



# CRTTC | UAP

CENTER FOR RESEARCH, TRAINING,  
TESTING & CONSULTATION, UAP



University of Asia Pacific



**CRTTC**

Center for Research, Training, Testing & Consultation, UAP

# Center for Research, Training, Testing & Consultation

University of Asia Pacific

UAP members of Civil of Engineering, Electrical and Electronic Engineering, Computer Science and Engineering, Architecture, Pharmacy, Business Administration, Law and Human Rights, English, and Basic Science and Humanities manifest leadership traits, nurture their skills and make their efforts valuable to the society and community through a common platform- Center for Research, Training, Testing and Consultation (CRTTC), UAP.





In 2013, CRTTC was established with the following objectives-

- To encourage creation and dissemination of knowledge in line with the needs of the nation, government, different public and private institution
- Provide effective and efficient solutions to the clients of the Center, be it public and private institution
- Seek continuous feedback from the government and non-government bodies on research areas to focus on in-line with the academic programs of the university
- Develop close and workable relationships with the public and private sectors
- Profitable use of research equipment for enhancing research capabilities and better research opportunities both undergraduate and postgraduate levels
- Capacity enhancement of faculty members and other staff associated with teaching for better demonstration of experiments and explanations in the classes
- To facilitate research programs that are crucial for national development but for which suitable sponsorships are not available
- Impart training programs that enhance the capacities of participants in solving relevant emerging problems of the nation/different sectors
- Testing of materials, equipment, designs, systems that are relevant to the academic pursuit of University of Asia Pacific or of national interest

Based on the activities since its establishment, the focus of CRTTC has molded as below:

- To create scientific knowledge through research
- To generate high skilled scientific and technical manpower
- To provide the service of material testing
- To strengthen the engineering know-how in the departments
- To arrange training programs for skill developments

To serve consultation services to public and private agencies, laboratories, departments and institutions.





# Department of Civil Engineering

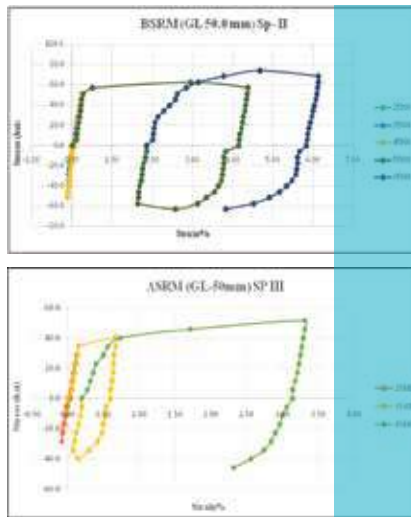
CRTTC, CE started its journey back in 2004, formerly known as Bureau of Materials Testing, Research, Training, and Consultancy (BMTRTC). CRTTC, CE can offer access to University's state-of-the-art laboratory equipment and facilities to companies of all sizes with a wide range of testing and analysis services. The high quality specialized equipment, machinery and tools can be hired with or without academic expertise whichever suits to your project. We have expert technicians, servicemen and staffs under the direct supervision of faculty members to carry out the tests and analysis.

CRTTC, CE undertakes research, testing and consultation works in the field of engineering, architecture and planning as required by government, private or autonomous bodies.

# Testing Services

Physical, mechanical, chemical and durability tests of construction materials (cement, aggregates, concrete, grouts, bricks, steel, timber, bitumen, water, soil etc.) are conducted regularly in the different laboratories of Civil Engineering Department.

## Major Lab Equipment



Reversible Universal Testing Machine and test results for steel bars



Los Angeles Abrasion Machine



Spectrophotometer, COD reactor and BOD incubator

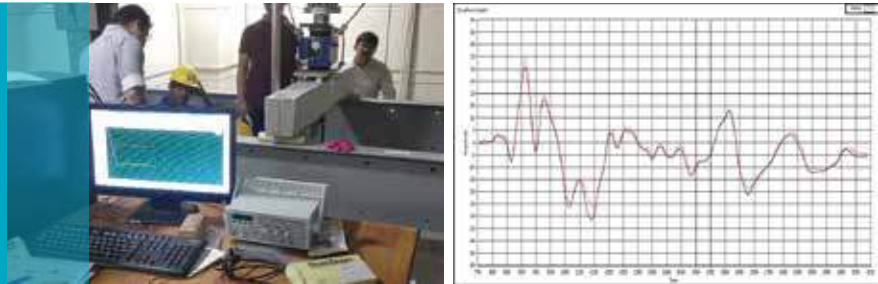
Using Triaxial Test Apparatus



RC Slab Testing by Loading Frame



LVDT-Data Logger for Beam Test and Output for Seismic Vibration



Major Lab  
Equipment

# Major Clients



Epik International (Compound Security Upgrade US Embassy, Dhaka)



Anwar Landmark Ltd (Construction of Country Office of UNICEF),



Basundhara Group (Basundhara Int'l Convention City Project),



Crown Ready mix Ltd (Compound Security Upgrade US Embassy, Dhaka)



NDE Ready mix Ltd (Compound Security Upgrade US Embassy, Dhaka),



Structural Engineers Ltd (Developers Projects)

## JANATA OIL MILLS

Janata Oil Mill (Construction Project)



Inter Space Limited

East West University

Building Technology and Idea (BTI)

Dhaka WASA

Sylhet City Corporation

New Age Group

Safety Source Ltd.

VEnS Inc.

Nourish Poultry & Hatchery Ltd

Adroit Engineering

AKSID Blocks

AJ Fashion Ltd.



# Research

The faculty members of the department of civil engineering have engaged themselves in the following research projects:

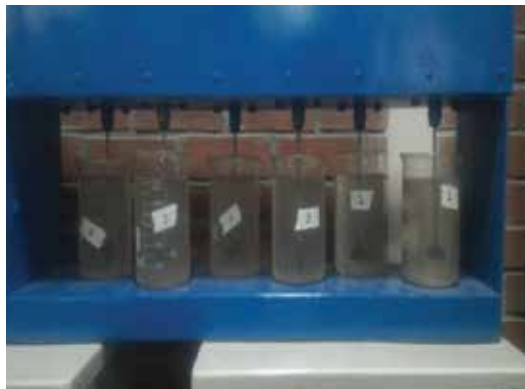
- 1 Transport and Mobilities: Meeting the needs of Vulnerable Population in Developing Cities
- 2 Application and use of Glass Fiber Reinforced Polymer (GFRP) bars in Bangladesh
- 3 Rechecking of Structural Assessment and Retrofitting Report
- 4 Earthquake Resistant Design and Construction of Structures for Civil/Structural engineers
- 5 Transboundary Water Management and Conflict Resolution in Asia
- 6 Pharmaceutical compounds removals in constructed wetlands
- 7 Application of Life Cycle Analysis on Industrial wastewater at US and Bangladesh
- 8 Land and Water Technology Foundation, Finland, Research Project Grant
- 9 TekniikanEdistämmissäätiön (Foundation of Technology, Finland), Research Grant
- 10 Manual of Environmental Management Plan of Completed Small and Medium Scale Water Projects of Bangladesh Water Development Board (BWDB)
- 11 Long Embankment to Protect a Locality Against Wave Erosion at Mithamuin, Kishoreganj
- 12 Hydraulic Design of the Bridge over Sitalakhya
- 13 Physical Model Development for Jamuna Multipurpose Bridge Project
- 14 Management model at Barisal Irrigation Project (BIP)
- 15 Calibration and Simulation of Rainfall Run off model (NAM) for Bangladesh
- 16 Dynamic elasto plastic behavior of Reinforced Concrete, Ministry of Science and Technology
- 17 Structural Equation Model to Evaluate the Performance of Para-Transit Service Quality in Dhaka City
- 18 Implementing Bus Priority Lanes as a Measure to Reduce Traffic Congestion by Using VISSIM
- 19 Assessing the Mode Choice Behavior Generated for Work Trips in Dhaka City
- 20 Constructed wetlands for textile wastewater treatment
- 21 Application of Floating Wetlands for the Treatment of Buriganga River
- 22 Experimental Investigation on Improvement of Soil Strength Using Additives
- 23 Food Contamination, Aquatic Pollution and Biomagnification: Bangladesh Perspective (Phase I)
- 24 Food Contamination, Aquatic Pollution and Biomagnification: Bangladesh Perspective (Phase II)
- 25 Experimental Investigation of Flat Plate and Flat Slab
- 26 Analysis of embankment stability



Wetland (Dr. Tanveer Ferdous Saeed)



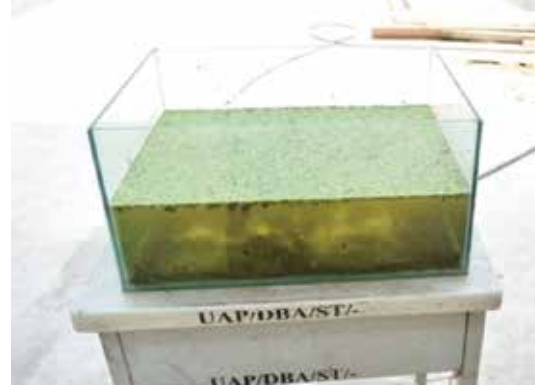
Heavy Metal uptake by Fish and Optimum Coagulant Dosage (Dr. Nehreen Majed)



Screw Plate Load and Cross-hole Test on test pil (Dr. Sarah Tahsin Noor)



# Pictures of Faculty Research



Duckweed based waste stabilization pond system  
(Dr. Md. Mahmudul Hasan)

Dr. Iftekhar Anam at  
SATREPS Workshop (Tokyo)  
on Earthquake Engg. Research



Video survey for implementing  
bus priority lanes in major arterials  
(Shahbag to Bijoy Shorony) in  
Dhaka (Dr. Farzana Rahman)



# Training Programs

Training on various aspects civil engineering are available but not limited to:

- Practical Retrofitting Techniques: Bangladesh Context
- Integrated Water Resources Management
- Environmental Impact Assessment
- International water laws and policies
- Fire safety of concrete structures
- Engineering Software training ( ETABS, SAP, ABAQUS, MS Project, Qual2K, WASP, PLAXIS, NovoSPT, AutoCAD etc)

# Consultation Services

The department of civil engineering offers the following consultation services:

1. Assessment of existing structures
2. Structural design and vetting
3. Retrofitting of existing structures
4. Concrete materials design
5. Site evaluation for ground improvement and foundation design
6. Assessment of geotechnical aspects of earthen construction material, construction on soft ground and liquefiable soil, slope stability analysis, etc.
7. Environmental Impact Assessment

The following are some of the consultation services recently delivered to the concerned clients:

1. Design and time history analysis of a proposed 23 storey + 5-basements hospital building for INTER SPACE LIMITED
2. Retrofitting of cantilever slab, water proofing and crack repair of roof slab and damp proof work of peripheral brick walls
3. Structural assessment and retrofitting for affected portion of existing building  
Vetting of Structural Assessment and retrofitting for vertical extension of existing building
4. Review and Modification of Structural Design for Enhanced Seismic performance of A proposed 10-storied Residential Building for BUILDING TECHNOLOGY AND IDEAS LTD. (BTI)
5. Vetting of Structural Design of 5th floor of Arts Faculty IDMVS – Dhaka University
6. Vetting of structural design for Gulshan House, a proposed 15 storied (B2+15) residential building for MULTIPLAN LIMITED
7. Preliminary Condition Assessment of RMG factory Buildings (through EIMSBD, working for ALLIANCE)
8. Report on compaction of soil, INDIAN EMBASSY COMPLEX, Baridhara



9. Reviewing and verifying the company operations against the IFC Performance Standards (PS), (On-going, working for Zero Gravity Ventures Limited to fulfill the requirements of the investor BRUMMER & PARTNERS )
10. Third Party Review on Liquefaction Analysis for Padma (Jashaldia) Water Treatment Plant (Phase 1) for DHAKA WASA

The faculty members of the department of civil engineering have also been involved in the following projects as expert consultants

1. Khulna-Jessore Drainage Rehabilitation Project (KJDRP)
2. Assessment and Retrofitting for Affected Portions of the Existing Building of East West University
3. Vetting of structural design for Gulshan House
4. Review and Modification of Structural Design for Enhanced Seismic Performance of a Proposed 10-Storeyed Residential Building
5. Review of CNCRP Manuals
6. Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and its Strategic Implementation towards Resilient Cities (TSUIB)
7. Structural Assessment of 16-Storeyed Commercial cum Residential Building at Karwan Bazar
8. Structural Design of Power Sub-Stations
9. Seismic/Non-Seismic Design/Construction/Retrofit Manuals for Capacity Development on Natural Disaster Resistant Techniques of Construction and Retrofitting for Public Buildings”, JICA-PWD Technical Cooperation Project CNCRP
10. Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and its Strategic Implementation towards Resilient Cities, GOB-JICA co-sponsored Research Project SATREPS

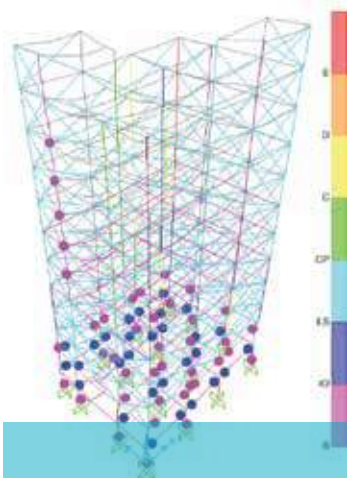
## Projects



UAP-CE faculty Professor Dr. Farzana Rahman, Assistant Professors Dr. Sharmin Nasrin and Syed Jamal visiting Sylhet city along with City Mayor for reconnaissance to assess the condition of city roads



US Embassy representatives witnessing test of concrete cylinder for their project (with Asst. Prof. Syed Jamal)



Output and Round Table Meeting on UAP-BTI Research Findings on Strengthening RC Structures against Earthquakes (BNBC and beyond)

# Resource Persons

**Dr. Jamilur Reza Choudhury**

Vice-Chancellor & Professor  
Ph.D., University of Southampton, UK, 1968

**Dr. M. Shamim Z. Bosunia**

Professor Emeritus  
PhD, University of Strathclyde, UK, 1982

**Dr. M. Mizanur Rahaman**

Professor & Head  
D.Sc., Helsinki University of Technology, Finland, 2009

**Dr. M. R. Kabir**

Professor & Dean  
Ph.D., Catholic University of Leuven, Belgium, 1993

**Dr. Mujibur Rahman**

Professor  
Ph.D., University of Adelaide, Australia, 1988

**Dr. Iftekhar Anam**

Professor  
Ph.D., Texas A&M University, USA, 2000

**Dr. Farzana Rahman**

Professor  
Ph. D., Saitama University, Japan, 2009

**Mr. Emtazul Haque**

Associate Professor  
M. Sc. Engineering, University of Oklahoma, USA, 1997

**Dr. Tanveer Ferdous Saeed**

Associate Professor  
Ph. D., Monash University, Australia, 2011

**Dr. Sarah T. Noor**

Associate Professor  
Ph.D., Concordia University, Canada, 2011

**Dr. Nehreen Majed**

Associate Professor  
Ph. D., Northeastern University, Boston, MA, USA, 2011

**Syed Jamal Uddin Ahmed**

Assistant Professor  
M. Sc., The University of Dundee, Scotland, UK, 2010

**Dr. Md. Mahmudul Hasan**

Assistant Professor  
Ph.D., Ritsumeikan University, Japan, 2014

**Dr. Sharmin Nasrin**

Assistant Professor  
Ph.D., Queensland University of Technology, Australia, 2015

**Rumman M. Chowdhury**

Assistant Professor  
M. Sc., University of Stuttgart, Germany, 2014

**Mansura Sharmin**

Assistant Professor  
M. Engg., CE (U. Toronto), 2013

**Dr. Md. Jihad Miah**

Assistant Professor  
PhD, University of Pau and Payes de l'Adour, France, 2017

**Dr. Md. Ashraful Alam**

Assistant Professor  
PhD, University of Malaysia, Malaysia, 2010

**Md. Nazmul Alam**

Lecturer  
B. Sc. in Engineering (Civil), UAP, 2011

**Mahfuza Tabassum**

Lecturer  
B. Sc. in Engineering (Civil), UAP

**Musawer Ahmad Saqif**

Lecturer  
B. Sc. in Engineering (Civil), BUET, 2017

**Fatima Afifah**

Lecturer  
B. Sc. in Engineering (Civil), BUET, 2016

**Israt Jahan**

Lecturer  
B. Sc. in Engineering (Civil), BUET, 2017

**Shameer Saleh**

Lecturer  
MS, University of Sydney, NSW, Australia, 2017

**Mohammad Sabbir Rahman**

Lecturer  
MSc, Kunsan National University, South Korea, 2016

# Department of Computer Science and Engineering

The Department of Computer Science and Engineering strives to stay abreast of technology growth and development and recognizes the fact that learning is a multifaceted continuous process. Along with the objective to make a concerted effort towards achieving the goal of providing quality education, the department has arranged and will be continuing to arrange various training programs, consultation services, events etc. related to the field of Computing. At present we are developing various research groups focusing on different research areas where both faculty members and students will be involved. We strongly believe that our good efforts would help developing students of our university as well as students around the country to be competent and they may positively contribute to overcome the socio- economic problems of the country.



# Training Programs

1. Web Extraction & text mining
2. Robi BD Apps Technical Workshop
3. Idea for Mobile Games and Apps Development
4. Brain Engineering: Opportunities and Feasibilities in the coming Days
5. Software Testing
6. Grow with Samsung R&D Institute Bangladesh
7. Baseline Survey of ITEE (Information Technology Engineers Examination)Program
8. Introduction to Basic Intelligent Agents with Python
9. Information Technology Engineers Examination (ITEE) Pre-Mock-Test
10. Road to the Software Industry
11. Fundamentals of Web Development
12. Research Methodology
13. Software Quality Assurance: Myth vs. Reality
14. LICT Training program
15. Big Data and Data Science Workshop
16. Leveraging ICT (LICT) Training program
17. Top-Up IT and Foundation Skills training
18. Blue tooth controlled AC Light Panel Development
19. Worbot (Word Robot) Development
20. Firefox OS App Development
21. Artificial Intelligence and Machine Learning using Python
22. Android base Mobile Application Development
23. Arduino for Machine Programming
24. Machine Learning Using Julia Computing
25. CCNA

# Leveraging ICT (LICT)

## Training program

MoU between UAP, Bangladesh Computer Council, Govt. of Bangladesh (BCC), and Top-Up IT and Foundation Skills Project implementation Unit, LICT.

## Consultation Services

Enhancement of Bangla Language in ICT through Research & Development

## Events

1. ACM-International Collegiate Programming Contest (ACM-ICPC) 2017
2. Inter University Software & Hardware Carnival- 2017
3. ACM-International Collegiate Programming Contest (ACM-ICPC) 2016
4. National Collegiate Programming Contest(NCPC) 2016
5. Architecture and Communication Protocols on Dynamic Ad Hoc Network
6. Designing Websites: Best Practices
7. Flash Memory Industry
8. Hardware Industry for CSE Graduates
9. Opportunities for Graduate Studies at University of Bradford, UK
10. Workshop on “Mobile Application Development”
11. Quantum Inspired Meta-Heuristic Methods for Thermal Power System with Renewable Energy
12. Multithreaded Parallel Computing
13. Future Internet and Technical Possibilities
14. Internet Governance in 2013 and beyond: Why developing countries should care about?
15. Seminar on IT Security and Privacy
16. Microsoft Bangladesh : Collaboration with CSE, UAP
17. Mobile Apps Development
18. Seminar on “Electric Energy and Its impact on the Environment and Climate Change”.
19. Seminar on “Developing a Customer-based Curriculum for 21st Century”
20. Seminar on “ISP setup and networking using Mikrotik Router”
21. Seminar on "Modern Trends in Power System".

# Resource Persons

**Dr. Bilkis Jamal Ferdosi**

Professor and Head  
Ph.D. in Computer  
Visualization, University  
of Groningen, The  
Netherlands.

**Aloke Kumar Saha**

Associate Professor  
M.Sc. in Computer  
Science, University of  
Dhaka, Bangladesh

**Dr. Md. Abdul Hamid**

Professor &  
Co-ordinator (MCSE)  
Ph.D. in Computer  
Engineering, Kyung Hee  
University, Republic of  
Korea

**Shaila Rahman**

Assistant Professor  
M.Sc. in Computer  
Science  
University of Dhaka,  
Bangladesh

**Shammi Akhtar**

Assistant professor  
M.Sc in Computer  
Science and Engineering,  
University of Asia  
pacific, Bangladesh.

**Dr. Md. Rajibul Islam**

Ph.D. in Photonics,  
University of Malaya,  
Kuala Lumpur, Malaysia

**Nadeem Ahmed**

Assistant Professor  
M.Sc. (Computer  
Science), Queen Mary,  
London, UK

**Tanjina Helaly**

Assistant Professor  
M.S. in Computer  
Science, North Dakota  
State University(NDSU),  
USA

**Md. Imran Bin Azad**

Assistant Professor  
MS in Computer Science  
and Engineering  
University of Dhaka

**A S Zaforullah Momtaz**

Assistant Professor  
B.Sc. in CSE, University  
of Asia Pacific, Dhaka,  
Bangladesh

**Molla Rashied Hussein**

Assistant Professor  
M.Engg. in Computer  
Engineering,  
Old Dominion University,  
Norfolk, Virginia, United  
States

**Tanmoy Sarkar Pias**

Lecturer  
BSc. in Computer  
Science and Engineering  
Bangladesh University of  
Engineering and  
Technology, Bangladesh

**S M Rafiuddin Rifat**

Lecturer  
BSc in Computer Science  
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Rajshahi University of  
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Technology, Bangladesh

**Dr. A S M Touhidul Hasan**

Lecturer  
Ph. D. in Computer  
Applied Technology,  
Shenzhen Institutes of  
Advanced Technology,  
University of Chinese  
Academy of Sciences,  
China.

**Tahira Alam**

Lecturer  
MS in Computer Science  
and Engineering  
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**Wahid - Uz - Zaman**

Lecturer  
B.Sc. in Computer  
Science and Engineering  
Bangladesh University of  
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Technology, Bangladesh

**Sakib Hasan**

Lecturer  
B.Sc. in Computer  
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Islamic University of  
Technology, Gazipur,  
Bangladesh

**Md. Shopon**

Lecturer  
B.Sc. in Computer  
Science and Engineering  
University of Asia Pacific,  
Bangladesh

**Jahir Ibna Rafiq**

Assistant Professor  
BEng in Electronics and  
Computer Engineering  
University of Surrey, UK

**Hanif Bhuiyan**

Assistant Professor  
M.E. in Computer and  
Information Engineering,  
Inha University, South  
Korea

**Abdullah Al Omar**

Lecturer  
B.Sc. in CSE, University  
of Asia Pacific, Dhaka,  
Bangladesh



National Collegiate Programming Contest (NCPC) 2016



Inter University Software and Hardware Carnival 2018



GDG program 2016





CSE Day Event 2014



ICCIT 2017



Programming Competition

# Department of Electrical and Electronic Engineering

The Department of Electrical and Electronic Engineering (EEE) was established at the University of Asia Pacific in 2004. The department was formed with a view to providing quality education and excellent research facilities for students. Currently, the department is enriched with thirty-one skilled faculty members and twenty-one staffs. Moreover, the Department has ten well-equipped and modern laboratories. The faculty members are engaged with professional activities in their relevant field of research such as sustainable development in power & energy sector, advanced electrical machine designing, development of efficient electronic devices, telecommunication advancements and so on. With a view to establishing these, the department facilitates workshop, training, consultation, testing service through our testing equipment, machinery and laboratories; a brief description of which are given as follow.

# Training Programs

EEE Department of UAP (offers) can provide training/workshop on following areas with existing internal resources:

- Microcontroller and IoT based system Design- Basic to Advanced;
- Associated Project- 'Intelligent Monitoring & Control System for Smart Home'.
- 'Power World Simulator' Software.
- Introductory workshop on '3-D Designing and Printing'.
- Matlab, Credence (VLSI), Microwind and DSCH (for VLSI), C/C++ Programming.
- 'Quantumwise ATK' & 'Virtual NanoLab' for designing Nano-electric Systems.
- Biomedical Engineering- Application of DSP in Biomedical Signal Analysis.
- Optical Communication: Modelling & Design using 'OPTYSYSTEM, Photonic Software'.
- Designing of Energy Efficient/Green energy Building in Bangladesh.
- Career Development, Academic Research Profile and Research Efficiency.
- Lumerical FDTD and Device Simulation for Optoelectronics and Photonics; and Silvaco TCAD Simulation for Nano-electronic Devices.

# Consultation Services

- Fire Detection & Alarm, CCTV and Access control system- Layout design, estimation, installation, testing and commissioning works.
- Solar Energy system, Solar Grid designing and configuration of control interface.
- Biogas technology, Plant Designing, Environmental Impact Assessment (EIA), Waste Management Plan and technical assessment of Biogas energy intensity.
- Mini Grid Design and installation.
- Designing of Energy Efficient/Intelligent/Green energy Building.
- Supercapacitor and Energy Storage Device for Wind and Solar Hybrid Renewables.

- Optical Communication: Modelling and Simulation.
- Power System Reliability calculation for power system network.
- Design Power Factor Improvement Plant for any residential or industrial load.
- Smart City Planning, Home Automation System design and installation.
- Conduit designing about current rate and design attributes of electrical conduit designs.
- Providing full electrical conduit design solution for a building (Residential/Commercial).

## Design and Test

### Power and Electrical system

- Testing different types of electric cables and insulators.
- Heat Cycle Test for H-Type aluminum connectors as per NEMA Standard.
- Measurement of Active Power, Reactive Power, Apparent Power, Voltage, Current, Power factor and Energy of a Single Phase system using a highly accurate high speed data acquisition enabled Digital Power Meter [Figure 1].
- Measurement of Luminance, power consumption, heat generation and harmonics of various kinds of incandescent bulbs and energy bulbs.

### Digital Electronics and Communication

- Testing various kinds of digital ICs.
- Trouble shooting and fault diagnosis of various electronics and digital systems.
- Measurement of Microwave antenna radiation pattern.
- Testing high frequency devices using Digital Oscilloscope. The 'GW Instek GW-GDS-2202A Series Digital Storage Oscilloscope' offers 2 and 4-channel configurations and wide bandwidth selections. This highly efficient and accurate oscilloscope is significant in applications ranging from DSP (Digital Signal Processing) to power electronics.
- Designing and printing of advanced machines and electronics using 3-D Printer with relevant software.

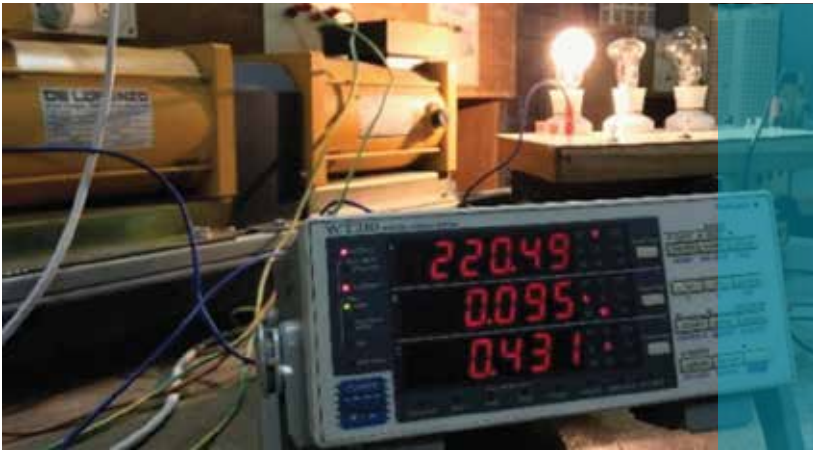


Figure 1: Digital Power Meter: Testing Power Configuration of Energy Light Bulb

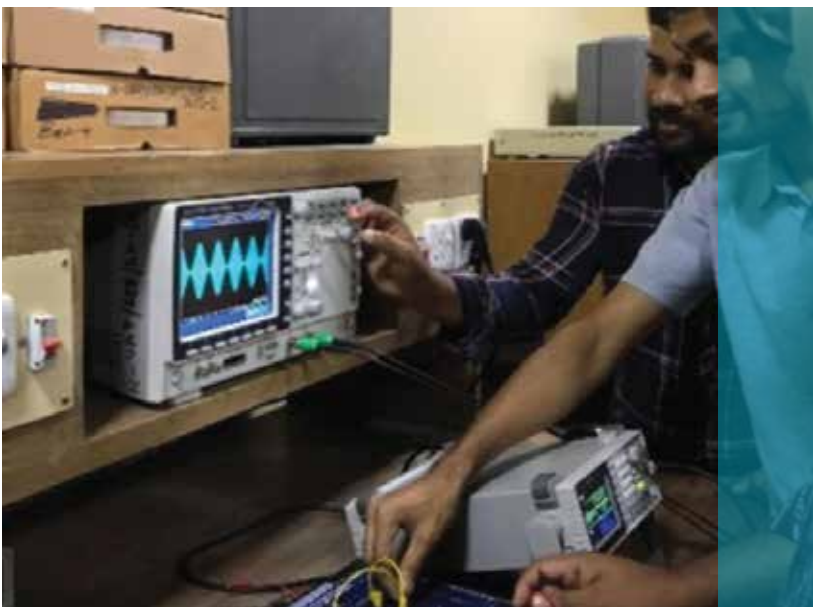


Figure 2: Digital Oscilloscope- Testing High Frequency Signals from DSP Devices



Figure 3: Printing of "Ottobot" Robot using Ultimaker 3 3-D Printer



# Events

## ■ IEEE WING, UAP

IEEE UAP Student Branch has been organizing numerous seminars, workshops and trainings since November 2015. One of the noteworthy workshops in 2018 was hands-on training for two-days on 'Soccer Robot', conducted by Planeter Ltd. where 75 students participated to learn how to make a full-fledged soccer robot. Another workshop on 'Basic Microcontroller' was organized on April 2018 by EEE department. One of the most featured seminars was 'Principle of Coherent Optical Communications' conducted by Prof. Joseph M. Kahn from Stanford University, CA, USA. It is worth mentioning that, IEEE UAP has its own WIE Affinity Group (Women in Engineering) which also works with side by side to make their every event successful.

## ■ Seminar on 'Power and Energy Week 2018'

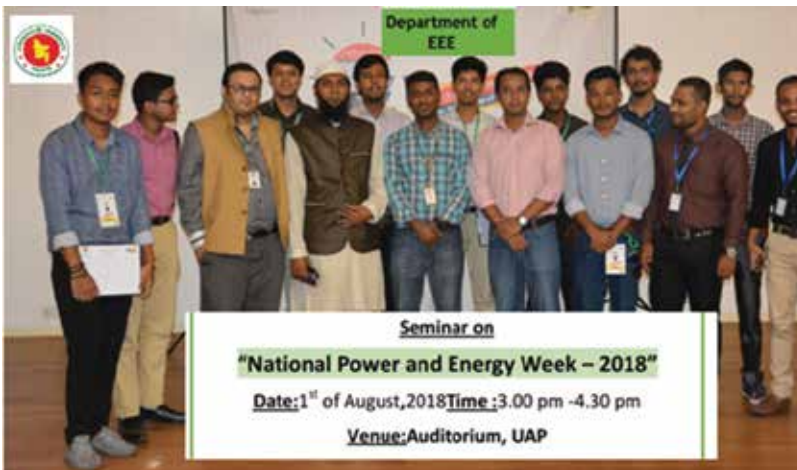
Department of EEE in association with Ministry of Power, Energy and Mineral Resources (MPEMR), successfully organized a seminar on "Power and Energy week-2018" in UAP auditorium on August 1, 2018. The event was later followed by a short project exhibition.



IEEE Wing Seminar on 'Principle of Coherent Optical Communications' by Prof. Joseph M. Kahn, Stanford University, USA



Participants in the seminar during 'Power and Energy Week 2018'



Celebration of 'Power and Energy Week' (August 1, 2018) in joint collaboration between MPEMR (Ministry of Power Energy and Mineral Resources) and UAP



PCEM Session, ICSGCE, Malaysia, 2018 (Session: Power Control and Energy Management, organized by faculty members of EEE Department)



'Champion and 1st Runner Up' in Power and Energy Hackathon 2017, Receiving Prize from Honorable State Minister Nasrul Hamid (MP)

- The faculty of EEE developed novel idea in 'Smart Charging station for Electric Vehicles (EVs) using Solar Power' and secured among 'Top 10 Position' by Ministry of Power, Energy and Mineral Resources, Bangladesh, March 21, 2017.
- Dept. of EEE, UAP formed a Special Session, "Power Control and Energy Management" in a foreign platform, 7th IEEE Conference on Smart Grid and Clean Energy, University of Tunku Abdul Rahim, Malaysia, May 2018 where 3 Research papers were presented successfully. Out of them, one received 'Best paper Award'.





Figure 9: Training on 'Soccer Robot', April 2018 by IEEE Wing, UAP



Figure 11: 'Project Exhibition 2017' on IoT and Assistive Technology



Figure 10: Faculty of EEE secured Top 10 Position for MPEMR Creative Idea Concept, 2017, Receiving Prize from Honorable State Minister Nasrul Hamid (MP)



Faculty of EEE, UAP in IEEE Flagship TENCON18 Region 10 Conference (South Korea), 2018

Figure 10: Faculty of EEE Receiving 'Best Paper Award' and 'Session-Chair' Certificate in 7th IEEE ICSGCE Conference, Malaysia, 2018



# Resource Persons

**Professor Dr. Tapan Kumar Chakraborty**

Head (Dep. Of EEE) and Director (IEERD),  
Ph.D., Kanazawa University,  
Japan

**Dr. Enamul Basher**

Professor,  
Ph.D., Russia

**A.H.M. Zadidul Karim**

Associate Professor,  
M.Eng., BUET, Bangladesh

**Muhammad Ahad Rahman Miah**

Assistant Professor,  
M.Sc., Asian University of  
Technology, Thailand

**Manobendu Sarker**

Assistant Professor,  
M.Sc. BUET, Bangladesh

**Md. Ibrahim Ibne Alam**

Assistant Professor,  
M.Sc. BUET, Bangladesh

**Dr. Kazi Mohiuddin Ahmed**

Professor,  
Ph.D., University of Newcastle,  
Australia

**Golam Rasul Ahmed Jamal**

Associate Professor,  
M.Sc., BUET, Bangladesh

**Md. Sazzadur Rahman**

Assistant Professor,  
B.Sc., BUET, Bangladesh

**Md. Moshir Rahman**

Assistant Professor,  
M.Sc. IUT, Bangladesh

**Shaikh Rashedur Rahman**

Assistant Professor,  
M.Sc. IUT, Bangladesh

**Md. Khairul Alam**

Lecturer University of Asia  
Pacific, Bangladesh

# Department of Pharmacy

Department of Pharmacy, University of Asia Pacific (UAP) started its glorious journey in 1996. UAP has always been well known for its research and training services and to enlarge these spectra of services UAP has established a Centre for Research, Training, Testing and Consultation (CRTTC).

Department of Pharmacy has started the services associated with research, testing, consultation and training with the help of experienced faculty by utilizing their well-equipped laboratories such as Pharmaceutical Analysis Lab, Pharmaceutical Technology Lab, Medicinal Chemistry Lab, Pharmacology & Microbiology Lab, Pharmaceutical Packaging Technology Lab and Cosmetology Lab.



Some laboratories associated with the research activities



# Training

For creating skilled manpower as well as dissemination of research findings, Department of Pharmacy organizes regular training programs, seminars, symposia and workshops. Department of Pharmacy organizes training on:

- High Performance Liquid Chromatography (HPLC)
- Fourier-transform Infrared Spectroscopy (FTIR)
- Analytical tools and techniques
- Biodegradable implants
- Microsphere study
- Pharmaceutical formulation development techniques
- Polymerase Chain Reaction (PCR)
- Gel electrophoresis for DNA identification



Microbiological Study



Gel Documentation System

# Testing Services

- Accelerated stability testing
- Sterility testing
- Tap density measurement
- Digital melting point determination
- Viscosity measurement
- Disintegration test
- Dissolution test
- Hardness testing (Automatic)
- Friability test
- Potency determination by HPLC
- UV Spectrophotometer
- FTIR
- DNA/RNA extraction
- PCR
- ELISA reading (96 wells).



Distillation Apparatus



HPLC System



UV Spectrophotometer



Centrifuge

# Research **Activities**

Department of Pharmacy is playing a dynamic role since its establishment through studying and conducting research on various pharmaceutical formulation techniques and several analytical tools and techniques. Currently this department is contributing research in the fields of Pharmaceutical Formulation Techniques, Pharmaceutical Analysis, Phytochemistry, Pharmaceutical Biotechnology, Pharmacogenomics and Pharmacology. Recent researches are as follows:

- Effect of various excipients and carriers on liposomal drug delivery
- Formulation and in-vitro evaluation of single and multilayer tablets
- Pharmacogenomics study of different gene associations with colorectal cancer, breast cancer etc. in Bangladeshi population
- Study of cognitive effects using CANTAB software
- Investigation of serum levels of various inflammatory markers for better diagnosis and management of depressive disorders
- Formulation of gastro retentive mucoadhesive microspheres
- Extraction and biological investigations of indigenous plant species of Bangladesh
- Compatibility study of different drugs and excipients in different dosage formulations
- Formulation and evaluation of microspheres and niosomal drug delivery system

## **Recently Completed Research Works**

- 'The influence of SMAD1 gene polymorphisms on colorectal cancer' published in the Journal of FEBS Open Bio by John Wiley & Sons (USA)
- 'Formulation and in vitro evaluation of modified pulsincap of amlodipine' published in Turkish Journal of Pharmaceutical Sciences (Turkey)
- 'The effect of chronic alprazolam intake on memory, attention and psychomotor performance' published in Behavioural Neurology (Egypt)
- 'Cognitive impact after short-term exposure to different PPI using CANTAB' published in Alzheimer's Research and Therapy (UK)
- 'Formulation of bi-layer matrix tablets of tramadol' published in Pakistan Journal of Pharmaceutical Sciences (Pakistan)
- Evaluation of serum IL-6 and CRP levels in drug-naïve major depressive disorder patients' published in Cureus (USA).

# Consultation Services

Based on the current aspect of this country, Department of Pharmacy of University of Asia Pacific holds a very strong position in providing consultancy to laboratory development in different emerging institutes and other private universities. Moreover, development of different laboratory and formulation facilities in different pharmaceutical companies are also consulted on a varied level from this department.

The Department of Pharmacy offer the following consultation services:

- Pharmacy laboratory setup for different universities or private organizations
- Development of different laboratory and formulation facilities for pharmaceutical companies

*(Detailed information on consultancy services can be obtained from the Department of Pharmacy, UAP.)*

## Resource Persons

### **Dr. Swarnali Islam Khandaker**

Professor & Head  
Ph.D., Dhaka University

### **Dr. Sardar Mohd. Ashraful Islam**

Professor  
Ph.D., Dhaka University

### **Dr. Mohammad Shahriar**

Associate Professor  
B. Pharm, MS Pharm Tech, UAP  
PhD., Jahangirnagar University

### **Dr. Md. Rabiul Islam**

Assistant Professor  
Ph.D., Dhaka University

### **Dr. Md. Ahsanul Haque**

Assistant Professor  
Ph.D., Shimane University, Japan

### **Dr. Mohiuddin Ahmed Bhuiyan**

Professor  
Ph.D., Niigata University of  
Pharmacy & Applied Life  
Sciences, Japan

### **Dr. Zabun Nahar**

Associate Professor  
Ph.D., Dhaka University

### **Dr. Irin Dewan**

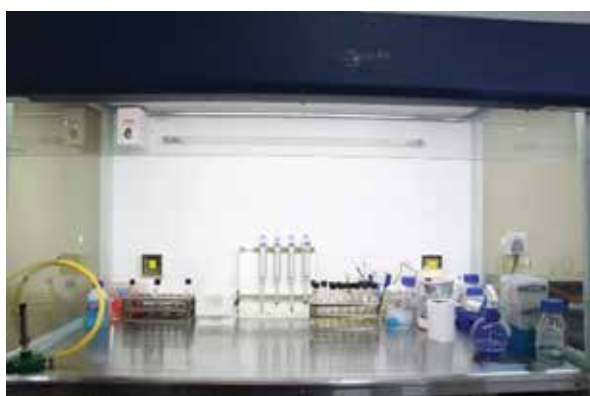
Associate Professor  
B. Pharm, MS Pharm Tech, UAP  
PhD., Jahangirnagar University

### **Md. Asaduzzaman**

Assistant Professor  
B.Pharm (Hons), M.Pharm., DU

# Events

- 'Career Development' on future prospects of pharmacists in different healthcare sectors
- 'Pharma Market and Marketing' for enlightening young pharmacists and entrepreneurs with the professional experiences



# Department of Business Administration

Founded in 1996, the business school has come a long way, having carved out a niche for itself as an institution committed to imparting high quality business education in the country. The mark of this quality is amply manifested by the academic rigors as well as the market relevance of our three programs: BBA, MBA and EMBA. This is supplemented by the training workshops as offered by the school, designed to cater to the growing needs of the business professionals, enhancement of their career, leading to a transformation of individual lives.

## Training

- Tally. ERP-9 Software Training Workshop
- Training Workshop on Quantitative Research
- Certificate Course on Developing Business English Skills
- Certificate Course on Supply Chain Management

## Workshop

- Day long workshop on career planning and leadership ( certificate will be given)
- Workshop on solving case studies
- Day long workshop on 'Facing professional world smartly'.
- Workshop on research methodology: how to define variables and fixing model.



# Resource Persons

**Dr. Mohammed Tareque Aziz**

Professor  
Ph. D in Relationship  
Marketing in Retail Industry  
University Utara Malaysia-  
AACSB

**Dr. M. A. Baqui Khalily**

Professor  
Ph.D in Development  
Economics  
Ohio State University, USA

**Shahriyar Anam**

Professor  
B.Sc. Engg., BUET,  
MBA(IBA,DU) Dr. Khair

**Jahan Sogra** Lorem ipsum

Professor, IBA, DU.  
Coordinator, MBA and  
EMBA Programs (UAP)  
Ph.D, Macquaire University,  
Sydney, Australia.

**Dr. Mahbubul Haque**

Associate Professor  
Ph.D. IIUM, Malaysia

**Sarwar Razzaq Chowdhury**

Associate Professor  
MBA, Bangkok University,  
Thailand

**Shamsad Ahmed**

Associate Professor & Head  
M.Pharm.(DU), MBA, (IBA,  
DU)

**Jesmin Sultana**

Associate Professor  
MBA, (Strathclyde  
Graduate Business  
School,UK

**Afia Muqtadir**

Associate Professor  
MBA (IBA, DU)

**Farzana Elahi**

Assistant Professor  
M. Com., Management, DU

**Shayla Binta Sayeed**

Assistant Professor  
MSC, Newcastle University,  
UK

**Tasneem Tarannum**

Assistant Professor  
MBA, Dhaka University

**Leena Afroz Mostofa**

Chowdhury  
Assistant Professor  
MBA in (AIS), DU

**Muhammed Obaidul H.  
Choudhury**

Senior Lecturer  
M.Com.(DU)

**Tahmeem Siddiqi**

Lecturer  
MBA in Marketing, DU

**Imroz Mahmud**

Lecturer  
MBA in Finance, DU

**Samira Sahel**

Lecturer  
MBA in Marketing, IBA, DU

**Barnali Nandi**

Lecturer  
MBA in Marketing, DU

**Sisili Rahman**

Lecturer  
MBA in Finance, DU

**Mohammad Rakiv**

Lecturer  
MBA in Accounting and  
Information Systems, DU

**Jaber Al Islam**

Lecturer  
MBA in Accounting and  
Information System, DU.

**Maeen Uddin**

Lecturer  
MBA in Human Resource  
Management (HRM), DU

**Ahmed Tausif Saad**

Lecturer  
BBA, MBA (IBA)

**Rubaba Nazneen Noor**

Lecturer  
MBA in Finance, DU.

**Ms. Nazreen Tabassum  
Chowdhury**

Assistant Professor (On  
study leave)  
MBA in Finance, IIUM, Ma

**laysia Umana Anjalin**

Assistant Professor (On  
study leave)  
MBA, IBA, DU.

# Law and Human Rights

There is a well-known saying that ignorance of law is no excuse. Accordingly, it is imperative that everybody has basic knowledge of the law of the land. The Department of Law and Human Rights of University of Asia Pacific has been spreading legal knowledge since its inception in 2005 both in academic and non-academic spheres. As an academic institution it can claim pride in producing numerous graduates working in the country and abroad with demonstrated skill and reputation. The faculty members of the Department are decoding the complex issues of laws not only in the classrooms through lectures but also in national domain through their esteemed research publications and op-eds in the national dailies. The ultimate motto of the Department is to create knowledgeable leaders who will drive the country through legal culture.

## Training

- Advanced Legal Research Methodology
- Drafting and Vetting of Legal Documents
- BAR vocation courses (BVC)

# Consultation **Services**

- Preparation and opinion on different types of contracts
- Family issues (Marriage, divorce, dower, maintenance, custody and guardianship)
- Land issues
- Inheritance issues
- Company and partnership matters
- Tax matters
- Construction laws
- Banking and Finance
- Immigration laws
- Intellectual property laws
- Labor and employment laws
- IT and Cyber laws
- Arbitration and mediation
- Criminal matters (ezhar, FIR, arrest, detention, bail etc.)

## Research

The faculty members of the Department of Law and Human Rights pursue in the following areas:

- Status of Human Rights in Bangladesh
- Good governance and Human Rights in Bangladesh
- Legal education
- Revisiting penal laws
- Constitutional laws of Bangladesh
- Energy laws and cross border pipeline
- Civil litigation in Bangladesh
- Alternative to imprisonment
- Women rights issues
- Climate justice
- Law and religion
- Introduction of restorative justice in Bangladesh
- Uniform family code
- Fundamental principles of state policy in Bangladesh

# Resource Persons

**Salahuddin Ahmad**

Director, School of Law  
MA, University of London  
LL.M, Columbia Law School  
Former Attorney General for  
Bangladesh

**Dr. Shahdeen Malik**

Adjunct Professor  
Ph.D., School of Oriental and African  
Studies, London University  
Advocate, Supreme Court of  
Bangladesh

**Md. Abdur Rahim**

Assistant Professor  
LL.M, Rajshahi University

**Muhammad Rezaur Rahman**

Assistant Professor  
LLM in Comparative Law, McGill  
University, Canada

**Md. Lokman Hussain**

Lecturer  
LL.M, Dhaka University

**Md Sazzad Hossain**

Lecturer  
LLM, Southbank University, UK

**Azizun Nahar**

Lecturer  
LL.B (Hons), LL.M, Dhaka University

**Prof. Dr. Mizanur Rahman**

Adjunct Professor  
Ph.D., Friendship University, Russia

**Dr. Chowdhurylshrak Ahmed Siddiky**

Assistant Professor  
PhD Energy Law, CEPMLP,  
University of Dundee (UK)  
Barrister, Called to the English Bar  
from Middle Temple.

**Nazia Wahab**

Assistant Professor  
Post Graduate Diploma, University  
of Fribourg, Switzerland

**Md. Saleh Akram**

Lecturer  
LLM, University of Asia Pacific  
MSS in Social Welfare with  
Victimology and Restorative Justice  
(VRJ) University of Dhaka

**Alida Binte Saqi**

Lecturer  
LLM in Comparative Law (McGill  
University, Canada),

**Farzana Akther**

Lecturer  
LL.M, Dhaka University



External Experts visited the Department of Law and Human Rights under HEQEP project and accredited the department as VERY GOOD.



A student from McGill University, Canada conducted a research under supervision of Head of the Department of Law and Human Rights.



Four students of the Department of Law and Human Rights attended AsianSil Youth Forum held in Thailand.





As a part of clinical legal education, the students of the Department of Law and Human Rights are participating in a mock trial session.



Round table discussion on Human Rights in Bangladesh attended by the legal luminaries of Bangladesh.



As a part of clinical legal education, the students of the Department of Law and Human Rights visited Bandarban District and Sessions Judge Court in a study tour program.



# Department of English

The Department of English of the University of Asia Pacific was established in 2010 with the permission from the University Grant Commission (UGC). Before emerging as an independent department, English Section was a part of the former Interdepartment (Department of Basic Science of Humanities at present) The department offers a 4 year long undergraduate programme (120 credits) in English Language and Literature and a 1 year long MA programme in Applied Linguistics and ELT (36 credits). Besides, it also offers two language courses to the students of other departments. At present, a total number of eighteen (18) faculty members (3 are currently on study leave) are serving at the department: two Associate Professors, six Assistant Professors and ten Lecturers.

# Linguistic Courses

At present the department has the following courses which is open for all.

- **ELPC Courses**

The Department of English offers Foundation English Courses to the newly enrolled students of all the departments each semester and remedial courses to the regular students.

- **English for Professional Communication (EPC)**

- **IELTS Preparation Course (IPC)**



The faculty members engage themselves in following research areas-

- Use of L1 in Language Teaching
- The Holocaust and Trauma
- Nation, Identity and Marginality
- Photograph and Historical Trauma
- Psychoanalysis
- Feminism
- Material Design

## The department of English organize different workshops.

- Workshop on Academic Writing and Effective Feedback



Workshop on Academic Writing conducted by Prof. Tahmina Ahmed and Prof. Dr. Tazin Aziz Chaudhury

- Workshop on The basics of IELTS conducted by Ms. Arjumand Ara



IELTS workshop conducted by Ms. Arjumand Ara, Assistant Professor, Dept. of English

- Workshop on Teaching intelligible English Pronunciation effectively with the English Pronunciation Dictionary for Bengalis (EPDB) conducted by Mr. Amin Rahman
- Workshop on Effective Communication: The Role of Debate and Public Speaking conducted by Mr. Mehedi Hossain
- Workshop on Creative Writing on July 12, 2018

# Resource Persons

Sl.	Name	Designation	Qualification and Experiences
1	Ms. Arjumand Ara	Assistant Professor	MA in TESOL, University of Nottingham, UK. M.A. in Applied Linguistics and ELT, University of Dhaka B.A. Honors in English Literature, University of Dhaka. Diploma in French language, (France).
2	Mr. Takad Ahmed Chowdhury	Associate Professor (On Study Leave)	B. A. (Hons), M. A. in English Literature, University of Dhaka M. A. in ELT, University of Dhaka.
3	Dr. Mehnaz Tazeen Choudhury	Associate Professor	Ph.D.. in ELE, Hyderabad M.A. in ELT , Presidency University B.A. (Hon.), M.A. in English, University of Dhaka
4	Ms. Nellufar Yeasmin	Assistant Professor (On Leave)	B. A. (Hons), M. A. in English Literature, Rajshahi University.
5	Ms. Keya Chakraborty	Assistant Professor	B. A. (Hons), M. A. in English Literature, Dhaka University.
6	Ms. Sharifa Akter	Assistant Professor	B.A.(Hons.), English M.A., English, Jahangirnagar University
7	Ms. Bidisha Zaman	Assistant Professor	M.A. in Applied Linguistics & ELT, B.A.(Honours) in English, University of Dhaka.
8	Ms. Afroza Aziz Suchana	Assistant Professor	M.A. in Applied Linguistics & ELT, B.A. (Hons) in English University of Dhaka
9	Ms. Israt Zarin	Assistant Professor	B.A. (Hons.), English M.A., English, Islamic University, Kushtia



Sl.	Name	Designation	Qualification and Experiences
10	Ms. Niger Afroz Islam	Lecturer	B.A. (Hons.), English M.A., English, Islamic University, Kushtia
11	Mr. KaziAmzad Hossain	Lecturer (On Study Leave)	M.A.in Applied Linguistics & ELT, B.A. (Honours)in English, University of Dhaka.
12	Ms. Sadia Afrin Shorna	Lecturer	M.A.in Applied Linguistics& ELT, B.A.(Honours)in English, University of Dhaka.
13	Mr. Saimum Rahman Prattay	Lecturer	M.A.in English Literature,B.A.(Honours)in English, University of Dhaka.
14	Mr. Md. Abu Shahid Abdullah	Lecturer	PhD in English Literature, Germany Masters in English and American Studies (Germany), Masters in English (SUST)
15	Ms. RokeyaSarker Rita	Lecturer (On Study Leave)	B.A.(Honours), MA in English Literature from Department of English, University of Dhaka.
16	Arpita Haque	Lecturer	B.A.(Honours), M.A. in Applied Linguistics and ELT, from Department of English, University of Dhaka.
17	Iffat JahanSuchona	Lecturer	M.A. in Applied Linguistics and E.L.T and B.A. (Honors) in English, University of Dhaka.
18	Sayma Raian	Lecturer	M.A. in Applied Literature; B.A. (Honors) in English, University of Dhaka.
19	Mr.Sabbir Ahmed Dibbo	Lecturer	M.A.in Applied Linguistics & ELT, B.A. (Honours) in English University of Dhaka.
20	Sabrina Islam	Lecturer	M.A.in Applied Literature, B.A.(Honours) in English, University of Dhaka.



# Basic Sciences and Humanities

Echoing with the global demands, the Department of Basic Sciences and Humanities has been established to ensure high quality and creative education for aspiring students. An engineering student must not only have a sound basis in the engineering but also should be aware of basic sciences, socio-economic issues of the present world. Therefore, courses in Physics, Mathematics, Biology, Sociology, Chemistry and History are included in the curricula. To maintain quality education, the department has pooled highly experienced and accomplished professionals of 10 faculty members including 02 Professors, 04 Assistant Professors and 04 Lecturers.

# Training Services

Training Program on SPSS (Statistical package for the Social Science)



## Resource Persons

### **Dr. Md. Sultan Mahmud**

Professor of Physics & Head  
Ph.D. Khulna University of  
Engineering and Technology (KUET)  
under joint collaboration with  
International Program for Physical  
Sciences (IPPS), Uppsala University,  
Sweden, 2008

### **Md. Anisur Rahman**

Assistant Professor of Physics  
M. Phil., Bangladesh University of  
Engineering and Technology (BUET),  
2009

### **Md. Nahian Chowdhury**

Assistant Professor of Physics  
M Sc., Shahjalal University of  
Science and Technology, 2008

### **Dr. Sanjit Kumar Paul**

Professor of Mathematics  
Ph.D. in Physics, Jahangirnagar  
University, 2011

### **Ms. Layeqa Bashir**

Assistant Professor of Sociology  
MSS, University of Dhaka, 1998

### **A. S. M. Mohsin**

Assistant Professor of History  
M. Phil., University of Dhaka, 2017

### **Samsun Nahar**

Lecturer in Mathematics  
M. Phil., Bangladesh University of  
Engineering and Technology (BUET),  
2018

# ILTS

**Improving Learning and Teaching Skills**, commonly known as ILTS is a teachers' training program organized by University of Asia Pacific (UAP), initiated, co-ordinated and supervised by Dr. M. R. Kabir, Pro Vice Chancellor, UAP with the assistance of a few trained faculty members from different departments of the university. This 36 hour long program includes training on the contemporary concepts of teaching and learning in contrast with the traditional approaches, student-centric behavior in the classroom, classroom management, research activities as well as the different features of the concept of outcome based education (OBE), all of which are conducted by experienced and well-known resource persons in the respective field.

Hands on training on the lesson plan design, question paper set-up and course assessment rubrics, interactive sessions, mock classes and above all, a research and publication session by Dr. Jamilur Reza Choudhury, National Professor and Vice Chancellor, UAP are some of the highlighting features of the program. The program is designed on a dynamic process based on the feedback of the current and past participants. This program is intended not only for the in-house faculty members but also open to all faculty members from any university.



Honorable Vice Chancellor and National Professor Dr. Jamilur Reza Choudhury taking session on research and publication.



Resource person presenting pedagogy techniques.

# Awards **and** Recognitions



UAP-CE Dept. gets ACI Outstanding University Award



Associate Professor Dr. Tanveer Ferdous Saeed gets UGC Gold Medal from President for outstanding research



UAP-CE receives 'Seven Rings Cement Award 2018' for outstanding contribution to nation building



UAP 2019

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