Industrial Tour at BAF Johurul Hoque Base

Cultural & Theater:

To spread the sound culture among the students, ETE department works with cultural team who are dedicated to entertain and train the students in an enthusiastic manner. To create these kind of individuals, a **"Cultural Contest"** is arranged every year in different categories like Quran Recitation, Patriotic & Islamic song, Free hand acting, Instantaneous speech, Poem recitation etc. The last Cultural Contest was held on July 25, 2017.

Department also have a theater team who stage drama in every year especially for Inter Club Drama Competition. In 2017, the team staged a drama titled **"Dorpone Ghunpoka"** at IIUC Auditorium.

Sports Competition:

In every semester, Department organizes different types of sports tournament such as Football, Cricket, Badminton etc. Last year, two tournaments were organized titled "Inter Semester Football Tournament 2017" & "ETE Badminton Tournament 2017"

Another competition was organized for the students of ETE entitled "Intra Departmental Indoor Game Competition 2017" on September 14, 2017. There were three indoor events (Chess, Carom & Snake LUDU

Fresher's Reception & Farewell Felicitations:

Fresher's Reception program is organized for newly enrolled students of the department to interact with the department in every semester. Likewise, Farewell Felicitations program is also organized for the outgoing students of the department.

Iftar Mahfil:

Every year, for all the members of ETE family, an Iftar Mahfil is organized where a discussion program is included by a well-known Islamic scholar. Last year, the Iftar Mahfil & Discussion on Takwa was held on June 12, 2017 in Hotel Zaman.

Social Activity:

As a part of social responsibilities, ETE Department along with Telecom Club organizes Blood Grouping Camp, Winter Cloth Distribution, Fund for Flood Relief etc.



A Brief Overview on the Department of PHARMACY, IIUC

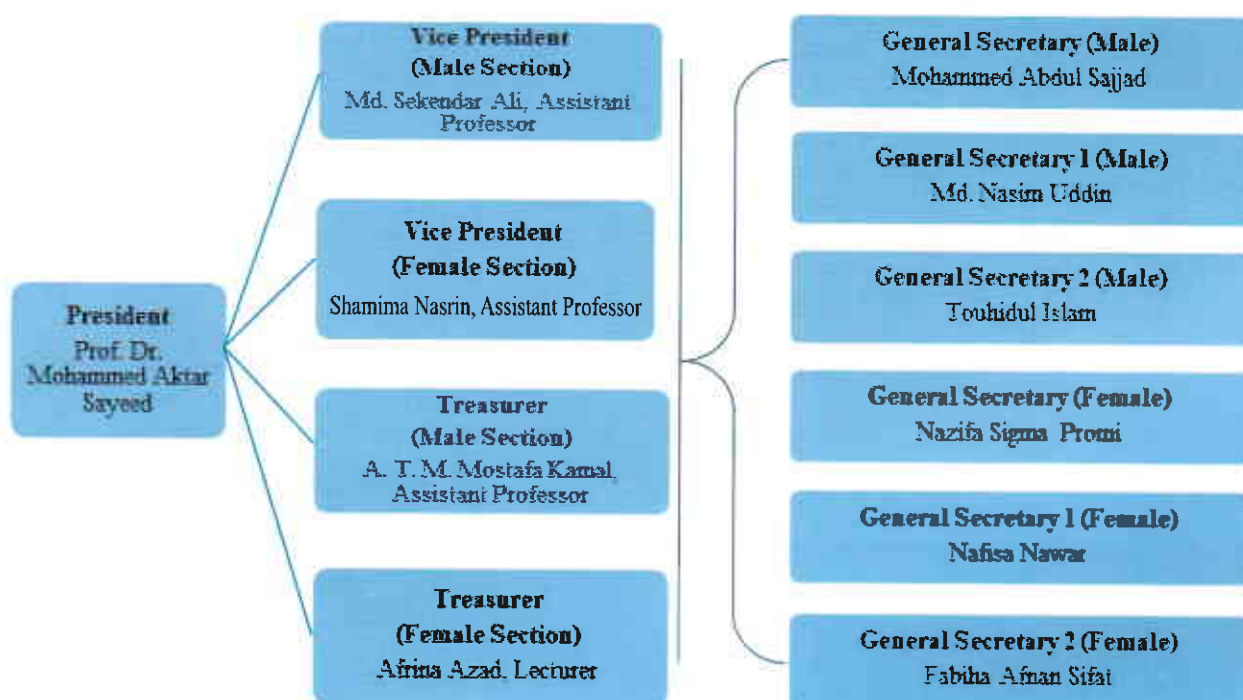
Md. Masudur Rahman

Assistant Professor and Chairman
Department of Pharmacy, IIUC

Department of Pharmacy under Faculty of Science & Engineering, International Islamic University Chittagong started its journey in 2007 with a mission "to produce future's pharmacist who will be professionally as well as socially and ethically responsible". To meet the goals, a group of 20 permanent faculty members working coherently. There are approx. 300 female students & 350 male students, 11 classrooms and 12 Labs in male & female sections of the department.

More than 300 students graduated from the department successfully. Our graduates are working in different reputed pharmaceutical industries, healthcare institutions, community pharmacy and in government and other private sectors. Besides a number of outstanding students are pursuing higher studies in abroad.

IIUC Pharma Club is formed to create a common platform for co-curricular activities where students participate in various cultural & social programs, which help them in socialization, self-identification and self-assessment. The President, Vice Presidents & Treasurers are selected from faculty members and General Secretary & Assistant General Secretaries are elected from the students of the department. The basic organogram and the members of the club for Autumn 2017 semester is given below:



Achievement Highlights:

Students of the Pharmacy Department are regularly participating in different events & competitions hosted by IIUC as well as other universities and nationally.

Some of the highlighted achievements are:

Year	Competition/Program	Host	Event/Category	Position
2017	Tech Fest 2017	IIUC	Intra University Medicinal Plant Show	Champion, Male & Female Runner Up, Male & Female
			Inter University Idea Generation	Runner Up, Female
2015	Tech Fest 2015	IIUC	Inter University Idea Generation	Runner Up, Female



Seminar on Time Management



Study Tour at Sylhet in 2017



Freshers' Reception of Autumn-2017 Semester



Farewell program of 14th batch

Recent Activities of Pharmacy Department at a glance:

Seminars & Workshops:

In each semester, IIUC Pharma Club organizes different seminars & workshops. Recently a seminar on "Time management" held on August 22, 2017. Besides a workshop on "Research Methodology" arranged on June 20, 2017 by the club.

Sports Competition:

IIUC Pharma Club organizes different types of sports tournaments such as Football, Cricket, Badminton etc. Last semester, two tournaments were organized titled "Inter Semester Football Tournament 2017" & "Inter Semester Cricket Tournament 2017". In addition "Departmental Indoor Games Competition 2017" was organized for the students of the department. There were different events present like Chess, Carom, Ludo, Sudoku, Dartboards etc.

Fresher's Reception & Farewell Felicitation:

Fresher's Reception program is organized for newly enrolled students of the department to interact with the department. Likewise, Farewell Felicitation program is also arranged for the outgoing students of the department.



Industrial Visit at Bio Pharma Ltd



Industrial Visit at Albion Pharmaceutical Ltd.



Observation of "World Pharmacists Day-2017"



Free Blood Grouping, Tech Fest 2015

Industrial Visit:

To familiar with the practical insight of the pharmaceutical industry, Department of Pharmacy arrange industrial visit for the students. In the last session, the students visited two pharmaceutical industries: Bio Pharma Ltd. and Albion Pharmaceutical Ltd. on August 10, 2017 and May 05, 2017 respectively.

World Pharmacist Day Celebration:

"World Pharmacist Day 2017" was observed on September 25, 2017. The theme of the day was "From research to healthcare: Your pharmacist is at your service".

Study Tour:

Department of Pharmacy organizes study tours in each year to welcome break in the routine for both students and teachers. Students gain knowledge and upgrade their skills by using the new concepts they learn from the educational tours.

Social Activity:

As a part of social responsibilities, Department of Pharmacy along with IIUC Pharma Club organizes Free Blood Grouping Camp, BMI Checking, Awareness Program, Winter Cloth Distribution, Fund for Flood Relief etc.

Advanced Waste to Energy (WtE) Technology for Bangladesh

Poster Design Competition (Champion)

S.M. Tahsin Labib, Sohan Ul Alam

Dept. of EEE, IUC

Introduction:

Waste-to-Energy technology (WtE) is an emerging technology of the present world. Waste everywhere is an urgent disposal which requires manpower, cost, and proper space; so waste management is a challenge for government and city authority. Many countries such as Japan, Middle East, USA etc. have adopted WtE technology for waste management and to produce significant energy from waste. Waste-to-Energy (WtE) technologies cover any waste treatment process that creates energy in the form of electricity, heat or transport fuels (e.g. diesel) from a waste source. Then, the power can be produced and distributed through local and national grid systems. Even though there are several methods of waste-to-energy (WtE) technologies but still selection of a suitable method for a specific country as well as city is an important issue in perspective of its economy, energy efficiency and environmental aspects. That's why, our research motive is to choose the most effective method among all technologies in perspective of our country economy, environmental impact and energy efficiency to produce energy i.e. electricity from waste in an efficient and cost effective way with less environmental impact. This method will help us to make a green-smart city and also, the energy produced in this method can contribute significantly to reduce our electricity shortage with less environmental impact.



Purpose:

The purpose of this research work can be summarized as follows...

- ☐ Choosing a more suitable and effective method among WtE technologies in perspective of our country economy and environment that can sustain with our future power demand.
- ☐ Generating significant energy from waste in cost efficient way to contribute to our growing power demand.
- ☐ Lesser greenhouse gas emission during process.
- ☐ Higher energy efficiency.
- ☐ Proposal for a green and smart city.

Overview of Emerging WtE technologies:

Incineration	Anaerobic Digestion	Gasification
Thermal Conversion	Biochemical Conversion	Thermo-chemical Conversion
Complete Oxidation of waste matter	Enzymatic decomposition of waste matter	Partial Oxidation of waste matter
End product is steam which is used to produce electricity	End product is Biogas and Methane gas which is used to produce electricity	End product is steam and syngas. Syngas is primarily CO and H ₂ . Steam and Syngas is used to produce electricity

Comparative study:

Some key differences of WtE Technologies are given below:

Incineration	Anaerobic Digestion	Gasification
Designed to maximize the conversion of feedstock to CO ₂ and H ₂ O	Designed to maximize the conversion of feedstock to CH ₄	Designed to maximize the conversion of feedstock to CO and H ₂
Large quantities of oxygen needed	No oxygen needed	Limited quantities of oxygen
Treated flue gas discharged to atmosphere	Treated flue gas is used at some extent but CO ₂ is discharged to atmosphere	Treated syngas is used for chemical production and power production
Material handling and preparation is complex	Material handling and preparation problems can arise	Material handling and preparation is simple

Results:

Electrical Efficiency of Incineration vs Anaerobic Digestion vs Gasification are stated below:

Technology	Electrical Efficiency
Incineration	20-25%
Anaerobic Digestion	30-35%
Gasification	40-45%

Net Energy Generation Potential per Ton MSW:

Technology	Energy Potential (KWh per ton MSW)
Incineration	585
Anaerobic Digestion	250
Gasification	660

Suitable Technology:

From the comparative study and results it is seen that **Gasification** has more advantages and higher potential than the other technologies.

Gasification technology structure:



Figure: Gasification Technology

Gasification Technology Process: The process of gasification starts from the collection of the Municipal solid waste. The waste trucks take the MSW to the gasification plant where it drops off its content into a waste storage where it waits to be used as fuel. From the waste storage the waste gets transferred to the area where it will undergo thermal treatment. In the heat exchange point the process creates two sources of energy: steam that is directed to a steam turbine in order to produce electricity, and syngas. The syngas is then treated in order to be cleaned up from sulfur and HCL. The clean syngas is then transferred into a gas turbine to produce electricity. It should be noted that at the stage of thermal treatment the leftover from the process is used to produce various consumer products.

Advantages over other WtE Technologies:

Some key advantages compared to other waste to energy (WtE) technologies are identified as follow:-

- ◆ Simple and robust design
- ◆ Flexible waste processing
- ◆ Minimal Land and Water Use
- ◆ Low Capital and Operating Costs
- ◆ Production of High Value Products
- ◆ All types of waste accepted except radioactive waste

Conclusion:

According to overall analysis we can say that among all of the WtE technologies in perspective of Bangladesh Gasification is the most cost effective, efficient, and environment friendly method of waste-to-energy (WtE) technology. Adopting this method will help us to produce electricity using waste for our growing power demand as well as to fulfill our vision of making a green, clean and smart city. At last, we can conclude that gasification WtE plants will also greatly benefit us with the following:

- ▶ Produce more energy i.e. electricity.
- ▶ Produce fewer emissions of criteria air pollutants
- ▶ Produce lesser emissions of CO₂
- ▶ Option for multiple end products

An article on project show

Project Show Competition (Best Wimen Team)

Wakia Tun Nur Nisha, Sanchita Sharma

Dept. of CSE, IIUC

We just had an amazing Tech Fest down at our University. It was really fun to participate in Project Showcase Competition. Our project was a 16*16 Dot Matrix Based digital learning display for kids especially for the children in rural areas having no electricity. The display can be showed with only a 6V battery. As the power needed to run the display is very low, Primary Schools can easily use this display to make the learning more enjoyable to the children. As children love the variety in everything, we've designed this system to make the learning procedure of Alphabets & Numbers more appealing to the children as well as to keep their mind aside from different harmful gadgets for eyesight. This project mainly illustrated the principle of dot matrix based digital with wireless control. It is a simple 16X16 LED-based matrix display which is framed by cascading four 8X8 dot matrix led displays. The display can be hanged anywhere on the wall and kids can control the display by an RF remote control. A button in the remote can switch the display from one mode to another mode. The modes are mainly Bengali vowels, Bengali consonants, Bengali numbers, English letters, English numbers and Arabic letters in order. After choosing a mode, the user can go to straightaway or past letter set or number by squeezing another two buttons of the remote. This system will be helpful for children to lessen their addiction to gadgets harmful for eyesight. In this design, we have implored the use of both hardware and software to bring about the entire project. The hardware components are solely coordinated by the ATmega 328P microcontroller chip while the C- programming language has used to program the chip. It was a great experience to create a variety of usual learning system for the children. In current nations, colleges, even schools use technologies to instruct the students. In Bangladesh, a few schools and universities have presented technology-based learning, yet at the same time, we are a long ways behind to present technology-based learning for kids at grade school. So we have tried to show one of our developed technologies which can help children to learn Bengali, English and Arabic letter sets and numbers. It was fun working on the project with my partner Sanchita Sharma and I hope we can do another project like that one again soon.

Team Photo



Wakia Tun Nur Nisha(on left) and Sanchita Sharma(on right)

An article on Robofight

Robofight Competition (Runner-up)

Sultan Mahmud Nahian , Yeasin Arafat Payek , Monjurul Hoque Chowdhury

Dept. of CSE, IIUC

Team X-Treme

We are the students of Computer Science and Engineering department in IIUC .In our team we are three members Yeasin Arafat Payek , Monjurul Hoque Chowdhury and Sultan Mahmud Nahian. We all are in same batch and same section.



Our journey begun by participating in the "Autonomous Robofight challenge" in SUST CSE carnival 2017. As we are technology lovers , We practiced and learned some basic robotics concept from our college & school life individually. Coincidentally we met each other in this university and By the grace of almighty Allah we formed a team called X-Treme in 1st semester .Our team is mainly focusing in robotics, artificial intelligent. We have just started our journey, to gain knowledge and experience .We participated in various robotics contests. Till now, we have participated 3 different robotics competition. Among them we have achieved Champions trophy in IIUC IEEE Spectra-2017 and Runners up Trophy in IIUC Techfest - 2018 Robo-fight.



Competition Time

In Robo-fight of IIUC Techfest 2018 we had to build a wireless controlled fighting robot. Our robot has its own power source which was powered by DC power battery. Two robots will be placed on the round arena. During the whole competition the environment was on our side but the finals was not in our favor. But all through it is a great achievement for us to come so far with our limited knowledge Alhamdulillah. We gained many knowledge and experience that was very important for us to our future.

In this project we divided ourself in two sectors, One is the mechanical/hardwire sector conducted by Yeasin Arafat and the other is the programming sector by Monjurul Hoque and Sultan Mahmud Nahian. We bought our products from various local market etc. Our robot's body was built by wood and steel sheets . In this project we use arduino uno as a microcontroller . The Arduino Uno is a microcontroller board based on the ATmega328 . It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz ceramic resonator, a USB connection, a power jack, an ICSP header, and a reset button. The ATmega328 has 32 KB (with 0.5 KB used for the bootloader). It also has 2 KB of SRAM and 1 KB of EEPROM . That's enough to control our robots . The Arduino Uno can be powered via the USB connection or with an external power supply. The power source is selected automatically. External (non-USB) power can come either from an AC-to-DC adapter (wall-wart) or battery. The adapter can be connected by plugging a 2.1mm center-positive plug into the board's power jack. Leads from a battery can be inserted in the Gnd and Vin pin headers of the POWER connector. The board can operate on an external supply of 6 to 20 volts. If supplied with less than 7V, however, the 5V pin may supply less than five volts and the board may be unstable. If using more than 12V, the voltage regulator may overheat and damage the board. The recommended range is 7 to 12 volts.

We use one power to supply to power all component . We use 12 volt DC power supply which is rechargeable battery . There are many type of rechargeable batteries like ,The Nickel Cadmium (NiCd) battery , The Nickel-Metal Hydride (NiMH) battery , The Lead Acid battery , The Lithium Ion battery , The Lithium Polymer battery. We use the Lithium Ion battery.

Through this project we have gained many experiences, which will lead us a step forward in fulfilling our dreams. We learn that in this kind of engineering sector giving up is not an option. Many failure will come but failures are meant to be learn from . We are still in a learning process and wish to participate in many robotics contests as possible .

With best compliments

Kazi Enterprize

The challenging day with a project on Echo sight

Kazi Sami Ullah, Mahtab Momen, Amanat Ullah and Mahfuzur Rahman

Dept. of ETE, IIUC

Visual impairment is a visual defect which reduces the ability of vision to a certain degree that could not be fixed by glasses or other usual means. On the other hand, blindness is the total inability to see anything. It is somewhat easier to feed data to a visually impaired person than a blind person by enhanced or highly adopted visual devices as the visually impaired people do have a very little sight while blind people don't have any idea of vision. We tried to design a device which could benefit both types of visually defected people. It is also aimed to gather more data around yet keeping the expense of the device compact and cheap.

The basic concept came from internet research and practical examples that we observed in previous Tech Fest and other project shows. Two common types of devices were presented frequently. One type of device is one or two ultrasonic sensors stuck with a cane that alerts the user by haptic feed or audio feed. Another type is a wearable device. The first thing came to mind was to replace a white cane used by a blind person and make a wearable device that would have some other features as well as the functionality of a white cane. The first prototype was a belt that had 4 ultrasonic sensors that could read the distance of obstacles in front, left, right and down of the user and gave haptic feed by 4 vibrations motor. The distance could be sensed by the user by the variation of vibrations as the distance increased or decreased.

By the grace of Almighty Allah, Our first prototype was selected Champion in IEEE Spectra 2017 project showcase competition. Though the project was planned right before the competition, we planned to take the project one step ahead of implementing the suggestion of the judges. Removing the vibration motors, we added an SD card (memory card) and an earphone port on the board. So, now the distance can be fed through Audio. Another feature was added that it could read the depth of the ground in front of the person. Also, another ultrasonic sensor was added in back. It gave the user almost 360-degree sense around.

The project was presented in Tech Fest 2017 and surprisingly we were selected Champion here also. It was a magical moment for team syndicate. The surprise was added by winning the Robot fight championship. It was a day of joy. The joy can't be expressed in words. We thank the Almighty for what we achieved, our teachers for their support and our IIUC-an brothers.

Anyway, the goal of our project was to ensure the cost of the device as low as possible yet providing the maximum functionality. Most of the blind assist devices are out of reach of average people in Bangladesh. So, we kept the production cost below 1500 TK for this device. Yet a lot of development is possible on this project, So we will try to add much more functionality and enhance the performance of the device.

Comprehensive Analysis of Cloud Attenuation Over Bangladesh for Microwave Communications

Poster Design Competition (2nd Runner Up)

Md. Imtiaz Kamrul, Kazi Mazharul Haque, Nasim Mahmud Tushar

Dept. of ETE, IIUC

Abstract: Microwave communications enhance the scope of large bandwidth. On the other hand, cloud, rain and some other environmental issues greatly introduce attenuation in microwave link. As Bangladesh is located in a subtropical region, Cloud causes rampant attenuation in microwave communication. For designing a microwave or satellite link, it is important to consider the effect of cloud attenuation. The dominance of cloud at Ku (12 and 14GHz), Ka (20 and 30GHz) and V (40 and 50GHz) bands are investigated in this poster. The investigation is also based on ITU cloud attenuation model. This poster considers 14 geographical stations to collect raw data of weather for a specific time period (1994-2013). Collected data are used to determine the cloud attenuation for different frequencies of Ku, Ka and V bands. The contour map is also designed for different bands of inaccessibility and our results show that the dominance of cloud attenuation is significantly occurred in the northern part of Bangladesh.

Introduction: Telecommunications have so many forms and types. Wireless communication provides mobility, flexibility and connectivity to the endangered geographical area. The demand of high data rate is considering a crucial issue for microwave communications link. Thus to overcome bandwidth limitation and wireless connectivity, microwave communication plays a vital role. However, the microwave frequency range (300 MHz-300GHz) can introduces the attenuation due to environment.

Objectives of our work:

- Observe & calculation of the cloud attenuation in Ka, Ku and V Bands in Bangladesh
- Simulation & contour map design over Bangladesh

Data and Results of Our Work:

Earth Stations	Cloud Coverage (oct) (1994-2013)
Barisal	3.7833
Chittagong	3.6000
Dhaka	3.7917
Sylhet	4.4000
Khulna	3.3917
Rajshahi	3.3083
Rangpur	3.6750
Teknaf	3.3500
Srimangal	3.7167

Table: Earth stations and cloud coverage



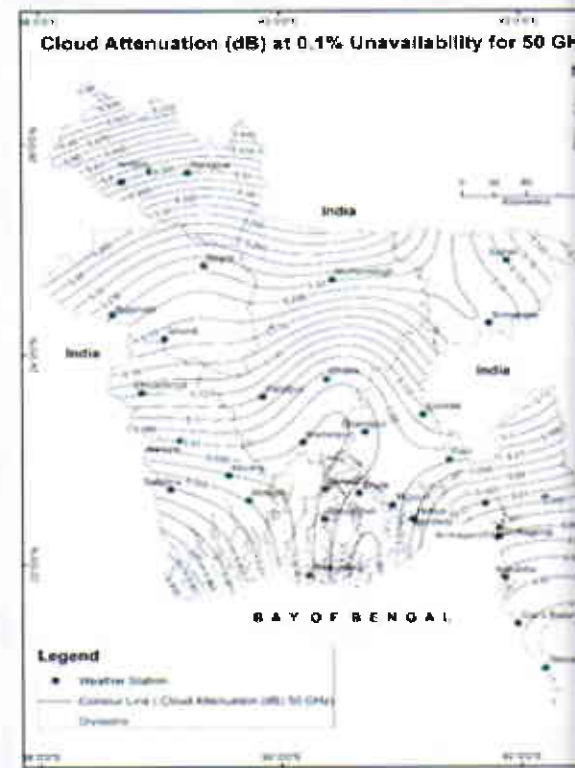
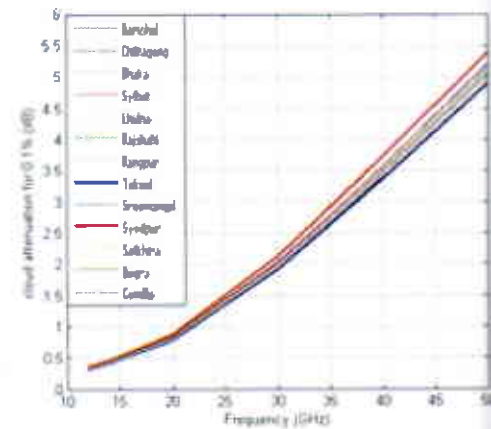
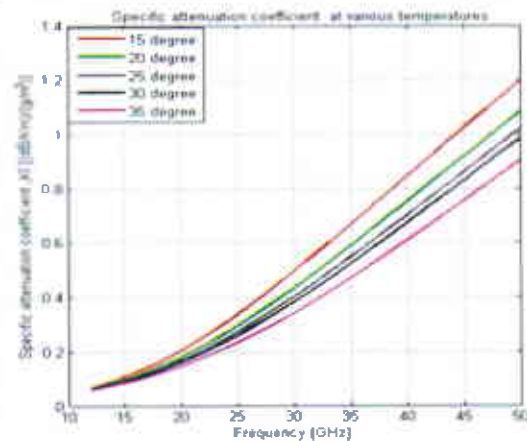


Fig.3 & 4.Cloud attenuation Contour map for Ku-band & V-band down connection (12 GHz) at 0.1% inaccessibility

Conclusion: Channel environment is an important topic for microwave or satellite communication. Rain, cloud and tropospheric scintillation degrade the signal strength. The paper has analyzed the dominant effect of cloud attenuation for microwave or satellite communication. The raw data are collected from Bangladesh Agricultural Research Council (BARC) and meteorological department of Bangladesh. Finally, the data are used to simulate the scenario of cloud attenuation by MATLAB for different geographical stations of Bangladesh. Contour map is designed by ARCGIS software for advocating the microwave link designer to give an initial idea about the effect of the cloud in Bangladesh. This work will be helpful for Engineers and researchers to analyze the link budget for microwave or satellite link in Bangladesh and similar sub-tropical areas.

Making A Sustainable and Reliable Platform to Solve All Our Daily Problems (Both Real and Digital) Using a Worldwide Platform

Hackathon Competition (Champion, Female)

Hosna Ara Begum & Tahsina Islam

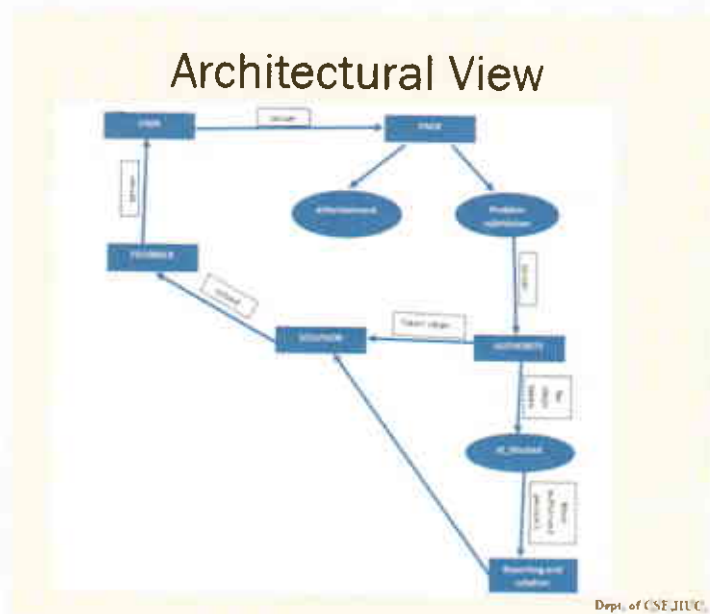
Department of CSE, IIUC

Abstract:

As we were given a problem for daily life to solve faster making a platform like Facebook. Thus, we tried to develop a platform which can solve all our daily problems. There were two types of daily problems one of Real world (like: Load shedding, Undeveloped drainage system, undeveloped transportation system etc.) and another was from Digital world (like: Cyber bullying, Blackmailing etc.). Our main intention was to make a strong network between people and authority to get instance action through notifying directly to the respective person and assuring the solution of the sufferings.

Introduction:

We were thinking of making a platform which will be flexible to use for user and easy to submit sufferings. And also, that platform will make the authorized member bound to give attention to the submitted problem and also, they have to take necessary steps to solve the problem through central observation.

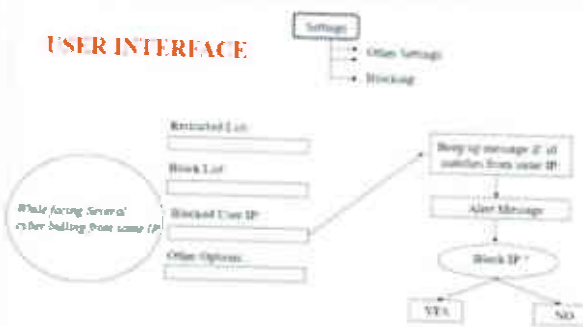


Overview:

Our platform will be a notifying platform like Facebook but our contribution will be notification counting. Means, the platform will use two types of sub platform one is for user and another is for authorized member. User can use that like daily using app for recreation and whenever they will face problem like: water blockage for undeveloped drainage system they can take the picture and post that on their timeline with location tagging the concern authority's page. Like this way when an authorized page will get 10+ notification then the authorized page will be blocked temporarily till they are taking their necessary steps. We have both online and offline services along with complaining in higher authority to ensure the actions. Both accounts will be secured through birth certificate number so that we can make sure that every person using this account in their daily life.

Rather there is another option to solve the digital world problem like multi accounts from same person or black-mailing through tracking the IP Address rather than taking only the mobile numbers or name. So that we can block the IP which is accessed for several times.

USER INTERFACE



Submission Panel



Notification Panel

• For User

- User Notification:
- 1. Feed back notification from authority (authority based)
- 2. normal notification

• For Authority

- Approved Notification (tagged notification based on priority for authority page)



PROTOTYPE



Conclusion:

This platform will provide all the sufficient support to submit any kind of problem within very few time. Moreover, it will overcome all the lacking of having a platform to submit problems. It will support us both in doing recreation and also to make a big platform in which all can share their good times and also sufferings directly to the concerned authority for getting best solution within least time. And in this way, we can be digitalized in this 3rd world with perfection and having all the security.



Dr. Md. Monirul Islam
Professor



Mohammed Shamsul Alam
Associate Professor



A.N.M. Rezaul Karim
Associate Professor



Mohammad Mahadi Hassan
Associate Professor



Md. Golam Rabiul Alam (SL)
Associate Professor



Fouzia Ferdous (SL)
Associate Professor



Tanveer Ahsan
Associate Professor



Dr. Abdul Kadar Muhammad Masum
Associate Professor



Shahidul Islam Khan
Associate Professor



Mohammed Shafiullah
Assistant Professor



Abdullahil Kafi
Assistant Professor



Shaikh Shariful Habib
Assistant Professor



Siddique Ahmed
Assistant Professor



Farhana Haider (SL)
Assistant Professor



Md. Atikur Rahman (SL)
Assistant Professor



Md. Mahiuddin
Assistant Professor



Mohammad Aman Ullah
Assistant Professor



Zinia Sultana
Assistant Professor



Muhammad Moazzam Hossen
Assistant Professor



Muhammad Jamshed Alam Patwary (SL)
Assistant Professor



Md. Borhan Uddin
Assistant Professor



Md. Mahmudur Rahman
Assistant Professor



Faisal Bin Al Abid
Assistant Professor



Mohammed Arif Hasnayeem
Assistant Professor



Mohammad Manjur Alam
Assistant Professor



Subrina Akter
Assistant Professor



Md. Khaliluzzaman
Assistant Professor



Lutfun Nahar
Assistant Professor



Touhidul Alam (SL)
Assistant Professor



Ahmed Shan-A-Alahi
Lecturer



A.B.M Yasir Arafat
Lecturer



Md. Rashedul Islam
Lecturer



Shayhan Ameen Chowdhury
Lecturer



Risul Islam Rasel
Lecturer



Saifur Rahman
Lecturer



Shamima Akter
Lecturer



Gulam Sarwar Chuwdhury
Lecturer



Md. Adil Mahmud Roman
Lecturer



Sanjida Sharmin
Lecturer



Rahima Afrose
Lecturer



Ahmed Imteaj
Lecturer



Sumaiya Deen Muhammad
Lecturer



Muhammad Kamrul Hossain Patwary
Lecturer



Md. Shahab Uddin
Lecturer



Saiful Islam
Assistant Lecturer



Israt Binteh Habib
Assistant Lecturer



Md. Salim Miah
Assistant Lecturer

Staff, Dept. of CSE



Md. Jamal Uddin
Senior Assistant Director



Md. Sahidul Anwar
Senior Lab Technician



Md. Shahin Miah
Senior Lab Technician



Md. Nezam Uddin
Senior Lab Technician



Mohammed Kamal Uddin
Senior Lab Technician



Farhana Yeasmin
Senior Lab Technician



Nargis Jahan
Administrative Assistant



Md. Shafique Uddin Haider
Lab Technician



Imam Uddin Iqbal
Lab Technician



Md. Jahirul Islam
Lab Technician



Rojina Begum
Lab Attendant



AsMd.ma Arjuma Begum
Lab Attendant



Selina Akter
Lab Attendant



Rubayed Afroza
Lab Attendant



Abul Kalam
Peon



Ahmed Imteaj
Lecturer



Sumaiya Deen Muhammad
Lecturer



Muhammad Kamrul Hossain Patwary
Lecturer



Md. Shahab Uddin
Lecturer



Saiful Islam
Assistant Lecturer



Israt Binteh Habib
Assistant Lecturer



Md. Salim Miah
Assistant Lecturer

Staff, Dept. of CSE



Md. Jamal Uddin
Senior Assistant Director



Md. Sahidul Anwar
Senior Lab Technician



Md. Shahin Miah
Senior Lab Technician



Md. Nezam Uddin
Senior Lab Technician



Mohammed Kamal Uddin
Senior Lab Technician



Farhana Yeasmin
Senior Lab Technician



Nargis Jahan
Administrative Assistant



Md. Shafique Uddin Haider
Lab Technician



Imam Uddin Iqbal
Lab Technician



Md. Jahirul Islam
Lab Technician



Rojina Begum
Lab Attendant



AsMd.ma Arjuma Begum
Lab Attendant



Selina Akter
Lab Attendant



Rubayed Afroza
Lab Attendant



Abul Kalam
Peon

Staff, Dept. of CSE



Solaiman Hossain



Mahmuda Khatun
Bearer



Shamsuddin
Bearer



Nur Nahar Begum Runu
Bearer

IT DIVISION



Md. Hasan

Tech Fest 2017



A moment of joy while receiving the award of TECH FEST- 2017



A moment of joy while receiving the award of TECH FEST- 2017



Dr. Md. Delawer Hossain
Professor



Muhammad Athar Uddin
Associate Professor



Dr. Md. Shamimul Haque Choudhury
Associate Professor



Mr. Md. Nazmul Hasan (SL)
Assistant Professor



Mr. Md. Shafiul Alam (SL)
Assistant Professor



Dr. Fakir Sharif Hossain
Assistant Professor



Dr. Sikder Sunbeam Islam
Assistant Professor



Engr. Md. Ataur Rahman (SL)
Assistant Professor



Engr. Md. Ismail Hossain (SL)
Assistant Professor



Engr. Sk. Md. Golam Mostafa
Assistant Professor



Mrs. Nargis Akter
Assistant Professor



Mr. Md. Jaynul Abden (SL)
Assistant Professor



Engr. Mohammad Faisal (SL)
Assistant Professor



Engr. Mohammed Abdul Kader
Assistant Professor



Engr. Md. Ahsanul Hoque (SL)
Assistant Professor



Mr. Sayed Allamah Iqbal
Assistant Professor



Mr. Md. Arifuzzaman (SL)
Assistant Professor



Engr. Md. Shahid Ullah
Assistant Professor



Engr. Iqbal Hossain (SL)
Assistant Professor



Engr. Khandakar Abdullah Al Mamun
Assistant Professor



Mr. Md. Jashim Uddin
Assistant Professor



Engr. Shafait Ahmed
Assistant Professor



Engr. Md. Atiqul Islam (SL)
Assistant Professor



Engr. Md. Rashidul Islam
Assistant Professor



Dr. Md. Mozahar Ali
Assistant Professor



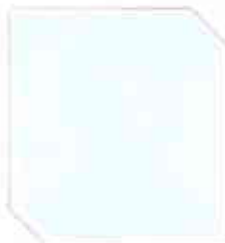
Mr. Md. Shafiullah (SL)
Lecturer



Mr. Mahmud Hasan (SL)
Lecturer



Engr. Meah Imtiaz Zulkarnain
Lecturer



Engr. Md. Aasim Ullah (SL)
Lecturer



Engr. Md. Abdur Rahman Munna (SL)
Lecturer



Mr. Md. Rasheduzzaman
Lecturer



Mr. Emranul Kabir
Lecturer



Mr. Md. Zahid Hasan (SL)
Lecturer



Engr. Md. Nazmus Sakib
Lecturer



Engr. Md. Jalal Uddin (SL)
Lecturer



Engr. Md. Ismail Haque
Lecturer



Engr. Md. Khurshedul Islam (SL)
Lecturer



Engr. Md. Lokman Hossain
Lecturer



Engr. Md. Eftekar Alam
Lecturer



Engr. Khaled Syfullah Fuad
Lecturer



Mr. Ashraf Uddin
Lecturer



Mr. Mohammad Mobarak Hossen
Lecturer



Mr. F.M. Tahazibul Hasib
Lecturer



Mr. M. Tanvirul Hoque
Assistant Lecturer



Mr. Md. Rakibul Islam
Assistant Lecturer



Mr. Md. Al Emran
Assistant Lecturer

Staff, Dept. of EEE



Md. Mostafa Helal
Admin. Officer



Md. Ali Murtuza



Md. Shafiqul Islam



Md. Shafiul Alam



Shafiul Azam



Abdullah Al Noman



Md. Ibrahim Khalil



Kazi Mahfuzur Rahman



Md. Abdur Rahman



Md. Harunur Rashid



Jesmin Akter



Md. Shahidul Islam



Mohammad Kawsar Uddin



Shamima Akter Sammi



Prof. Mohammad Ismail Chowdhury
Supernumerary Professor



Engr. Md. Razu Ahmed
Associate Professor



Engr. Abdul Gafur
Associate Professor



Engr. Abu Ridwan Md. Faisal (SL)
Assistant Professor



Engr. Mojaharul Islam (SL)
Assistant Professor



Engr. Md. Abdus Samad (SL)
Assistant Professor



Engr. Md. Tahidul Islam (SL)
Assistant Professor



Engr. Mohammed Jashim Uddin
Assistant Professor



Engr. Syed Zahidur Rashid
Assistant Professor



Mr. Muhammad Mostafa Amir Faisal
Assistant Professor



Mr. Saif Hannan
Assistant Professor (PHY)



Mr. Sakir Hossain
Assistant Professor



Mr. Abu Zafar Md. Imran
Lecturer



Mr. Mahedi Hasan
Lecturer (CSE)



Mr. Mohammad Woli Ullah
Lecturer (EEE)

Staff, Dept. of ETE



Mohamad Shahab Uddin
Assistant Director



Mr. Md. Zahid Hossain
Senior Lab Technician



Mr. Md. Ebrahim Khalil
Senior Lab Technician



Mr. Abdul Alim
Lab Technician



Mr. Md. Alauddin
Lab Attendent



AKM. Abdullahil Mamun
Lab Attendent



Dr. Mir Ezharul Hossain
Professor



Dr. Mohammed Aktar Sayeed
Associate Professor



Mohammed Abu Sayeed
Associate Professor



Md. Masudur Rahaman
Assistant Professor



Md. Mominur Rahaman
Assistant Professor



Md. Sekendar Ali
Assistant Professor



Md. Rafikul Islam (SL)
Assistant Professor



Md. Rabiul Islam (SL)
Assistant Professor



A. T. M. Mostafa Kamal
Assistant Professor



Kazi Ashfak Ahmed Chy
Assistant Professor



Md. Josim Uddin (SL)
Assistant Professor



Syed Mohammed Tareq
Assistant Professor



Md. Hazrat Ali
Assistant Professor



A.S.M. Ali Reza
Assistant Professor



Mst. Shamima Nasrin
Lecturer



Sanjida Sharmin
Lecturer



Afrina Azad
Lecturer



Md. Ashraf Uddin Chowdhury
Lecturer



Sanjida Islam
Lecturer



Riniara Khatun
Lecturer

Staff, Dept. of Pharmacy



Md. Nurul Azim Hamed
Assistant Director



A.H. Kazi Md. Illiasur Rashid
Library Officer



Md. Zahir Uddin Babor
Lab Technician



Md. Abdul Karim
Lab Attendant



Md. Abdur Rahman
Lab Attendant



Md. Shariful Islam
Lab Attendant



Md. Anisul Islam
Lab Attendant



Md. Ahsan Ullah
Peon



A.K.M Azizul Islam
Peon



Md. Mohiuddin
Bearer



Nasrin Sultana
Admin. Assistant



Kusum Akter
Lab Attendant



Rahima Jannat
Lab Attendant



Manu Akter
Lab Attendant



Jannatul Ferdous Asma
Bearer

Tech Fest 2017



Celebration with winner of ETE Department, TECHFEST 2017



participants of hackathon at mid night

Executive Committee

Computer Club (Male Section), Dept. of CSE, IIUC



Md Abdul Kayum Masum
General Secretary



Mohammad Kafil Uddin
Assistant General Secretary-1



Misbah Ahmad Chowdhury
Assistant General Secretary-2



Abdullah Al Musarraf
Assistant General Secretary-3



Sayem Bin Sarwar Chowdhury
Programming Contest Secretary



Ahasanul Kalam Akib
Assistant Programming Contest Secretary



Jakir Hussain Rifat
Assistant Programming Contest Secretary



A.K.M. Yasar
Assistant Programming Contest Secretary



Md. Ali Haider Doha
Finance Secretary



Md. Hasan Abdullah
Assistant Finance Secretary



Towhidul Islam
Sports Secretary



Md. Shamimur Rahman
Assistant Sports Secretary



Md. Azim Uddin Masum
Assistant Sports Secretary



AL Imam Hossen
Assistant Sports Secretary



Abu Hasnat Md. Sayem
Assistant Sports Secretary



Md. Shafkat Islam
Debate Secretary



Md. Anisul Islam
Assistant Debate Secretary



Umar Musanna
Assistant Debate Secretary



Sazzadul Islam
Assistant Debate Secretary



Sheikh Arif Ahmed
Office Secretary

Executive Committee

Computer Club (Male Section), Dept. of CSE, IIUC



Shahril Ahmed Siddiquee
Assistant Office Secretary



Mohammad Farshid
Seminar Secretary



Sudipta Chowdhury
Assistant Seminar Secretary



Iaamanur Rahaman
Social Welfare Secretary



Md. Rakibul Hossain
Assistant Social Welfare Secretary



Afif Ibn Belal
Assistant Social Welfare Secretary



Faisal Mahmud
Cultural Secretary



Md. S. M. Ajmain
Assistant Cultural Secretary



Abdullah Al Hossain
Assistant Cultural Secretary



S M Hisbullah Hasnat
Assistant Cultural Secretary



Abdullah Al Noman
Press Secretary



Azmain Adon
Assistant Press Secretary



Mir Reaz Uddin
Publicity Secretary



Md. Saidujjaman
Assistant Publicity Secretary



S.B. Joy Kumar Shill
Photographer



Abdur Rahman
Creative Designer - 1



Nazmus Sakib
Creative Designer & Photographer



Yeasin Tanim
Creative Designer - 3

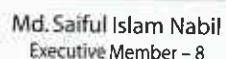
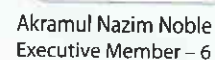
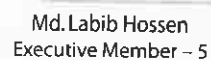
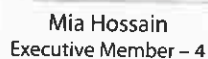
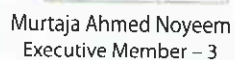


Towhidul Alam
Executive Member - 1



Irfan Chowdhury
Executive Member - 2

Computer Club (Male Section), Dept. of CSE, IIUC

[illegible]

Serving the nation to build the future.



HABIB GROUP
SINCE 1947

Keywords: *Self-leadership*, *self-regulation*, *work engagement*, *employee well-being*

www.fishbase.org

Executive Committee

Computer Club (Female Section), Dept. of CSE, IIUC



Hosna Ara Begum
General Secretary



Asma Humayra
Assistant General Secretary-1



Nowshin Tasnim
Assistant General Secretary-2



Farzana Tasnim
Programming Contest Secretary



Afsana Dilawar
Assistant Programming Contest Secretary



Nuren Nafisa
Assistant Programming Contest Secretary



Ayesha Julekha
Assistant Programming Contest Secretary



Sumayea Benta Hasan
Finance Secretary



Jarin Tasnim
Assistant Finance Secretary



Tasfia Meher
Sports Secretary



Sraboni Saha
Assistant Sports Secretary



Kazi Rifah Noor
Debate Secretary



Tasneem Sami
Assistant Debate Secretary



Nusrat Mehjebeen
Assistant Debate Secretary



Naziya Hasan Rattre
Office Secretary



Shaima Mahmud Khanam
Assistant Office Secretary



Tamanna Jannat
Seminar Secretary



Asfia Kawnine
Assistant Seminar Secretary



Fatema Yeasmin Chowdhury
Social Welfare Secretary



Anika Tahsin
Assistant Social Welfare Secretary

Executive Committee

Computer Club (Female Section), Dept. of CSE, IIUC



Nishat Salsabil
Cultural Secretary



Nabila Kader
Assistant Cultural Secretary



Afrida Zaima Nelanty
Assistant Cultural Secretary



Iren Sultana
Press Secretary



Nazneen Sultana Bristy
Assistant Press Secretary



Nanziba Basnin
Publicity Secretary



Naushin Mashrat Puree
Assistant Publicity Secretary



Fahima Sultana
Photographer



Afra Binte Osman
Assistant Photographer



Sanzeeda Islam
Executive Member - 1



Fahmida Yasmin
Executive Member - 2



Sanjida Yasmin
Executive Member - 3



Tazrian Jahan Tanju
Executive Member - 4

Executive Committee

EEE Club (Male Section), Dept. of EEE, IUC



Naeemul Islam
General Secretary



Md. Ekramul Haider Raju
Assistant General Secretary-1



Md. Mahbubul Mawla
Assistant General Secretary-2



Rubel Ahmed
Public Relation Secretary



An-Nazmus Sakib
Finance Secretary



Raihan Chowdhury
Secretary Sports



Jobair Al Rafi
Secretary Debate



Mohammad Tausiful Islam
Secretary Culture



Nawfel Shahria
Asst. Secretary Sports



Shafayat Hossain
Asst. Secretary Debate



Iquebal Hossain
Asst. Secretary Culture



Fokhrul Hasan
Asst. Secretary Sports-2



Mainul Hossen
Graphic Designer



Anees Hasan
Photographer



Sultan Mahmud
Photographer



Mohammed
Executive Member



Shadman Aousaf Abir
Executive Member



Ehsanul Hoque
Executive Member



Tanzeedul Islam
Executive Member



Arif Mainuddin
Executive Member

Executive Committee

EEE Club (Male Section), Dept. of EEE, IIUC



Mohi Uddin Talukder
Executive Member



Iftekhar Rahman Noman
Executive Member



Atikul Shahadat Soikot
Executive Member



M.B. Osmani
Executive Member



Abdullah Al Mamun Nishad
Executive Member



Arifur Rahman
Executive Member



Golam Mortuza
Executive Member



Nahean Parvez
Executive Member



Rakir Hasnain
Executive Member



Sakib Imtiaz
Executive Member

Tech Fest 2017



Asif Istiaque is speaking at prize giving ceremony



participation time at hackathon

Executive Committee

EEE Club (Male Section), Dept. of EEE, IUC



Mohi Uddin Talukder
Executive Member



Iftekhar Rahman Noman
Executive Member



Atikul Shahadat Soikot
Executive Member



M.B. Osmani
Executive Member



Abdullah Al Mamun Nishad
Executive Member



Arifur Rahman
Executive Member



Golam Mortuza
Executive Member



Nahean Parvez
Executive Member

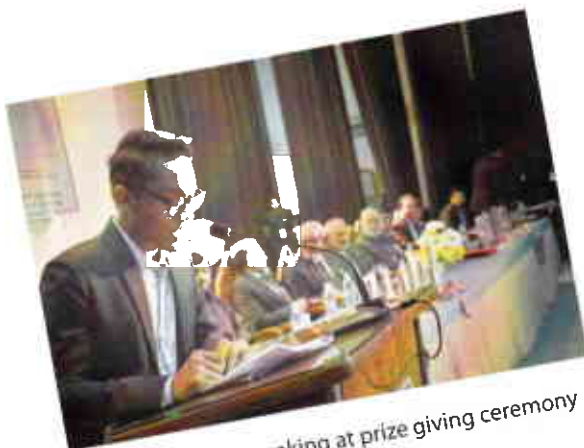


Rakir Hasnain
Executive Member



Sakib Imtiaz
Executive Member

Tech Fest 2017



Asif Istiaque is speaking at prize giving ceremony



participation time at hackathon

Executive Committee

EEE Club (Female Section), Dept. of EEE, IIUC



Kamrun Nahar Nupur
General Secretary



Brishty Shil
Assistant General Secretary



Sadia Safa Orna
Club Representative & Public Relationship Secretary



Sumaita Binte Salim
Finance & Sport's Secretary



Zarin Tasnim
Club Representative & Debate Secretary



Kaniz Suburna
Cultural Secretary

Since 2002

e-TECH SYSTEM

Hotline: 01819-39729
etechctg@gmail.com

Supply & Fittings Items :

C C Camera
Sound System
Digital Class Room
Multimedia System
Networking/Data Center
Intercom/ PABX System

[OFFICE EQUIPMENT
SUPPLIER]

We are Electronics & Technologies Product Supplier and after sales
and maintenance provider. We will provide support from our work experts.

19 CITY SHOPPING COMPLEX, ACCESS ROAD,
AGRABAD, CHITTAGONG, TEL:031-2513663

Executive Committee

Telecom Club Dept. of ETE, IIUC



Md. Maruful Hasan Sabbir
General Secretary



Md. Kamruzzaman
Assistant General Secretary-1



Muhammad Tamzid Uddin
Assistant General Secretary-2



Md. Robiul Hossain
Office & Public Relation



Md. Humayun Kabir
Robotic Secretary



MD. Bakey Billa
Cultural Secretary



Md. Nurnobi Chowdhury Saddam
Finance Secretary



MD. Delwar Hossain
Sports secretary



Mahmudul Hasan Noman
Seminar & Workshop Secretary



Ahmad Musa
Debate Secretary



Syed Mohaimen Mahtab Samir
Photographer



Md. Tareq Aziz Sifat
Photographer



Shashwata Bhattacharjee
Asst. Cultural & Debate



Md. Arifur Rahman
Asst. Cultural Secretary



Mahtab Momen
Asst. Robotic Secretary



Md. Baizid Mahmud
Asst Sports Secretary



Tohedul Islam
Asst seminar/workshop secretary



Md. Rabiul Hasan
Asst. Sports Secretary

Executive Committee

Pharma Club (Male Section), Dept. of Pharmacy, IIUC



Dr. Mohammed Aktar Sayeed
President



Md. Sekander Ali
Vice-president



A.T.M Mostafa Kamal
Treasurer



Mohammad Abul Sajjad
General Secretary



Md. Nasim Uddin
Assistant General Secretary 1



Md. Touhidul Islam
Assistant General Secretary 2



Sorwar Shuvo
Public Relationship



Arfin Ibn Aziz
Assistant Public Relationship



A Am Ariful Islam
Cultural Secretary



Md. Hasan Mahmud
Assistant Cultural Secretary



Saad Bin Amin
Sports Secretary



Kapil Uddin Prince
Assistant Sports Secretary



Md. Shahin Shah
Debate Secretary



Gazi Md. Al Raisal
Assistant Debate Secretary

Executive Committee

Pharma Club (Female Section), Dept. of Pharmacy, IIUC



Mst. Samima Nasrin
Vice President



Sanjida Islam
Treasurer



Nazifa sigma Promi
General Secretary



Nafisa Nawar
Assistant General Secretary 1



Fabiha Afnan Sifat
Assistant General Secretary 2



Jannatul Nasma Rupamoni
Public Relation Secretary



Nujhat Anchol
Assistant Public Relation Secretary



Tahmina Sifat
Debate Secretary



Umme Rumman
Assistant Debate Secretary



Waseka Chy Tashfiya
Sports Secretary



Hafsa Siddiqua
Assistant Sports Secretary



Ishrat Jahan
Cultural Secretary



Farhana Ahmed
Assistant Cultural Secretary

Winners of Tech Fest 2017

Programming Contest

CHAMPION (CUET Kalo_Bonduk)



Gazi Yamin Iqbal

Md Iqbal Hafiz

Rabbi Mollah

1ST RUNNER UP (IIUC Serene Fighters)



Md. Sheikh Ghazanfar, CSE



Jamil As-ad, CSE

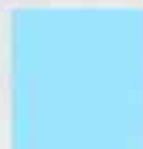


Md. Shofiuddin, CSE

2ND RUNNER UP (PUC Scratch)



Sadman Rizwan



Minhajul Islam



Masum Billah

BEST FEMALE TEAM (IIUC_Sawiana)



Nuren Nafisa, CSE



Rasheda Akter Urmi, CSE



Rithika Chowdhury, CSE

Tech Olympiad Competition

MALE

CHAMPION



Tanjid Fagun, CSE

RUNNER UP



Md. Mohiuddin Soliman, ETE

FEMALE

CHAMPION



Sadia Tabassum, CSE

RUNNER UP



Afsana Mehnaz, CSE

Software Development Competition

CHAMPION



Md. Salahuddin Sakib, CSE



S M Zia Ur Rashid, EEE



Md. Muntasirul Hoque, CSE

1ST RUNNER UP



Tahsina Islam, CSE



Hosna Ara Begum, CSE

2ND RUNNER UP



Ahasanul Kalam Akib, CSE



Yamin Sobhan, CSE



Md. Minhazul Islam, CSE

Project Show Competition

CHAMPION



Mahtab Momen, ETE



Md. Amanat Ullah, ETE



Kazi Samiullah Sagor, ETE

RUNNER UP



Asraful Alam Robin, EEE



Md Jonayed Hossen, EEE



Md Hobaibul Islam, EEE

Best Women Participant Team



Wakia Tun Nur Nisha, CSE

Sanchita Sharma, CSE

Poster Design Competition

CHAMPION



S.M. Tahsin Labib, EEE



Sohan Ul Alam, EEE

1ST RUNNER UP



Md. Golam Mortuza, ETE



Touhidul Alam, ETE



Rabiul Hasan Tareq, ETE

2ND RUNNER UP



Imtiaz Kamrul, ETE



Kazi Mazharul Haque, ETE



Nasim Mahmud Tushar, ETE

App Development Competition

CHAMPION



Misbah Ahmad Chy., CSE



Fahim Abdur Rahman, CSE



Foyzul Abrar Chy, CSE

1ST RUNNER UP



laamanur Rahman, CSE



Md. Sohel Mahmud, CSE



Mohd. Raihan Uddin, CSE

2ND RUNNER UP



Mst. Rasheda Akther, CSE



Mahfuza Akther Humaira, CSE



Nanziba Binte Basnin, CSE

Robo Fight Competition

CHAMPION



Mahtab Momen, ETE



Amanat Ullah, ETE



Kazi Sami Ullah, ETE

RUNNER UP



Yeasin Arafat Payek, CSE



Monjurul Hoque Shuvo, CSE



Sultan Mahmud Nahian, CSE

Medicinal Plant Show Competition

MALE

CHAMPION (Pharmacy)



Md. Ikram Uddin



M.d Najim Uddin



Tawhidul Amin Khan

RUNNER UP (Pharmacy)



Md. Takrim Hasnat



Md. Muktabbir Rashid Chy.



Md. Nasim Uddin

FEMALE

CHAMPION (Pharmacy)



Zinnat Ara Nahid



Farmin Jery Shatu



Fabia Ibnat

RUNNER UP (Pharmacy)



Jannatul Nasma Rupa Moni



Seema Binte Alam



Tanjina Afrin Nithu

Hackathon Competition

MALE

CHAMPION (CSE)



laamanur Rahman



Md. Sohel Mahmud



Mohd. Raihan Uddin

1ST RUNNER UP (CSE)



Md. Kafil Uddin



Md. Sheikh Ghazanfar



Ataul Maola Anas

2ND RUNNER UP (CSE)



Md. Kalim Amzad Chy



Jahedul Kader



Md. Abid Uddin

FEMALE

CHAMPION (CSE)



Tahsina Islam



Hosna Ara Begum

1ST RUNNER UP (CSE)



Nuren Nafisa



Sabrina Maisha



Taniya Sultana

2ND RUNNER UP (CSE)



Afsana Akther



Roshni Tasnim



Sabreen Radi

Cyber Gaming Competition (Male)

FIFA 17

CHAMPION



Arman-Ul-Islam, BBA

RUNNER UP



Md. Robiul Alam, CSE

Need For Speed – Most Wanted

CHAMPION



Ali Haider Doha, CSE

RUNNER UP



Arif Raihan, CSE

Cyber Gaming Competition (Male)

Call of Duty – MW3

CHAMPION



SM Toufiqul Houque, CSE



Fahim Hossain, CSE



Md. Nur Raihan, CSE



Reduwanul Sajeed, BBA



Shahriar Rifat, CSE

RUNNER UP (CSE)



Kazi Mushfikur Rahman



Ikramul Hoque



Musaddique Zaman



Zulfikar Hossain



Arif Raihan

Cyber Gaming Competition (Female)

Need For Speed

CHAMPION



Fariha Anjum, CSE

RUNNER UP



Afsana Dilawar, CSE

Ludo Star

CHAMPION



Nazifa Zarin, CSE

RUNNER UP



Afra Binte Osman, CSE

Idea Generation Competition

MALE

CHAMPION (CUET Truss)



Md. Rozim Mia



Asif Mohammad Sami

FEMALE

CHAMPION (CSE)



Hosna Ara Begum



Kazi Rifah Noor

RUNNER UP (ETE)



Md. Baqey Billa



Ahmad Musa

RUNNER UP



Jannatul Mouah, Pharmacy

Math Olympiad

MALE

CHAMPION



Sa-ad Mahmud, CSE

1ST RUNNER UP



Arnab Barua, CSE

2ND RUNNER UP



Md. Jahedul Haque, CSE

FEMALE

CHAMPION



Sabrina Jahan Maisha, CSE

1ST RUNNER UP



Sanjida Yasmin, CSE

2ND RUNNER UP



Nowshin Tasnim, CSE

Pictorial Presentation

Tech Fest 2017



Honorable guests and audience showing tributes on recitation of the national anthem.



Prof. Dr. Md. Delawer Hossain is speaking at hackathon.



A partial view of guests and participants are seen at tech fest 2017



Mr. Tanvir Shahriar Rimon, Ex-iiucian is speaking at Tech Fest 2017



Faculty members and Guests are seen in the Medicinal Plant Show Competition (2)



faculty members and guests are seen in the Medicinal Plant Show Competition



A moment of joy to receive the award of TECH FEST 2017



A moment of joy to receive the award of TECH FEST- 2017

Pictorial Presentation



Prof. Dr. Md. Delawer Hossain is speaking at a seminar of
TECH FEST- 2017



A picture of Robo Fight competition



A picture to get a reward from the guests



A view to get a reward from the guest



A view to get awards from the guest



kits Distribution at Tech Fest 2017



Participants are seen in programming contest



Participants are seen in the competition of Idea Generation Contest

Pictorial Presentation



Prof. Dr. M. Shamsher Ali is distributing the crest among the winners



Prof. Dr. M. Shamsher Ali is distributing the prizes among the winners (1)



Prof. Dr. Md Shamsher Ali is distributing the prizes among the winners



Prof. Dr. Md. Monirul Islam is distributing the prizes among the winners



Prof. Dr. Md. Shamsher Ali is distributing the prizes among the winners



Prof. M. Shamsher Ali is distributing the prizes among the winners



Prof. Md. Shamsher Ali is distributing the prizes among the winners



Students showcasing their project show competition during Tech Fest 2017

Sub-Committees of Tech Fest 2017

Sub-Committees:

Inter- University Programming Contest

Mr. Tanveer Ahsan, CSE	Convener
Md. Khaliluzzaman, CSE	Member
Shayhan Ameen Chowdhury, CSE	Member
A.B.M. Yasir Arafat, CSE	Member
Saifur Rahman, CSE	Member
Gulam Sarwar Chuwdhury, CSE	Member
Rahima Afrose, CSE	Member
Ahmed Imteaj, CSE	Member
Sumaiya Deen Muhammad, CSE	Member
Muhammad Kamrul Hossain Patwary, CSE	Member
Mr. Ashraf Uddin, EEE	Member
Mr. Md. Sakir Hossain, ETE	Member
Sanjida Islam Bristy, Pharmacy	Member

Software Development Competition

Mr. Shahidul Islam Khan, CSE	Convener
Md. Khaliluzzaman, CSE	Member
Lutfun Nahar, CSE	Member
Saifur Rahman, CSE	Member
Gulam Sarwar Chuwdhury, CSE	Member
Rahima Afrose, CSE	Member
Saiful Islam, CSE	Member
Md. Eftekar Alam, Lecturer, EEE	Member
Mr. Mahedi Hasan, ETE	Member
Riniara Khatun, Pharmacy	Member

Cyber Games Contest

A K M Masum, CSE	Convener
Zinia Sultana, CSE	Member
Shayhan Ameen Chowdhury, CSE	Member
Sanjida Sharmin, CSE	Member
Md. Adil Mahmud Roman, CSE	Member
Ahmed Imteaj, CSE	Member
Israt Binteh Habib, CSE	Member
Md. Salim Miah, CSE	Member
Khaled Syfullah Fuad, Lecturer, EEE	Member
Mr. Syed Zahidur Rashid, ETE	Member
Mr. A.T.M. Mostafa Kamal, Pharmacy	Member

Poster Presentation Competition

Dr. M Shamimul Haque Choudhury, EEE	Convener
Md. Rashidul Islam, EEE	Member
Shafait Ahmed, EEE	Member
Md. Rasheduzzaman, EEE	Member
Mr. Eftekar Alam, Lecturer, EEE	Member
Mr. Khaled Syfullah Fuad, Lecturer, EEE	Member
Risul Islam Rasel, CSE	Member
Shamima Akter, CSE	Member
Mr. Saif Hannan, ETE	Member
Md. Mominur Rahman, Pharmacy	Member

Robo Fight Competition

Md. Abdul Kader, EEE	Convener
Mr. Md. Lokman Hossain, EEE	Member
Engr. Khandakar Abdullah Al Mamun, EEE	Member
Meah Imtiaz Zulkarnain, EEE	Member
Adil Mahmud Roman, CSE	Member
Mr. Mohammad Woli Ullah, ETE	Member
Mr. A.S. M. Ali Reza, Pharmacy	Member

Project Show Competition

Mohammed Jashim Uddin, ETE	Convener
Mr. Abu Zafar Md. Imran, ETE	Member
Mr. Mohammad Woli Ullah, ETE	Member
Abdullahil Kafi, CSE	Member
Subrina Akter, CSE	Member
Md. Shahid Ullah, EEE	Member
Mr. Md. Hazrat Ali, Pharmacy	Member

Tech Olympiad

Mr. Md Mostafa Amir Faisal, ETE	Convener
Mr. Saif Hannan, ETE	Member
Mr. Mohammad Woli Ullah, ETE	Member
Snajida Sharmin, CSE	Member
Mr. Md. Salim Miah, CSE	Member
Engr. Md. Atiqul Islam, EEE	Member
Mr. Kazi Ashfak Ahmed Chy, Pharmacy	Member

Medicinal Plant Show Competition

Mr. Md. Sekendor Ali, Pharmacy,	Convener
Mr. A.S. M. Ali Reza, Pharmacy	Member
Mrs. Riniara Khatun, Pharmacy	Member
Md. Shahab Uddin, CSE	Member
Mr. Emranul Kabir, EEE	Member
Mr. Abu Zafar Md. Imran, ETE	Member

Idea Generation Competition

Mr. Syed Md. Tareq, Pharmacy,	Convener
Mr. Md. Mominur Rahman, Pharmacy	Member
Mr. A.T.M. Mostafa Kamal, Pharmacy	Member
Afrina Azad, Pharmacy	Member
Md. Borhan Uddin, CSE	Member
Israt Binteh Habib, CSE	Member
Dr. Sikder Sunbeam Islam, EEE	Member
Mr. Md. Sakir Hossain, ETE	Member

Finance & Sponsor

Prof. Dr. Md. Monirul Islam, CSE,	Convener
Mr. Md. Shamsul Alam, CSE	Member
Mr. Mahammed Arif Hasnayeem, CSE	Member
Mr. Ahmed Shan-A-Alahi, CSE	Member
Mr. Md. Ahsanul Hoque, EEE	Member
Mr. Md. Razu Ahmed, ETE	Member
Mr. Mominur Rahman, Pharmacy	Member
Mr. Md. Aktar Sayeed, Pharmacy	Member
Md. Tawfiqur Rahman, ACFD	Member

Invitation

Mr. Mohammed Abu Sayeed, Pharmacy	Convener
Mr. Md. Sekendar Ali, Pharmacy	Member
Mr. Kazi Ashfak Ahmed Chowdhury, Pharmacy	Member
Mr. A. S. M. Ali Reza, Pharmacy	Member
Prof. Dr. Md. Monirul Islam, Dean, FSE	Member
Mr. Mohammed Safiullah, CSE	Member
Mr. Md. Ismail Haque, EEE	Member
Mr. Syed Zahidur Rashid, ETE	Member

Seminar & Workshop

Mr. Sk. Md. Golam Mostafa, EEE	Convener
Mr. Md. Rashidul islam, EEE	Member
Dr. Mozahar ali, EEE	Member
Mr. Md. Atiqul Islam, EEE	Member
Mr. Md. Lokman Hossain, EEE	Member
Mr. Mohammad Manjur alam, CSE	Member
Mr. Shaikh Shariful Habib, CSE	Member
Mr. Md. Mostafa Amir Faisal, ETE	Member
Mr. A.T.M. Mostafa Kamal, Pharmacy	Member

Decoration

Mr. Md. Athar Uddin, EEE	Convener
Mr. Md. Atiqul Islam, EEE	Member
Mr. Md. Shahid Ullah, EEE	Member
Mr. Nazmus Sakib, EEE	Member
Mr. Al Imran, EEE	Member
Mr. Abdullahil Kafi, CSE	Member
Mr. Siddique Ahmed, CSE	Member
Mr. Mahedi Hasan, ETE	Member
Mr. Kazi Ashfak Ahmed Chowdhury, Pharmacy	Member
Mr. Anwarul Azim, DD, LMD	Member
Mr. Akramul Haque, ITD	Member

Transport

Mr. Sayed Allamah Iqbal, EEE	Convener
Mr. Md. Eftekhari Alam, EEE	Member
Dr. Sikder Sunbeam Islam, EEE	Member
Mr. Md. Rashedul Islam, CSE	Member
Mr. Md. Mahmudur Rahman, CSE	Member
Mr. Mohammad Woli Ullah, ETE	Member
Mr. Md. Hazrat Ali, Pharmacy	Member
Mr. Mohammad Mohiuddin, TD	Member
Mr. Akther Hossain, TD	Member

Publication

Mr. A.N.M. Rezaul Karim, CSE	Convener
Mr. Muhammad Azizul Hoque, ELL	Member
Mr. Faisal Bin Al Abid, CSE	Member
Mr. Kazi Ashfak Ahmed Chowdhury, Pharmacy	Member
Mr. A.B.M. Yasir Arafat, CSE	Member
Mr. A.Z.M. Imran, ETE	Member
Mr. Md. Mubarak Hossain, EEE	Member
Muhammad Kamrul Hossain Patwary, CSE	Member
Ms. Israt Binteh Habib, CSE	Member

Program Committee

Mr. Md. Shamsul Alam, CSE	Convener
A.B.M. Yasir Arafat, CSE	Member
Mr. Mahammed Arif Hasnayeem, CSE	Member
Mr. Nazmus Sakib, EEE	Member
Mr. Md. Mostafa Amir Faisal, ETE	Member
Mr. Md. Ashruf Uddin, Pharmacy	Member
Mr. Chy Golam Mawla, STAD	Member

Website Committee

Mr. Shayhan Ameen Chy, CSE	Convener
Mr. Md. Shamsul Alam, CSE	Member
Mr. Mohammad manjur Alam, CSE	Member
Mr. Mahedi Hasan, ETE	Member
Mr. Syed Md. Tareq, Pharmacy	Member
Mr. Md. Mahi Uddin, ITD	Member
Mr. Yusuf Khalil, ITD	Member

Press & Media Committee

Mr. Md. Masudur Rahman, Pharmacy	Convener
Mr. Mominur Rahman, Pharmacy	Member
Mr. Mohammed. Abu Sayeed, Pharmacy	Member
Mr. Saiful islam, CSE	Member
Mr. Mohammad Mobarak Hossen, EEE	Member
Mr. Md. Razu Ahmed, ETE	Member
Mr. Md. Mustaq Khondakar, AD, PRO	Member

Discipline & Welfare

Mr. Razu Ahmed, ETE,	Convener
Mr. Md. Jashim uddin, ETE	Member
Mr. Md. Mostafa Amir Faisal, ETE	Member
Mr. Md. Moazzem Hossain, CSE	Member
Mrs. Zinia Sultana, CSE	Member
Mr. Md. Nazmus Sakib, EEE	Member
Mrs Nargis Akter, EEE	Member
Mr. Md. Mominur Rahman, Pharmacy	Member
Ms Afrina Azad, Pharmacy	Member
Dr. Md. Kausarur Rashid, MBBS, MO	Member
Dr. Abu Shadat Mohammad Sayem, MBBS, MO	Member
Dr. Ayar Dilruba, MBBS, MO	Member

Entertainment

Dr. Mohammed Aktar Sayeed, Pharmacy,	Convener
Mr. Md. Mominur Rahman, Pharmacy	Member
Mr. Kazi Ashfak Ahmed Chowdhury, Pharmacy	Member
Mr. Md. Shab uddin, CSE	Member
Mr. Muhammad Kamrul Hossain Patwary, CSE	Member
Mr. Md. Rakibul Islam, EEE	Member
Mr. Abu Zafar Md. Imran, ETE	Member

Kits, Prize & Certificate

Mr. Md. Mahiuddin, CSE,	Convener
Mohammad Aman Ullah, CSE	Member
Mr. Mr. Md. Khaliluzzaman, CSE	Member
Mr. ABM Yasir Arafat, CSE	Member
Mr. Shayhan Amin Chy, CSE	Member
Mr. M. Tanvirul Hoque, EEE	Member
Mr. Syed Zahidur Rashid, ETE	Member
Mr. A.T.M. Mostafa Kamal, Pharmacy	Member

Inaugural Ceremony

Engr. Abdul Gafur, ETE
Mr. Md. Masudur Rahman
Dr. Mohammed Aktar Sayeed, Pharmacy
Mr. Sayed Allamah Iqbal, EEE
Mr. Md. Abu Sayeed, Pharmacy
Mr. Razu Ahmed, ETE
Mr. Md. Shamsul Alam, CSE
Mr. Md. Athar Uddin EEE
Ms. Sumaiya Deen Mohammad, CSE
Mr. Md. Al Imran, EEE
Mr. Mohammad Woli Ullah, ETE
Mr. Md. Sekender Ali,, Pharmacy

Convener
Member
Member
Member
Member
Member
Member
Member
Member
Member
Member
Member

Prize Giving Ceremony

Mr. Md. Mahadi Hasan, CSE
Mr. Md. Masudur Rahman
Dr. Mohammed Aktar Sayeed, Pharmacy
Mr. Sayed Allamah Iqbal, EEE
Mr. Md. Abu Sayeed, Pharmacy
Mr. Razu Ahmed, ETE
Mr. Md. Shamsul Alam, CSE
Mr. Md. Athar Uddin EEE
Mr. Md. Mahiuddin, CSE
Mr. Raisul Islam Rasel, CSE
Mrs Nargis Akter, EEE
Md. Jashim Uddin, ETE
Mr. Md. Ashruf Uddin, Pharmacy

Convener
Member
Member
Member
Member
Member
Member
Member
Member
Member
Member
Member
Member

List of the Deans Faculty of Science & Engineering (FSE), IJUC



Prof. Dr. Md. Nurul Islam

01.02.2001 to 31.12.2004



SMA Motakabber
Associate Professor

28.02.2007 to 31.10.2007
(Dean-In-charge)



Mohammed Shamsul Alam
Associate Professor

06.04.2011 to 31.07.2011
(Dean-In-charge)



Prof. Dr. Md. Delawer Hossain

10.01.2005 to 31.10.2006
01.08.2011 to 30.09.2016



Prof. Dr. Mohammad Rezaul Huque Khan
B.Sc. Engg. (BUET), Master of Engineering (Japan)
Doctor of Engineering (Japan)

01.11.2007 to 30.09.2010



Prof. Dr. Md. Monirul Islam

01.10.2016 to till the date

Divisional Science Olympiad 2018

12 January 2018

Organized by
Bangladesh Academy of Sciences

Centre
International Islamic University Chittagong



Like every year, Divisional Science Olympiad- 2018 was held on 12th January, 2018 in International Islamic University Chittagong (IIUC) organized by Bangladesh Academy of Sciences (BAS).



A total of 445 participants participated, out of which 307 were from the school level and 138 were from the college level where 214 female and 231 male students were competing. The test began at 10am and ended at 12pm. In the inauguration and closing ceremony, Prof. Dr. A.K.M. Azharul Islam, ex-vice chancellor and Fellow, Bangladesh Academy of Sciences was present as the chief guest and Prof. Ahsanullah, chairman; finance committee was present as the special guest. All participants were given breakfast, lunch and T-shirts from IIUC. Certificates of Bangladesh Academy of Sciences were issued among the winners. Prof. Dr. Md. Delawer Hossain, Pro-Vice Chancellor, IIUC & Co-ordinator, Divisional Science Olympiad, IIUC centre presided over the program. After the ceremony, the video and beautiful cultural events were served.



Divisional Science Olympiad 2018

12 January 2018

Organizing Committee

Prof. Dr. Delawer Hossain, Pro-VC (Centre -Coordinator)	Convener
Prof. Dr. Md. Monirul Islam, Dean, Faculty of S&E	Member
Mr. Mohammad Mahadi Hassan, Chairman, Dept. of CSE	Member
Engr. Md. Athar Uddin, Chairman, Dept. of EEE	Member
Engr. Jasim Uddin, Chairman, Dept. of ETE	Member
Mr. Md. Masudur Rahman, Chairman, Dept of Pharmacy	Member
Mr. A.N.M. Rezaul Karim, Associate Prof., CSE	Member
Mr. Tanveer Ahsan, Associate Prof., CSE	Member
Mr. Abdullahil Kafi, Assistant Prof., CSE	Member
Mr. Md. Mohiuddin, Assistant Prof., CSE	Member
Mrs. Zinnia Sultana Mukti, Assistant Prof., CSE	Member
Mr. Shayhan Ameen Chowdhury, Lecturer, CSE	Member
Engr. Sk. Md. Golam Mustafa, Assistant Prof., EEE	Member
Mr. Md. Abdul Kader, Assistant Prof., EEE	Member
Mr. Sayed Allamah Iqbal, Assistant Prof., EEE	Member
Mr. Md. Atiqul Islam, Assistant Prof., EEE	Member
Engr. Razu Ahmed, Associate Prof., ETE	Member
Engr. Abdul Gofur, Assistant Prof., ETE	Member
Mr. Muhammad Mostafa Amir Faisal, Assistant Prof. ETE	Member
Mr. Abu Zafar Md. Imran, Lecturer, ETE	Member
Dr. Aktar Sayeed, Associate Prof., Pharmacy	Member
Mr. Mohammed Abu Sayeed, Associate Prof., Pharmacy	Member
Mr. Md. Mominur Rahman, Asst. Prof., Pharmacy	Member
Mr. Md. Mustaq Khondakar, Asst. Director, PRO	Member
Mr. Mohammed Shamsul Alam, Assoc. Prof., CSE	Member Secretary



Divisional Science Olympiad 2018

List of Winner (Top 10%) College Level



Muhammad Waleed
Darul Uloom Alia adrasha



Most. Alvi Sabia
B.N. School & College



Md. Mehrab Hossain Siyam
Ispahani Public School & College



Md. Mubinur Rahman
Ispahani Public School & College



Silvy Shariya
Darul Uloom Alia adrasha



Md. Fahim Foraejee
Feni govt. college



Sahea Maharuj Mahadi
B.N. School & College



Kamrun Naher Keya
B.N. School & College



Ajoy Paul
Hazera Taju University College



Tahia Tun Noor
B.N. School & College



Mahmuda Akter
B.N. School & College



Md. Faridul Islam Farhad
B.N. School & College

List of Winner (Top 10%) School Level



Md. Isa Bin Maksud
B.N. School & College



Tasnimur Rahman Fayad
Chittagong Collegiate School



Afifa Antara Chowdhury
J.B. High School



Md. Rahadul Hasan
Chittagong Collegiate School



Augusto Dip Niloy
B.N. School & College



Moontaka Noor
Silver Bells Girls High School



Meheri Monir
Bakolia Girls High School



Chaity Rani Singho
Bhatiary Hazi T.A.C. High School



Md. Tanzimul Islam
BAF Shaheen School & College



Ahmad
Baitush Sharaf Madrasa

Divisional Science Olympiad 2018

List of Winner (Top 10) at
School Level



Arima Tun Noor
Charkanai High School



Md. Eftakharul Haque
Sitakund Govt. Model High School



Iqbal Hossain Jishan
BMA High School



Monika Das Shimu
BD Mohila Samity Girls High School



Sabiquen Naher Monika
BAF Shaheen School & College



M. Mohtasim Ibne Akter
Darul Ulum Kamil Madrasha



Md. Jahedul Islam
J.B. High School



Rubaiya Mahzabin
Silver Bells Girls High School



Humaira Binte Shahid
CDA Public School & College



Nusrat Nowrin Tisha
B.N. School & College



Nafisa Binte Firoz
K.P.M. High School & College



Md. Rafiqul Islam
BAF Shaheen School & College



Khaled Saif Ullah
Baitush Sharaf Madrasha



Adrian Bin Mahmed
Darul Ulum Kamil Madrasha



Md. Enayet Ullah Alvee
Sitakund Govt. Model High School



Tasnia Fyroz Alam Tasnu
Bhatiary Hazi T.A.C. High School



Abu Hayat Md. Nibras
Darul Ulum Kamil Madrasha



Abdullah
Maruf Model High School

Concerns of Welcast Group



Welcast Group Concerns

- Welcast Properties Ltd.
- Welcast AGRO
- Welcast Diagnostic
- Welcast Residential Lodge
- Welcast IT
- Welcast Overseas
- Welcast Garments and Accessories
- Welcast Import and Export
- Welcast Trading Corporation
- Welcast Food and Beverage
- Welcast Printing and Packagin



WELCAST GROUP

27 Sugandha R/A, Ground Floor, Mirzarpol, Panchlaish, Chittagong, Bangladesh.

Tel : 031-658800, Cell : +88-01841515151-6

E-mail : welcastgrp@gmail.com,

Web : www.welcastgroupbd.com

FE Fuji Electric
Innovating Energy Technology

TERASAKI
Innovators in Protection Technology

Automation
In Partnership with the Future

Automation Cables
FOR SECURED POWER NETWORK



**FOR OFFICE, FACTORY OR POWER PLANT SUBSTATION
AUTOMATION ENGINEERING IS THE PERFECT SOLUTION**

- Total Power Solution Where Quality Meets Reliability
- Ensures Secured Power Network with Green Technology
- Sole Distributor of Fuji Electric & Terasaki Electric - Japan



অটোমেশন কেবল একটি প্রতিশ্রুতি। নিরাপদ বিদ্যুৎ নেটওয়ার্কের জন্য। অটোমেশন কেবল একটি প্রতিশ্রুতি।

www.automation-bd.com