

## ICREST'23 Program Schedule

### Day 1: Saturday, January 7, 2023

Track: [D1P11] Power, Energy & Industry App. (I)

Venue: DS0706

Chair: Dr. Tanbir Ibne Anowar

Co-chair: Prof. Dr. Munshi Mahbubur Rahman

Date	PID	Titles
January 7, 2023; Time: 09:00 - 10:45	8	Design and Implementation of IoT-Based Load Monitoring and Outage Management System Anwar, Ahmed Muntasir M*; Hazari, Md. Rifat; Mannan, Mohammad Abdul
	45	Design and Analysis of IoT-Based Adaptive Microgrid System including Renewable Energy Sources for Decentralized Zones Deowan, Md. Ether*; Nuhel, Ahsan Kabir; Sazid, Mir Mohibullah; meghla, Rehenuma Tabassum; Haider, Iftekhar; Hazari, Md. Rifat
	78	Design and Implementation of IoT-Based Smart Energy Meter to Augment Residential Energy Consumption Midul, Hayat Shahjee*; Pranta, Shahadat ; Biddut, Al Shaharea Islam; Islam, Siam Sifatul; Hazari, Md. Rifat; Mannan, Mohammad Abdul
	177	An IoT Based Smart Grid: Peer-to-peer Energy Trading for Electric Vehicles Using M2M Communication Technology Nisat, Asaduzzman Noor; RATUL, MAHIR SHAHRIAR; ASIF, ISHAK AHMED; HASSAIN, HASIBUL; Ahmed, Abir*

Track: [D1P12] Robotics, Automation & Control (I)

Venue: DS0707

Chair: Dr. Mohammad Mahmudul Hasan

Co-chair: Dr. Md. Jahid Hasan

**Invited Talk:** **Mr. Shahriar Bin Lutfor**  
Director and Head of CE Business, SAMSUNG Electronics Co. Ltd, Bangladesh

Date	PID	Titles
January 7, 2023; Time: 09:00 - 10:45	14	Performance Analysis of the AVR Using An Artificial Neural Network and Genetic Algorithm Optimization Technique Goswami, Niloy*; Habib, Md. Redowan; Shatil, Abu Hena M; Ahmed, Kazi Firoz
	38	Smart Early Flood Monitoring System Using IoT Halder, Ratul ; Yeamin, Md. Hanjala*; Saifullah, Md. Khaled; Hussain, Shihab ; Sharma, Aninda Kumar; Amin, Tanjil
	47	Drone-Based, Real-Time Air Pollution Monitoring for Low-Access Areas Using Mobile, Smart Sensing Technology Development Limon, Istiak Ahammad *; Hossain, Ali Daud; Faruque, Khan Farhan Ibne; Uddin, Mohammad Rejwan; Hasan, Mahady
	142	Single Axis Solar Based Automatic Water Pump Control with Turbidity and pH Measuring Karmarker, Sudipta; Halder Shovo, Shobhasish*

<b>Track: [D1P13] Computing, AI, Big Data and Networking (I)</b>		
<b>Venue: DN0709</b>		
<b>Chair: Dr. Akinul Islam Jony</b>		
<b>Co-chair: Prof. Dr. Muhibul Haque Bhuyan</b>		
<b>Invited Talk:</b>	<i>"Smart City Initiatives in Australia"</i> <b>Dr. Md. Emran Amin</b> Spectrum Planning Eng, Australian Communication and Media Authority (ACMA)	
<b>Date</b>	<b>PID</b>	<b>Titles</b>
January 7, 2023; Time: 09:00 - 10:45	2	Predicting Mushroom Edibility with Effective Classification and Efficient Feature Selection Techniques Morshed, Samin Md.*; Ashraf, Faisal Bin; Islam, Muhammad Usama; Shafi, Md. Shafiur Raihan
	9	A Comprehensive Study of Camouflaged Object Detection Using Deep Learning Bin Khair, Khalak*; Jahir, Saqib ; Ibrahim, Mohammed; Karmaker, Debajyoti
	31	An Integrated Approach of MCDM Methods and Machine Learning Algorithms for Employees' Churn Prediction Chowdhury , Shefayatuj Johara; Mahi, Mainul Islam*; Saimon, Md. Sadiquul Alam; Nahar, Aynur; Nabil, Rashidul Hasan
	37	ReChain-A Blockchain Network for Review and Rating System Ahmed, Rayhan; Islam, Md. Sajedul*; Osmani, Sabbir Ahmmed; Shakil, Md. Ahanab; Mazid-Ul-Haque, Md.; Amin, Md.Al-
<b>Track: [D1P14] Components, Circuits &amp; Devices (I)</b>		
<b>Venue: DN0710</b>		
<b>Chair: Dr. Mohammad Alif Arman</b>		
<b>Co-chair: Dr. Md. Kabiruzzaman</b>		
<b>Invited Talk:</b>	<i>"Quantum dots and light-trapping texture for efficient photo-thermal energy conversion"</i> <b>Dr. Ahmed Mortuza Saleque</b> Postdoctoral Fellow, Hong Kong Polytechnique	
<b>Date</b>	<b>PID</b>	<b>Titles</b>
January 7, 2023; Time: 09:00 - 10:45	6	Performance Enhancement of Conventional Design of 4-Bit Carry Look-Ahead Adder Joy, Upal Barua*; Chakraborty, Avishek; Sen, Swagata; Das, Arka; Biswas, Preyonti; Tasnim , Afra
	7	Two-Bit Magnitude Comparator Design Using Gate Diffusion Input Technique and Static CMOS Logic Joy, Upal Barua*; Chakraborty, Avishek; Biswas, Preyonti; Das, Arka; Sen, Swagata; Tasnim , Afra
	102	Analysis of Layered Shielding for Capacitive Wireless Power Transfer Application Rahman, Minhazur*; Ahmed, Kaushik; Islam Nuhin, Md. Ikramul; Ali, M Tanseer
	141	Design and Implementation of a Low-cost Solar Charged Portable Disinfectant Chamber Rofique, Ruham*; Arafat Alif, MD. Yasin ; Himu, Suprio Saha ; Naima, Fahmida Zahin ; Hossain, Chowdhury Akram A

<b>Track: [D1P21] Power, Energy &amp; Industry App. (II)</b>		
<b>Venue: DS0706</b>		
<b>Chair: Dr. Mohammad Tawhidul Alam</b>		
<b>Co-chair: Dr. Md. Kamrul Hassan</b>		
<b>Invited Talk:</b>	<b>Mr. Sohel Ahmed</b> Managing Director, Grameen Shakti	
<b>Date</b>	<b>PID</b>	<b>Titles</b>
<b>January 7, 2023; Time: 15:30 - 17:00</b>	10	Fuzzy Logic-Based Design Optimization and Economic Planning of a Microgrid for a Residential Community in Bangladesh Hasan, Sayeed*; Hazari, Md. Rifat; Mannan, Mohammad Abdul
	22	DESIGN OF AN OFF-GRID SOLAR-WIND-BIO HYBRID POWER GENERATION FOR REMOTE AREAS OF CHAPAI-NAWABGONJ DISTRICT IN BANGLADESH USING HOMER Saifullah, Md. Khaled*; Halder, Ratul; Afroz, Shawon; Shatil, Abu Hena M; Ahmed, Kazi Firoz
	86	Feasibility Analysis of Off-Grid Hybrid Renewable Energy for Rohingya Refugee in Bhasan Char Nuha, Nurjahan Amin; Injam, Md. Tanbir Siddik ; Chowdhury, Nusrat*
	146	An Affordable Solution for the Rural Farmers for Irrigation Purpose Including Hybrid Power Source using Solar and Biogas Jahid, Hasan ; Anik, Asif Iqbal*; Mishu, Suborna Sharmin; Mohajan, Iebho; Hossain, Chowdhury Akram A; Hazari, Md. Rifat; Shikder, Kawshik
<b>Track: [D1P22] Robotics, Automation &amp; Control (II)</b>		
<b>Venue: DS0707</b>		
<b>Chair: Dr. MD MEHEDI HASAN</b>		
<b>Co-chair: Dr. Mohammad Shidujaman</b>		
<b>Invited Talk:</b>	<i>"Digitization in order to compete and succeed"</i> <b>Mr. Sarker Sohel Ahmed</b> EVP, Robi Axiata Limited	
<b>Date</b>	<b>PID</b>	<b>Titles</b>
<b>January 7, 2023; Time: 15:30 - 17:00</b>	28	Development of a Facial Recognition Robot Noorani, Rafiqul I*
	87	Performance Analysis of Load Frequency Control for Power Plants Using Different Optimization Techniques Goswami, Niloy*; Shatil, Abu Hena M
	96	DESIGN AND IMPLEMENTATION OF SMART WHEELCHAIR WITH ADVANCED CONTROL INTERFACES Shifa, Shina Mifta; Sagor, Abidur Rahman ; Mridul, Towfiq Mahmud*; Monjur, MD. Hasan ; Islam, MD. Rokibul ; Rafat, Sadman Sakib
	216	Anomaly Detection and Fault Localization for Solar PV System Kabir, Shaharier*; Shufian, Abu; Zishan, Md. Saniat Rahman
	219	DESIGN AND IMPLEMENTATION OF SMART DRAINAGE SYSTEM FOR BANGLADESH ALAM, MOHAMMAD SHAMIUL ; Sitara, Sawnjida; IRIN, AFROZA SULTANA; Anu, Anika Tabasum; Ahmed, Abir*; Zishan, Md. Saniat Rahman

Track: [D1P23] Computing, AI, Big Data and Networking (II)		
Venue: DN0709		
Chair: Dr. Kamruddin Md. Nur		
Co-chair: Dr. Md. Humayun Kabir		
<b>Invited Talk:</b> "EEG Signal Processing and Application to the Neurofeedback: Operant Conditioning of Brain & Behaviors"		
<b>Prof. Dr. MOK Wahedi</b> Visiting Professor, Brac University		
Date	PID	Titles
January 7, 2023; Time: 15:30 - 17:00	90	Computational fluid dynamics (CFD) analysis of thermoelectric generator for Regenerative Braking of the Hybrid Electric Vehicle Saif, MD. Zilan Uddin*; Ahmed, Md Rasel; Hanif, Md Abu; Tasnim, Farhan ; Hossain, Chowdhury Akram A
	167	Development of High Performance Single Inductor Quadratic Multilevel DC- DC Step-Up Converter with MPPT Controller Akter, Khadiza*
	175	Analytical Comparison of the Impact of Si and GaAs as Materials in Designing 3D Density Gradient Nanowire MOSFET for Low Power Applications Nazreen, Syeda Fahima*; Ali, M Tanseer
	179	Study of Different Gate Materials on Performance of Si Based MOSFET Mizan, Al Mamun*; Nazreen, Syeda Fahima; Ashraf, Saqlain; Kabir, A. Z. M. Tahmidul; Gomes, John Maxwell; Karmoker, Sristy; Nabil, Nazmus Sakib; Kabiruzzaman, M
	196	Comparative simulation of GaAs and AlGaAs based on triple Barriers-Resonant tunneling Diode Paul, Rupa*; Mannan, Lamia; meem, tahseen; Hasan, Mehedi
Track: [D1P24] Selected Topics In STEM (I)		
Venue: DN0710		
Chair: Dr. Md. Ehasanul Haque		
Co-chair: Dr. Shameem Ahmad		
<b>Invited Talk:</b>		
Date	PID	Titles
January 7, 2023; Time: 15:30 - 17:00	3	IoT based seat reservation system for university bus with wireless network Eftekhar Alam, Md.eftekhar*; Abdul Kader, Mohammed; Jubida Bahar, Saba; Sultana, Fahima ; Farid , Sahrin; Arefin, Muhammed Nazmul
	60	An IoT Based Smart Vault Security and Monitoring System with Zero UI Chowdhury Joy, Md Hasanuzzaman ; Mohammed Abdul Karim, Mowaz*; Choudhury , Afif H; Razin, Md.; Mithila Ahmed, Sadia Nowrin
	144	Lead-free (Na0.5Bi0.5)0.45Ba0.40Sr0.15TiO3 ceramic: Preparation, nanostructure, and P-E loop properties Islam, Md. Aliful*; Zubair, Mohammad A
	145	Surface Damage Detection of Line Insulators Using Deep Learning Algorithms to Avoid Insulation Failure Rayhan, K. M.*; Roy, Shuvo Dip; Sadid, Md. Fahimul Haque; Ahmed, Kazi Firoz ; Shatil, Abu Hena M

## Day 2: Wednesday, January 8, 2023

Track: [D2P11] Power, Energy & Industry App. (III)  
Venue: DS0706

Chair: Dr. Mohammad Mostafizur Rahman Biswas  
Co-chair: Dr. Md. Rifat Hazari

**Invited Talk:** *"Just transition towards defossilised energy systems for developing economies: A case study of South East Asian Countries"*  
**Dr. Duong Minh Quan**  
Associate Professor, University of Science and Technology, Vietnam

Date	PID	Titles
January 8, 2023; Time: 09:30 - 11:30	84	Analysis of a Grid Tie Inverter for attaining the Maximum Power Factor and Minimum Total Harmonic Distortion Salim, Khosru M.; Nayeem, • Sheikh Md.; Nadi, Navila Rahman*; Anik, Zahid Hasan
	126	Different Converter Integration and Performance Assessment of a Multi-Stage Transformer Less Grid Tie Inverter Using Thin Film PV Array Sakib, Iftadul Islam; Uddin, Mohammad Rejwan*; Faruque, Khan Farhan Ibne; Al Mamun, Abdullah; Salim, Khosru M.
	158	Total Harmonic Distortion Reduction in a Power Grid: A UPQC Based Approach Pathik, Bishwajit Banik*; Islam, Sanjid; Zaman, Md Salman; Akram, Nur Mohammad; Al-Nahian, Md. Abdullah
	166	Techno-Economic Feasibility Analysis of Hybrid System in Bangladesh – A Case Study for Higher Learning Institution Uddin, Mohammad Rabib*; Shafee, Adnan; Dev, Upama; Ahmad, Shameem; Howlader, Sujan S; Islam, Mohammad Zohurul; Pullock, Meharub Hossain; Khan, Abrar Jahin

Track: [D2P12] Robotics, Automation & Control (III)  
Venue: DS0707

Chair: DR. MD. SOHIDUL ISLAM  
Co-chair: Dr. Rinku Basak

Date	PID	Titles
January 8, 2023; Time: 09:30 - 11:30	106	A Simulation of a Robot Operating System Based Autonomous Wheelchair with Web based HMI using rosbridge Islam, Md.Touhidul*; Hameem, Imtiaz Reza; Saha, Shuvra; Chowdhury, Mohammad Jamilur Reza; Deowan, Md. Ether
	135	Designing of an Autonomous System for Electric Vehicle Mridul, Towfiq Mahmud*; Sagor, Abidur Rahman; Mridha, Faisal Ahmad; Bhuiyan, Md. Mosaraf Hosen; Hasan, Md. jahid; Rahman, Md. Abdur
	136	IoT Based Air Quality & Noise Pollution Monitoring System DATTA, AMIT; ISLAM, MD.MONJURUL; HASSAN, MD. SABBIR; AKA, KUASHA BOSU; Ahamed, Istiaque*; Ahmed, Abir
	155	Solar Powered Smart Irrigation System Based on Internet of Things (IoT) Using Microcontroller Niloy, Sifatuzzaman*; Sumona, Fahima Haque; Khan, Mehedi; Islam, Mohammad Zohurul; Ahmad, Shameem; Howlader, Sujan S

Track: [D2P13] Computing, AI, Big Data and Networking (III)		
Venue: DN0709		
Chair: Dr. Md. Sakir Hossain		
Co-chair: Dr. Shuvra Mondal		
<b>Invited Talk:</b>	<i>"Digital Transformation in financial and ICT sector of Bangladesh"</i> <b>Mr. A M Ehsan-ul Haque</b> Chief Operating Officer, ADN Technologies Limited.	
Date	PID	Titles
January 8, 2023; Time: 09:30 - 11:30	21	Design and Implementation of Embedded Sensor Network for an Automated Radio Telescope Meah, Kala*; Hake II, DonanI; Babcock, David; Bosse, Eric; Nelson, Blake
	76	Blockchain Based Secured Refugee Identity Management by Using the Assistance Smart Contract Habib, Ahsan*; Refat, Towsif; Ahad, Md T
	80	Software Design, Development, and Implementation for an Automated Radio Telescope Franks, Tyler; Hake II, DonanI; Babcock, David; Meah, Kala*; Ullery, Todd; McHugh, David; Herr, Derek
	190	Action Recognition Based Real-time Bangla Sign Language Detection and Sentence Formation akash, Shartz Khan*; Chakraborty, Debobrata; Kaushik, Mehedi Mahmud; Babu, Barsan saha; Zishan, Md. Saniat Rahman
	220	Toward a Transfer Learning Approach to Detect Face Mask Type in Real-time Ibnath, Takia ; Dey, Ashim*
Track: [D2P14] Bioengineering Technologies (I)		
Venue: DN0710		
Chair: Dr. Md. Kafiul Islam		
Co-chair: Dr. Mohammad Hasan Imam		
<b>Invited Talk:</b>	<i>"Recent Trends and Challenges in Artifact Detection and Removal from Biomedical Signals - An Overview"</i> <b>Dr. Kafiul Islam</b> Associate Professor, Independent University	
Date	PID	Titles
January 8, 2023; Time: 09:30 - 11:30	16	ELECTRICAL IMPEDANCE MEASUREMENT TECHNIQUE TO DETERMINE THE IMPEDANCE OF A VOLUME CONDUCTOR WITH EMBEDDED OBJECT Mobarak, Mahjabin; Mobarak, Mahjabin*; Moniruzzaman, MD.
	79	Wastewater Microbial Fuel Cell Stack with the Ability of Driving Low Power Electronic Load Joy, Upal Barua*; Uddin , Mohammed Moin; Khan, Nayeem Uddin Ahmed; Banna, Md. Hassannul; Tushar, Shahadat Hossain; Kabir , Kazi Md Shajedul
	148	Design and Implementation of Regulated Oxygenation Based ventilation ssystem with Feedback Mechanism Faiz, Rethwan ; Alam, Nuzat Nuary; Araf, Md Abdullah ; Saha, Ayan; Imam, Dr. Mohammad Hasan*
	150	Detection of Myocardial Infarction Using Hybrid CNN-LSTM Model Firoz, Muhtasim; Faiz, Rethwan ; Alam, Nuzat Nuary; Imam, Dr. Mohammad Hasan*



	161	Human Lung Non-Invasive Anomaly Detection through UWB Microwave Imaging and Diagnosis of COVID-19: A Possible Application Nuhel, Ahsan Kabir*; Deowan, Md. Ether; Sazid, Mir Mohibullah; Sakib, Najmus; Rahman, Md Eyasin; Amin, Muhammad Al
	206	Design of Industrial Robotic Arm For Surgical Applications Chowdhury, Hafizur Rahman; Hossain, Sarowar; Imam, Dr. Mohammad Hasan*
<b>Track: [D2P21] Power, Energy &amp; Industry App. (IV)</b> <b>Venue: DS0706</b>		
<b>Chair: Dr. Md. Abdur Razzak</b> <b>Co-chair: Dr. Effat Jahan</b>		
<b>Invited Talk:</b>	<i>"The importance of power systems digitalization and the role of academia in promoting digital technologies"</i> <b>Dr. Gabriela Nicoleta TANASIEV</b> Lecturer, University POLITEHNICA of Bucharest	
<b>Date</b>	<b>PID</b>	<b>Titles</b>
<b>January 8, 2023; Time: 15:20 - 17:00</b>	191	Smart System To Monitor And Control Transformer Health Condition In Sub-Station Dash, Sagor; DAS, SANJOY; BILLAH, MD.BAKI; DAS, BALARAM; Ahamed, Istiaque*; Ahmed, Abir
	199	Prospect of Hybrid Power Generation in Nijhum Dwip Utilizing Renewable Resources Miah, Md Salim*; Choudhury, Irfan Ahmed; Reza, Md. Sharon; Joha, Md. Abdullah Al; Islam, Sayeed; Islam, Dr. Md. Fokhrul
	221	Design and Implementation of a Smart Wind Turbine with Yaw Mechanism . Abhi, Subrotho Bhandari*; Hossain, Md. Ismail; Suny, Rezaul Hoque; Zahura, Fatema Tuz ; Hazari, Md. Rifat; Jahan, Effat; Mannan, Mohammad Abdul
	224	Design and Implementation of Solar PV Operated E-Power Tiller Sagor , Abidur Rahman ; Mridul, Towfiq Mahmud*; Bhuiyan, Md. Mosaraf Hosen ; Mridha, Faisal Ahmad ; Hazari, Md. Rifat; Rahman, Md. Abdur

Track: [D2P22] Robotics, Automation & Control (IV)		
Venue: DS0707		
Chair: Dr. Muhammad Firoz Mridha		
Co-chair: Dr. Md. Mahadi Hasan		
Date	PID	Titles
January 8, 2023; Time: 15:20 - 17:00	93	A Methodology for Implementing Demand Side Management in a Community Having Both Residential and Commercial Customers Islam, Md. Khairul ; Hamim, S. J.*; Dhar, Sraboni; Aziz, Tareq
	123	IoT-Based Automatic Shed System to Prevent Unwanted Rain for Growing Crops REZA, MD. SABBIR *; HOSSEN, MD IMON; Kabir, Shahriar; NILOY, KHALID MAHMUD; Afrose, Sumaiya
	188	A Smart Helmet: Ensuring Safety Of Bike Riders Riya, Jannatul Ferdous *; Chowdhury, Md. Tanvir Hossain; Usha, Sabrin Akter; Howlader, Sujan S; Ahmad, Shameem; Islam, Md. Zohurul
	208	Smart Wheelchair for COVID-19 Patients with Mobile Application Based Health Monitoring System Kabir, A. Z. M. Tahmidul*; Mizan, Al Mamun; Saha, Plabon Kumar; Sarowar, Md. Golam ; Saha, Rajat ; Ahmad, Istiak ; Zishan, Md. Saniat Rahman
	222	Design and Development of E-Waste Monitoring, Segregation and Recycling System Roy, Manas Saha ; Lusan, MD. Nazmul Islam; Khan, MD. Ahadur Rahman ; Khan, MD. Parvez ; Ahmed, Abir*; Zishan, Md. Saniat Rahman
Track: [D2P23] Computing, AI, Big Data and Networking (IV)		
Venue: DN0709		
Chair: Prof. Dr. Md. Asraf Ali		
Co-chair: Dr. Mohammad Nasir Uddin		
<b>Invited Talk:</b>	<i>"Operating model of Telecom passive infrastructures in Bangladesh and it's challenges"</i> <b>Mr. Md. Abdur Raihan</b> Director, Head of Tower Infra, Grameenphone	
Date	PID	Titles
January 8, 2023; Time: 15:20 - 17:00	89	Intelligent Software Bug Prediction: An Empirical Approach Jahangir, MD. Ariyan*; TAJWAR, MD. ABTAHI; Marma, Wathin; Islam, Siyamul
	118	ConvoWaste: An Automatic Waste Segregation Machine Using Deep Learning Nafiz, MD.Shahariar*
	139	Thermogram-based regions with convolutional neural network (RCNN) and facial biometrics for safe driving Sarkar, Sukanta*; Khayer , Tammat Bin ; Kisan , Nafish Haque ; Uddin, Dr. Mohammad Nasir
	140	Exploring High-Level Neural Networks Architectures for Efficient Spiking Neural Networks Implementation Islam, Riadul*; Majurski, Patrick; Kwon, Jun; Tummala, Sri Ranga Sai Krishna



Track: [D2P24] Selected Topics In STEM (II)		
Venue: DN0710		
Chair: DR. MD. MOZAHAR ALI		
Co-chair: Dr. M. Tanseer Ali		
<b>Invited Talk:</b>	<p><i>"How An Efficient Industry-Academy Collaboration can Empower The Whole Semiconductor Design Industry"</i></p> <p><b>Mr. Md. Ismail Hossain</b> Head, Program Management, Neural Semiconductor</p>	
Date	PID	Titles
January 8, 2023; Time: 15:20 - 17:00	83	Effect of Pressure on VTe <sub>2</sub> /NbTe <sub>2</sub> Heterostructure in Photonic Applications: A First-Principles Study Afrid, Sheikh Mohd. Ta-Seen*; Kundu, Ratul
	101	Brain tumor detection by Kapton Polyimide based On Body patch antenna in K band. Eshan, Sumit Hassan*; Hasan, Raja Rashidul; Sarker, Abdullah Al Mamun; Zabin, Sadia; Tusher, Raja Tariqul Hasan; Rahman, Md. Abdur
	143	Success History Moth Flow Optimization for Multi-Goal Generation Dispatching with Nonlinear Cost Functions ALAM, MOHAMMAD KHURSHED*; Sulaiman, Mohd Herwan; Sayem, Md. Shaoran; Ringku, Md Mahfuzer Akter ; Imtiaz, Shahriar; Khan, Rahat
	181	DESIGN AND DEVELOPMENT OF ROBO MEDICAL ASSISTANT HASAN, MD. MAHFUZ*; Shawon, Mr.Mehedi Azad ; Ray, Saikat
<b>END</b>		