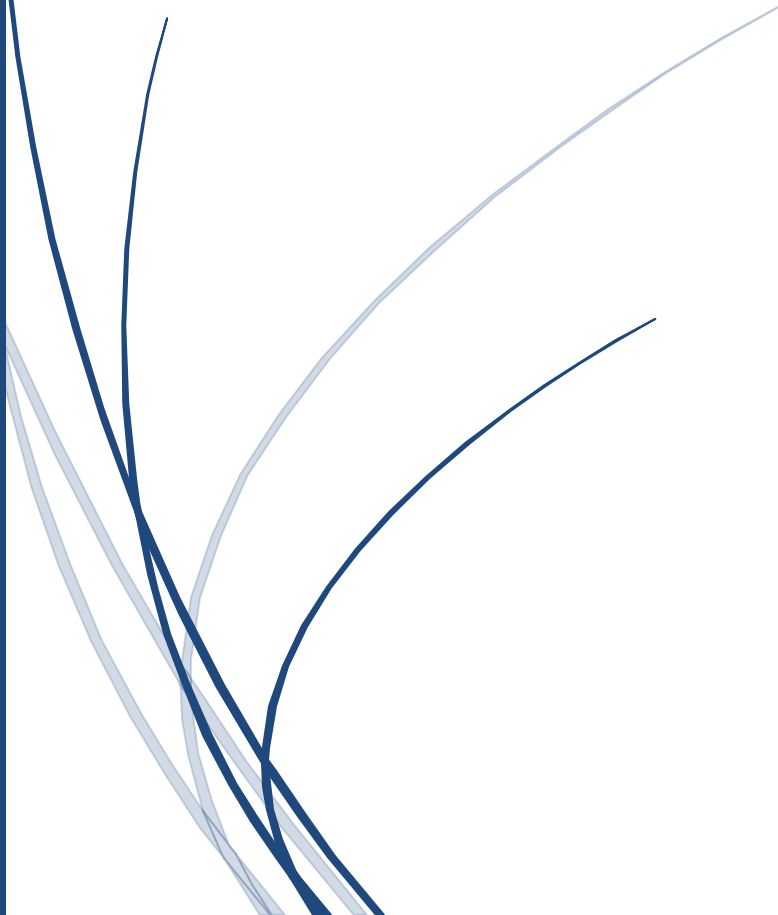


# Conference Schedule

**ICERIE 2021**

**26- 28 February, 2021**



## Conference Schedule

### Day-1

**Inaugural ceremony** Friday, 26 February, 2021  
**Zoom Link G** Time: 10:30 – 11:30 am  
**Help Line: 01738150127**

**Plenary Lecture**  
11:30 am - 12:15 pm

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<b>Lecture 1:</b> 11:30 - 12:15 pm Day 1: Friday, 26 Feb 2021 <b>Chair:</b> Prof. Dr. M. Shahidur Rahman, CSE, SUST <b>Zoom Link P</b> <b>Help Line:</b> 01712331122	<b>Fuzzy Modeling and Decision Making Applications in Engineering Science</b>  Prof. Dr. Sunny Joseph Kalayathankal, Professor and Dean of Research, Jyothi Engineering College, Cheruthuruthy, Thrissur, Kerala, India
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**Prayer & Lunch Break**  
12:15 - 02:00 pm

**Plenary Lecture**  
2:00 - 2:30 pm

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<b>Lecture 2:</b> 2:00 - 2:30pm Day 1: Friday, 26 Feb 2021 <b>Chair:</b> Prof. Dr. Mohammad Iqbal, IPE, SUST <b>Zoom Link P</b> <b>Help Line:</b> 01712331122	<b>Towards Production of Antibacterial Surfaces through Ultrashort Pulsed Laser Texturing</b>  Prof. Dr. Luca Romoli, Dipartimento di Ingegneria e Architettura, Università Degli Studi Di Parmavia Università, 12 - I 43121 Parma, Italy
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## Parallel Technical Sessions

2:30 - 4:00 pm

<b>Session I</b> Day 1: Friday, 26 Feb 2021 <b>Zoom Link A</b> <b>Help Line: 01745311342</b>	<b>Theme:</b> Architecture, Urban Design and Planning- I <b>Time:</b> 2:30 - 4:00 pm <b>Chair:</b> Prof. Dr. Md. Mustafizur Rahman, ARC, SUST
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Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 43</b>	Affordable Housing Design at Hathazari, Chattogram. <b>A. Gouala</b> , N. Banik. and <b>T. Tabassum</b>
02:45 - 03:00	<b>ICERIE 44</b>	Analyzing Spatial Pattern of Housing: A Case Study on Garo Ethnic Community in Haluaghat, Mymensingh. <b>N. Banik</b> and A. Gouala
03:00 - 03:15	<b>ICERIE 131</b>	Reimagining Urban Retail Spaces in Post-Covid 19: A Case Study of Sylhet, Bangladesh. <b>Mohammad Tanvir Hasan</b> , Mohammad Nahyan.
03:15 - 03:30	<b>ICERIE 145</b>	A Study on The Specialized Construction and Related Activities in Bangladesh. <b>Mohammad Shadman Rahman</b> and Sajib Sarkar
03:30 - 03:45	<b>ICERIE 147</b>	An Analysis of the Construction of Kutcha Houses (Dwellings and Non-Dwellings) in Bangladesh. <b>Mohammad Shadman Rahman</b> and Sajib Sarkar.

<b>Session II</b> Day 1: Friday, 26 Feb 2021 <b>Zoom Link B</b> <b>Help Line: 01713328269</b>	<b>Theme:</b> Computer Science and Engineering- I <b>Time:</b> 2:30 - 4:00 pm <b>Chair:</b> Prof. Dr. Sajjad Waheed, ICT, MBSTU <b>Co-Chair:</b> Dr. Md. Forhad Rabbi, CSE, SUST
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Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 10</b>	A Comparative Analysis of Various Cryptographic Algorithms Ensuring Secrecy and Authenticity of Exchanged Information, <b>Reajul Islam</b> , Md. Golam Rashed, Rubaiyat Yasmin and Mirza A. F. M. Rashidul Hasan
02:45 - 03:00	<b>ICERIE 29</b>	Image Processing Technique Based Fake Banknotes Detection System for Bangladesh, <b>Sharith Dhar</b> , Mohammad Tauhidul Islam and Md Abdullah Kaher Ali
03:00 - 03:15	<b>ICERIE 171</b>	Remote Patient Monitoring via Blockchain: A Systematic Literature Review, <b>Jasmin Nahar Jumi</b> and Md Forhad Rabbi
03:15 - 03:30	<b>ICERIE 67</b>	A Step towards Text Generation in Bangla Language Using Generative Adversarial Network, <b>Afia Sajeeda</b> , <b>Shahla Shaan Ahmed</b> and B M Mainul Hossain

<b>Session III</b> Day 1: Friday, 26 Feb 2021 <b>Zoom Link C</b> <b>Help Line: 01715279154</b>	<b>Theme:</b> Chemical and Petroleum Engineering- I <b>Time:</b> 2:30 - 4:00 pm <b>Chair:</b> Prof. Dr. Salatul Islam Mozumder, CEP, SUST
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Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 19</b>	Synthesis and Characterization of chitosan-poly(ethylene glycol) composite hydrogel. <b>Mohammad Osman</b> , Abdur Rahman Al-Masud, Md Anisur Rahman, Shafiul Hossain, Muhammad Zobayer Bin Mukhlis and Md. Tamez Uddin

02:45 - 03:00	<b>ICERIE 06</b>	Synthesis, properties and application of Polypyrrole Composite. Md Mostafizur Rahman, <u>Angshuman Roy</u> , Sumaia Akter Tanha and Md Shuvo Alam
03:00 - 03:15	<b>ICERIE 17</b>	Improvement of electrical conductivity of polyaniline using carbon nanofiber. <u>Diti Rani Sarker</u> , Mohammed Mastabur Rahman, Md Mostafizur Rahman and Muhammed Omar Faruk
03:15 - 03:30	<b>ICERIE 20</b>	Electrical conducting properties of polyaniline film coated indium tin oxide glass prepared by dip-coating technique. <u>Utsab Roy Ayan</u> , Mohammed Mastabur Rahman and Muhammed Omar Faruk
03:30 - 03:45	<b>ICERIE 241</b>	Advanced Strategies in Hollow Fiber Membrane Preparation for Improving Membrane Distillation Performance. L. <u>García Fernández</u> , M.C. García Payo and M. M. Khayet

<b>Session IV</b> Day 1: Friday, 26 Feb 2021 <b>Zoom Link D</b> <b>Help Line:</b> 01841857838	<b>Theme:</b> Industrial Engineering- I <b>Time:</b> 2:30 - 4:00 pm <b>Chair:</b> Prof. Dr. Md. Ariful Islam, IPE, SUST
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Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 162</b>	How Information Technology Matters for Supply Chain Management? A Systematic Literature Review. Ahmed Sayem, <u>Nayan Paul</u> and Sagor Khan
02:45 - 03:00	<b>ICERIE 38</b>	Reducing Patients Waiting Time Using the Six Sigma Methodology in a Radiology Department. <u>Mohammad Abu Sayed</u> and Mahathir Mohammad Bappy
03:00 - 03:15	<b>ICERIE 47</b>	Using Statistical Process Control Tools for Continuous Quality improvement of a Pharmaceutical Product in Bangladesh. <u>Dipika Biswas</u> , <u>Abdullah Al Rifat</u> and <u>Faysol Siddique</u>
03:15 - 03:30	<b>ICERIE 71</b>	Implementing Selected Lean Tools to Improve Efficiency in a Dyeing Unit of a Textile Factory. Md Shafiqul Islam, <u>Md Mostakinur Rahman Chowdhury</u> and Muhammad Abdus Samad
03:30 - 03:45	<b>ICERIE 81</b>	Implementation of Time Study Technique and Anova Analysis for Productivity Improvement: A Case Study on a Paint Factory in Bangladesh. <u>Aquib Irteza Reshad</u> , Afifa Sumaya and Muniom Shahriar
03:45 - 04:00	<b>ICERIE 202</b>	The Effect of Laptop Use on the Health of Selected Undergraduate Students of Shahjalal University of Science and Technology, Sylhet, Bangladesh. Mohammad Iqbal, <u>Qawsar Ali</u> , Konkon Das and Abdullah Al Nadim

### Plenary Lectures

4:00 - 5:30 pm

<b>Lecture 3:</b> 4:00 - 4:45 pm Day 1: Friday, 26 Feb 2021 <b>Chair:</b> Prof. Dr. Md. Akhtarul Islam, CEP, SUST <b>Zoom Link P</b> <b>Help Line:</b> 01712331122	<b>Advanced Polymer-based Separation Membranes with Tailored Barrier and Surface Properties</b>  Prof. Dr. Mathias Ulbricht, University of Duisburg-Essen, Germany, Lehrstuhl für Technische Chemie II, Universität Duisburg-Essen
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**Lecture 4:** 4.45 - 5.30 pm  
 Day 1: Friday, 26 Feb 2021  
**Chair:** Prof. Dr. Mushtaq Ahmed, CEE, SUST  
**Zoom Link G**  
**Help Line:** 01738150127

**Mega Projects in Infrastructure and other Sectors in Bangladesh**

Prof. Dr. M Shamim Z Bosunia, Emeritus Professor of Asia Pacific University, Former Professor and Chairman of the Department of Civil Engineering, Bangladesh University of Engineering and Technology, Dhaka

**Day-2**

**Session V**  
 Day 2: Saturday, 27 Feb 2021  
**Zoom Link A**  
**Help Line:** 01915796886

**Theme:** Environmental Engineering- I  
**Time:** 9:00 - 10:30 am  
**Chair:** Prof. Dr. Bijit Kumar Banik, CEE, SUST

Time	Paper ID	Title and Author(s)
09:00 -09:15	<b>ICERIE 90</b>	The Application of CCME-WQI for the Protection of Aquatic Life in Shari-Goyain River, Sylhet, Bangladesh. <b><u>Md. Shibir Ahmed Khan, Nandita Dutta</u></b> and Mushtaq Ahmed
09:15 -09:30	<b>ICERIE 109</b>	Temporal Change Detection of Vegetation Coverage of Rupganj Upazila Using Remote Sensing. <b><u>Md. Ashikur Rahman</u></b> , Md. Toslim Adnan Hemel, Md. Jahir Bin Alam
09:30 -09:45	<b>ICERIE 15</b>	Review and Selection of Most Effective WSUD Measures. <b><u>Chowdhury, A., Rejowan, A. E. S. and Azam, S.</u></b>
09:45 -10:00	<b>ICERIE 130</b>	Effectiveness of iron sludge decorated rice husk ash in removing As (III) from aqueous solution. Md. Alauddin, Tanvir Alom, <b><u>Mohammad Easin Chowdhury</u></b> and M.A. Hoque.
10:00 -10:15	<b>ICERIE 132</b>	Removal of Cr (VI) from aqueous environment using iron sludge decorated rice husk ash. Tanvir Alom, Md. Alauddin, A. <b><u>M. Ariful Islam</u></b> and M.A. Hoque
10:15-10:30	<b>ICERIE 136</b>	Removal of Excessive Nitrogen and Phosphorus Content from Urban Wastewater Using Local Microalgal Bloom. Md. Imran Kabir, Md. Faruque Miah, <b><u>Sumaiya Nusrat Chaitee</u></b> and Rudra Protap Biswas

**Session VI**  
 Day 2: Saturday, 27 Feb 2021  
**Zoom Link B**  
**Help Line:** 01914790276

**Theme:** Electrical, Electronics, and Communication Engineering- I  
**Time:** 9:00 - 10:30 am  
**Chair:** Prof. Dr. Mohammed Jahirul Islam, CSE, SUST

Time	Paper ID	Title and Author(s)
09:00 - 09:15	<b>ICERIE 21</b>	Energy-Aware Gateway Based Routing Protocol for Heterogeneous Wireless Sensor Networks, <b><u>Md. Muzammal Hoque</u></b> , Biplob Sarkar, M. G. Rashed, M. H. Kabir, AFM Zainul Abadin and Khadiza Tul Kubra
09:15 - 09:30	<b>ICERIE97</b>	EATSEP: Energy Aware Threshold Sensitive Stable Election Protocol for Wireless Sensor Networks, <b><u>Biplob Sarkar</u></b> , Md. Muzammal Hoque, Dipankar Das and Md. Golam Rashed

09:30 - 09:45	<b>ICERIE 27</b>	Global System for Mobile Communications (GSM) Based Embedded Automobile Engine Locking System, Sharith Dhar, Ajm Obayedullah and <b>Somen Dutta</b>
09:45 - 10:00	<b>ICERIE 172</b>	IOT based Distribution Transformer Controller using ESP32, GSM Network & Blynk Platform, <b>Shourav Sarkar</b> and Srishtee Bhattacharjee
10:00 - 10:15	<b>ICERIE 199</b>	IOT based health monitoring system in case of Older & Infectious disease in Bangladesh, <b>Irfanul Hasan</b> , Sanjoy Biswas, Enamul Hasan and Shahid Iqbal

<b>Session VII</b>	<b>Theme:</b> Chemical and Petroleum Engineering- II
Day 2: Saturday, 27 Feb 2021	<b>Time:</b> 09.00 - 10.30 am
<b>Zoom Link C</b>	<b>Chair:</b> Prof. Dr. Md. Tamez Uddin, CEP, SUST
<b>Help Line: 01715279154</b>	

Time	Paper ID	Title and Author(s)
09:00 -9:15	<b>ICERIE 170</b>	A Comparative Study on Silica Deposition on Fiber in Kraft and Organosolv Pulping Using Rice Straw as Raw materials. <b>Syed Readwan Ahmed, Kaysar Hamid, Abdullah Bin Murad</b> , Md. Shahadat Hossain and <b>Abu Yousuf</b>
09:15-9:30	<b>ICERIE 174</b>	Synthesis of Ag-TiO <sub>2</sub> nanocomposite by sol-gel method and its application in terms of industrial dye degradation. <b>Partha Pratim Nath, Anim Dutta, Md. Mustak Ahmed, Emil Ranjan Das</b> and Jahidul Hoq
09:30-9:45	<b>ICERIE 175</b>	A Comparative Study of Linear Regression and Regression Tree Algorithms to Determine Reservoir Water Saturation. Md Sifat Tanveer, <b>Rezwanul Haque Rizvi</b> , Amad Hussien, Swasty Das and <b>Md. Abu Mogira</b>
09:45-10:00	<b>ICERIE 208</b>	Numerical Investigation of Blood Cells of Reserved Freshwater Mud Eel ( <i>Monopterus couchia</i> ) in Bangladesh. <b>Tamanna Rahman</b> , Razia Sultana Chowdhury and Md Faruque Miah
10:00-10:15	<b>ICERIE 222</b>	Isolation and Growth Observation of Microalgae for Biodiesel Production. <b>Abdulla Al Masud</b> , Salma Akhter, Md. Bakiul Bashar Rony and Mezbah Uddin

<b>Session VIII</b>	<b>Theme:</b> Industrial and Manufacturing Engineering
Day 2: Saturday, 27 Feb 2021	<b>Time:</b> 9:00 - 10:30 am
<b>Zoom Link D</b>	<b>Chair:</b> Prof. Dr. A.B.M. Abdul Malek, IPE, SUST
<b>Help Line: 01841857838</b>	

Time	Paper ID	Title and Author(s)
09:00 - 09:15	<b>ICERIE 187</b>	An Exploration of Supply Chain Management Practices and Their Impact on Organizational Performance. Riyadh Mahmud, Ahmed Sayem and <b>Amit Esh Chowdhury</b>
09:15 - 09:30	<b>ICERIE 24</b>	Recyclable Waste Management of Sylhet City Corporation (Current Scenario and Remedial Action). <b>Md. Iftekhar Ahasan</b> , Mst Nasima Bagum and Prottaya Chaki
09:30 - 09:45	<b>ICERIE 40</b>	Transmissibility of COVID-19: A Compartmental Study on SAARC Countries. Mridul Sannyal, Qawsar Ali, <b>Mustofa Tanbir Kuhel</b> and Abul Mukid Mohammad Mukaddes

09:45 - 10:00	<b>ICERIE 14</b>	Grey-Taguchi Approach for Optimizing Fused Deposition Modeling Process in Terms of Mechanical Properties and Dimensional Accuracy. <b><u>Md. Asif Syed</u>, <u>Qausar Rahman</u>, <u>Hasan Md. Shahriar</u></b> and Mohammad Muhshin Aziz Khan
10:00 - 10:15	<b>ICERIE 54</b>	Performance Analysis of a particular Bank through Simulation. <b><u>Arindam Purohit</u></b> , Kazi Touhid Hasan and Chowdhury Abul Anam Rashed
10:15-10:30	<b>ICERIE 53</b>	Significance of Customer Satisfaction, Customer Loyalty, Service Quality, Service Features at Selected Banking Branch in Sylhet City. Choudhury Abul Anam Rashed, <b><u>Md. Galibur Rahman</u></b> and Md. Tanjim Alam Rahat

Plenary Lecture

10:30 – 11:15 am

<b>Lecture 5:</b> 10.30 - 11.15 am Day 2: 27 Feb 2021 <b>Chair:</b> Prof. Dr. AMM Mukaddes, IPE, SUST <b>Zoom Link P</b> <b>Help Line:</b> 01521460106	<b>Challenges in the Energy and Environmental Sectors of Bangladesh and Prospects of Renewable Energy</b>  Prof. Dr. Md. Hasanuzzaman, Higher Institution Centre of Excellence (HICoE), UM Power Energy Dedicated Advanced Centre (UMPEDAC), University of Malaya, 59990 Kuala Lumpur, Malaysia
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Parallel Technical Sessions

11:30 am - 1:00 pm

<b>Session IX</b> Day 2: Saturday, 27 Feb 2021 <b>Zoom Link A</b> <b>Help Line:</b> 01937012488	<b>Theme:</b> Transportation Engineering <b>Time:</b> 11:30 - 1:00 pm <b>Chair:</b> Prof. Dr. Md. Kamal Hossain, CE, DUET <b>Co- Chair:</b> Dr. Md. Bashirul Haque, CEE, SUST
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Time	Paper ID	Title and Author(s)
11:30 -11:45	<b>ICERIE 07</b>	Accident Analysis and Prediction of Model: A Case Study of Dhaka-Sylhet (N2) Highway. <b><u>Sheikh, M.A.</u></b> , Hasan, K., Alam, M.A., Alam, J.B.
11:45 -12:00	<b>ICERIE 123</b>	Risk Analysis and Modelling of Road Traffic Accident: A Case Study of Sylhet, Bangladesh. <b><u>Islam, M A.</u></b> , Haque, M B., Hasan M J. and Amin, M R.
12:00 -12:15	<b>ICERIE 204</b>	Estimation of Passenger Car Unit (PCU) Values for Prevailing Mixed Traffic Condition in Sylhet, Bangladesh. <b><u>Md. Aminul Islam</u></b> , Md. Bashirul Haque, Mohammad Mehedi Hassan and Mohammad Toufiqul Islam Shifat.
12:15 -12:30	<b>ICERIE 224</b>	Correlation between traffic emission & traffic volume, a case study of GEC intersection, Chittagong. M.A.Tajik, <b><u>M.T.H. Tuhin</u></b> , M.S.U. Jaman, M.A.A. Noman, and M.S. Rana

<b>Session X</b> Day 2: Saturday, 27 Feb 2021 <b>Zoom Link B</b> <b>Help Line:</b> 01914790276	<b>Theme:</b> Electrical, Electronics and Communication Engineering- II <b>Time:</b> 11:30 - 1:00 pm <b>Chair:</b> Prof. Dr. Mahmud Abdul Matin Bhuiyan, EEE, CUET <b>Co- Chair:</b> Dr. Ifte Khairul Amin, EEE, SUST
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Time	Paper ID	Title and Author(s)
11:30- 11:45	<b>ICERIE 74</b>	Modeling and Controlling an Autonomous Four Wheeled Vehicle by Using Image Processing and Deep Learning Methods. Mushahidul Islam Shamim, <b><u>Zinat Tasneem</u></b> and Mehedi Hasan Shakil

11:45- 12:00	<b>ICERIE 229</b>	Classification of Skin Lesions Using Transfer-learned CNN and Feature Concatenation. <b>Rabeya tus Sadia</b> and Md. Al Mehedi Hasan
12:00- 12:15	<b>ICERIE 167</b>	Hardware Implementation of a Neural Network on an FPGA Using Altera DE2 - 115 Development Board. <b>Mahedhi Hassan Fahim</b> , Md. Shahid Iqbal, Shourav Sarkar, Syeda Samiha Islam Esha and Homayra Aeysha
12:15- 12:30	<b>ICERIE 223</b>	ASIC Designer's Library for IC Camouflaging. <b>Md Ismail Hossain</b> and Md. Liakot Ali
12:30 -12:45	<b>ICERIE 42</b>	Reversible Watermarking using Interpolation & Histogram Shifting Technique. Susmita Ghosh and Md. Foisal Hossain

<b>Session XI</b>		<b>Theme:</b> Chemical and Petroleum Engineering- III
Day 2: Saturday, 27 Feb 2021		<b>Time:</b> 11:30 - 1:00 pm
<b>Zoom Link C</b>		<b>Chair:</b> Prof. Dr. Abu Yousuf, CEP, SUST
<b>Help Line: 01715279154</b>		
Time	Paper ID	Title and Author(s)
11:30 - 11:45	<b>ICERIE 82</b>	Fabrication of composite films consisted of silicon modified multiwall carbon nanotubes (Si-CNTs) and polystyrene (PS). Rakesh Bhowmick, Nur Uddin Ahamad, Md. Mohibul Alam, Salah Uddin Ahmed and Md Masum Talukder
11:45 - 12:00	<b>ICERIE 99</b>	Production of targeted polyhydroxyalkanoates: metabolic process and carbon source played the major role. Md Salatul Islam Mozumder and <b>Joydip Dey</b>
12:00 - 12:15	<b>ICERIE 102</b>	Enhancement of microbial community and mixed culture PHA production. <b>Joydip Dey</b> , Tridwip Sen, Santa Islam and Md Salatul Islam Mozumder
12:15 - 12:30	<b>ICERIE 103</b>	Polylactic acid blending with synthetic polymer: extend of properties improvement. <b>Sumaiya Nafis</b> , Tapasri Barua, Md Mohibul Alam and Md Salatul Islam Mozumder
12:30 - 12:45	<b>ICERIE 104</b>	Kinetic studies of Chromium adsorption onto Rice Husk and Sugarcane Bagasse. Biplob Kumar Biswas, <b>Soykot Zaman</b> , Bipul Mondal, Md. Jahangir Alam and Biplob Kumar Biswas
12:45 - 01:00	<b>ICERIE 100</b>	Evaluation of mineral medium composition in performance of denitrification. <b>Tridwip Sen</b> , Joydip Dey, Santa Islam, Shehab Shahreyar, Saiful Islam and Md Salatul Islam Mozumder

<b>Session XII</b>		<b>Theme:</b> Engineering Materials- I/ Structural Engineering- I
Day 2: Saturday, 27 Feb 2021		<b>Time:</b> 11:30 am - 01:00 pm
<b>Zoom Link D</b>		<b>Chair:</b> Dr. HMA Mahzuz, CEE, SUST
<b>Help Line: 01911089612</b>		
Time	Paper ID	Title and Author(s)
11:30 -11:45	<b>ICERIE 23</b>	Utilization of Waste in Concrete by Using Crushed Glass as Fine Aggregate and Tin-Can (Sn) as Fiber Reinforcement. Taifa Tasnim Nahin, <b>Tanvir Ahmed</b> , Sourav Ray, Mohaiminul Haque, Ayesha Ferdous Mita
11:45 -12:00	<b>ICERIE 61</b>	A Study on the Efficiency of Permeable Concrete with Polymeric Waste. <b>Abrar M. Rifat</b> , <b>Fayez Ahammad</b> and Md. Imran Kabir



12:00 -12:15	<b>ICERIE 72</b>	Effect of Nylon Fiber Aspect Ratio on the Mechanical Properties of Fiber Reinforced Concrete. <u>Nazmul Ummahat</u> , S.M. ASHIK Al Aziz and Rupak Mutsuddy
12:15 -12:30	<b>ICERIE 84</b>	Experimental and Analytical Study on Effect of Recycled Coarse Aggregate on Concrete Properties. Manik Chakraborty, <u>Sajib Sarkar</u> , Mohammad Shadman Rahman.
12:30 -12:45	<b>ICERIE 88</b>	Effect of Admixture on the Physico-mechanical Properties of Sand Cement Block. <u>Ahsan Habib</u> , Md Mostafizur Rahman, M. Shamim Akhter and M. Mastabur Rahman.
12:45 -01:00	<b>ICERIE 95</b>	Comparative Study on Mechanical Properties of Jute Fiber Reinforced Concrete Using OPC and PCC. S.M. <u>Ashik Al Aziz, Farzana M Nishat</u> and Rupak Mutsuddy

**Prayer & Lunch Break**  
01:00 — 02:00 pm

**Plenary Lecture**  
02:00 – 02:30 pm

**Lecture 6:** 02.00 - 02.30 pm  
Day 2: Saturday, 27 Feb 2021  
**Chair:** Prof. Dr. Engr. Salma Akter, CEP, SUST

**Zoom Link P**  
**Help Line:** 01711519433

**Biomass for Future: An Overview of Sources, Process and Energy Potential in Southeast Asian Countries**

Prof. Dr. Che Ku Mohammad Faizal, Dean, Faculty of Chemical and Process Engineering Technology, Universiti Malaysia Pahang, Pahang, Malaysia

### Parallel Technical Sessions

2:30 – 4:00 pm

<b>Session XIII</b>		<b>Theme:</b> Environmental Engineering - II
Day 2: Saturday, 27 Feb 2021		<b>Time:</b> 2:30 – 4:00 pm
<b>Zoom Link A</b>		<b>Chair:</b> Prof. Dr. Pijush Kanti Sarkar, IWM, SAU, Sylhet
<b>Help Line:</b> 01937012488		<b>Co-Chair:</b> Dr. Tajmunnaher, CEE, SUST
Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 34</b>	Biosorption of Heavy Metals from Industrial Wastewater using Local Blue-Green Microalgae. Md. Imran Kabir, <b>Samin Azhan Chowdhury</b> and Mashrin Khandakar.
02:45 - 03:00	<b>ICERIE 36</b>	Assessing the performance of granular media filter types for water treatment. Anupam Chowdhury and <b>Zahidul Islam</b>
03:00 - 03:15	<b>ICERIE 57</b>	An Energy Audit On an Academic Building Using a Self-Developed Simulator. <b>Bibhas B Tanmoy</b> , Islam, Mohammad Rafiqul
03:15 - 03:30	<b>ICERIE 73</b>	The challenges to resuscitate a river: a case study on pabna municipality. <b>A. A. Akkhor</b> , M.T.R. Mollah , M.R.A. Chawdhury and N. Afsari
03:30 - 03:45	<b>ICERIE 75</b>	Assessment of Water Quality Index: A Case Study of Kamaphuli River in Chitagong and Monitoring Its Health. <b>M. Z Taki</b> , A. Gouala , F. Ahmed
03:45 - 04:00	<b>ICERIE 77</b>	Heavy metal contamination in Gelidium pusillum: A human health risk assessment. Md. Solaiman Hossain, <b>Saad Al-din Sifat</b> , Eurida Liyana, Sharmin Akter, and Muhammad Zobayer Bin Mukhlis

<b>Session XIV</b>		<b>Theme:</b> Computer Science and Engineering - II
Day 2: Saturday, 27 Feb 2021		<b>Time:</b> 2:30 – 4:00 pm
<b>Zoom Link B</b>		<b>Chair:</b> Prof. Dr. M. Abdullah Al Mumin, CSE, SUST
<b>Help Line:</b> 01841857838		
Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 193</b>	Improving Joint Attention in Children with Autism: A VR-AR Enabled Game Approach, Soumik Sarker, Ali Hasan Md. Linkon, <b>Faisal Haque Bappy</b> , Md Forhad Rabbi and Md Mahadi Hasan Nahid
02:45 - 03:00	<b>ICERIE 194</b>	Explore the Impacts of Digital Technology on the Home Confined Children During COVID-19 Isolation: Is it Blessing or Curse? <b>Rumel M. Saifur Rahman Pir</b> , Md. Forhad Rabbi and M. Jahirul Islam
03:00 - 03:15	<b>ICERIE 28</b>	Vehicle Identification system by Using Automatic License Plate Recognition Technique, Sharith Dhar, Md. Raihan Chowdhury and <b>Md. Azim Khan</b>
03:15 - 03:30	<b>ICERIE 33</b>	Smart Interrogation System: Computer Vision Approach, <b>Partha Pratim Debnath</b> , Md. Golam Rashed and Dipankar Das
03:30 - 03:45	<b>ICERIE 149</b>	Corona Virus Disease 2019 (COVID-19): Prediction Strategy Using Sequential Deep Learning Model, <b>Amit Shaha Surja</b> , Md. Omor Faruk and Md. Shahid Iqbal
03:45 - 04:00	<b>ICERIE 125</b>	Dimension Reduction Using Supervised LDA and Unsupervised PCA and 3D CNN for Classification of Hyperspectral Image, <b>Tasmia Jannat</b> and Abu Sayeed

**Session XV**  
 Day 2: Saturday, 27 Feb 2021  
**Zoom Link C**  
**Help Line: 01715279154**

**Theme:** Food Engineering and Nutritional Science  
**Time:** 2:30 - 4:00 pm  
**Chair:** Prof. Dr. Md. Mozammel Hoque, FET, SUST

Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 05</b>	Effect of drying condition on physicochemical and antioxidant content of dried Moringa leaf powder. <b>Keya Rani Roy</b> , Abdur Razzak, Wahidu Zzaman, Mominul Hoque and Suvro Talukdar
02:45 - 03:00	<b>ICERIE 70</b>	Effect of Pre-Treatment and Drying Temperature on Drying Kinetics and Quality Characteristics of Mango Peel powder. <b>Zarin Tasnim Arpa</b> , Nushrat Jahan Tisha, Sadia Sattar, Pabitra Chandra Das and Md. Sajjad Hossain
03:00 - 03:15	<b>ICERIE 190</b>	Study on the Effect of Drying Temperature Combined with Pre-treatment to Improve Physicochemical and Nutritional Quality of Pineapple ( <i>Ananas comosus</i> ). <b>Rahul Biswas</b> , <b>Wahidu Zzaman</b> and <b>Mohammad Afzal Hossain</b>
03:15 - 03:30	<b>ICERIE 237</b>	Impact of sonication and thermal processing on the antioxidant activities and microbial inactivation of pineapple juice. <b>Mominul Hoque</b> , Suvro Talukder, Keya Roy, Mohammad Hossain and Wahidu Zzaman
03:30 - 03:45	<b>ICERIE 238</b>	Biosynthesis of ZnO nano-particle and its quality evaluation on the shelf life extension of fruit. <b>Farzana Yasmin</b> , Soaib Nur, Shafaet Ahmed and Wahidu Zzaman

**Session XVI**  
 Day 2: Saturday, 27 Feb 2021  
**Zoom Link D**  
**Help Line: 01837363289**

**Theme:** Mechanical Engineering  
**Time:** 2:30 - 4:00 pm  
**Chair:** Prof. Dr. M. Mahmood Hasan, IPE, SUST

Time	Paper ID	Title and Author(s)
02:30 - 02:45	<b>ICERIE 85</b>	Variation of fuel efficiency of a light vehicle based on alignment, speed and braking method. <b>Riton Kumar Das</b> , Md. Abu Mowazzem Hossain and Md. Tazul Islam
02:45 - 03:00	<b>ICERIE 108</b>	Design and Fabrication of Portable Cold Storage to Evaluate Self-Life of Tomato. <b>Sadiqur Rahman</b> , Muhammad Rashed Al Mamun and Md. Anwar Hossen
03:00 - 03:15	<b>ICERIE 117</b>	A Review on Condition Monitoring of Automobile IC Engine Through Used Oil Analysis. Md. Emdadul Hoque, MimMashrur Ahmed and <b>Anisur Rahman</b>
03:15 - 03:30	<b>ICERIE 159</b>	Implementation of PLC Controlled Automated Guided Vehicle (AGV): Perspective of Bangladesh. <b>Md Aminul Islam</b> , Md Shahid Iqbal and Amit ShahaSurja
03:30 - 03:45	<b>ICERIE 232</b>	Solar irradiance measurement in Sylhet and Performance evaluation of photovoltaic (PV) modules in outdoor conditions. Muhammad Mahamood Hasan, <b>Md. Ibnul Alam Talukder</b>
03:45 - 04:00	<b>ICERIE 48</b>	Company Readiness towards Green Manufacturing – A Case Study in Readymade Garments Sector of Bangladesh. <b>Moon Roy</b> , Mst. Nasima Bagum and SatyenMazumder

## Plenary Lectures

04:00 – 05:00 pm

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<b>Lecture 7:</b> 04.00 - 04.30 pm Day 2: Saturday, 27 Feb 2021 <b>Chair:</b> Prof. Dr. M. Mastabur Rahman, CEP, SUST <b>Zoom Link P</b> <b>Help Line:</b> 01711519433	<b>Surface Modified Composite Flat Sheet, Hollow Fibre and Nano-fibrous Membranes for Membrane Distillation Technology</b>  Prof. Dr. Mohamed Khayet, Department of Structure of Matter, Thermal Physics and Electronics, University Complutense of Madrid, Spain
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<b>Lecture 8:</b> 04.30 - 05.00 pm Day 2: Saturday, 27 Feb 2021 <b>Chair:</b> Prof. Dr. Jahir Bin Alam, CEE, SUST <b>Zoom Link G</b> <b>Help Line:</b> 01738150127	<b>Nanotechnology and Sustainability in Developing Multifunctional Concrete</b>  Dr. Tanvir S. Qureshi, Civil Engineering, Department of Geography and Environmental Management, University of the West England (UWE-Bristol), UK
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## Poster Session

2:30 - 03:30 pm

<b>Poster Session</b> Day 2: Saturday, 27 Feb 2021 <b>Zoom Link F</b> <b>Help Line: 01521460106</b>	<b>Time:</b> 2:30 - 03:30 pm <b>Chair:</b> Prof. Dr. Md. Abu Hayat Mithu, IPE, SUST
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Poster ID	Title and Author (s)
ICERIE-Poster-301	A Comparative Study on Silica Deposition on Fiber in Kraft and Organosolv Pulping Using Rice Straw as Raw materials. Syed R. Ahmed, Kaysar Hamid, Abdullah B. Murad, Md. S. Hossain, Abu Yousuf
ICERIE-Poster-302	Recycled reverse osmosis membranes for forward osmosis technology. J. Contreras-Martínez, M.C. Garcia-Payo, M. Khayet
ICERIE-Poster-303	Properties and controlled drug release of nanoparticles mixed matrix chitosan membranes. Alia Baroudi, Carmen García-Payo, Mohamed Khayet
ICERIE-Poster-304	Recycled Reverse Osmosis discarded Modules as Membrane supports for Membrane Distillation Technology. J. Contreras-Martínez, E. G. Merino, M.C. Garcia-Payo, M. Khayet
ICERIE-Poster-305	Advanced Strategies in Hollow Fiber Membrane Preparation for Improving Membrane Distillation Performance. L. García-Fernández, M.C. García-Payo, M. Khayet
ICERIE-Poster-306	Change Detection of NDVI Using Remote Sensing and GIS in Hakaluki

<b>ICERIE-Poster-307</b>	Haor Area. Prianka Das, Muktarun Islam Strengthening of concrete cylinder using various Stainless Steel Wire Mesh. Md. Raihan, S.M. Towhidul Islam, Juhra Siddika Munni, Mushtaq Ahmed
<b>ICERIE-Poster-308</b>	Modeling Topic Specific Credibility in Online Social Media based on Structural and Attribute Properties. Md. Habibur Rahman, Tabia Tanzin Prama and Md Musfique Anwar
<b>ICERIE-Poster-309</b>	Genome-Wide Characterization Deciphers Distinct Properties of Major Intrinsic Proteins in Six Phytophthora Species. Topu Raihan, Jahed Ahmed, Al Hakim, Mahbub Hasan, Asraful Alum, Mahmudul Hasan and A.K. Azad
<b>ICERIE-Poster-310</b>	Utilization of Residual Biomass in Agro-industrial and Municipal Solid Wastes for Production of Industrially Important Enzymes and Microbial Lipids. Nafisa Chowdhury, Asma Taslim, Topu Raihan, Tanvir Hossain, Al Hakim, Jahed Ahmed and A.K. Azad

### Day 3

#### Plenary Lecture

09:00 – 09:30 am

<b>Lecture 9:</b> 9.00 - 09.30 am Day 3: Sunday, 28 Feb 2021 <b>Chair:</b> Prof. Dr. M. Reza Selim, CSE, SUST <b>Zoom Link P</b> <b>Help Line:</b> 01711519433	<b>Recent Trends in Advanced Converter Control for Wind Energy Conversion System</b>  Prof Dr. Mohammad Nasir Uddin, Lakehead University, Thunder Bay, Canada
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#### Parallel Technical Sessions

9:30 - 11:00 am

<b>Session XVII</b> Day 3: Sunday, 28 Feb 2021 <b>Zoom Link A</b> <b>Help Line:</b> 01937012488		<b>Theme:</b> Architecture, Urban Design and Planning- II <b>Time:</b> 9:30 - 11:00 am <b>Chair:</b> Prof. Dr. Qazi Azizul Mowla, ARC, BUET <b>Co-Chair:</b> Arc. Iftekhar Rahman, ARC, SUST
Time	Paper ID	Title and Author(s)
09:00 -9:15	<b>ICERIE 158</b>	Interpreting Heritage Values of Tea Cultural Landscape: A Case Study on Khakiachara Tea Garden, Sreemangal. <b>Sadiya Afrin Mazumder</b> , Kawshik Saha
09:15-09:30	<b>ICERIE 212</b>	Jaali in Islamic Architecture: An Integration of Geometry into Ornamentation. <b>Alam, H.</b> and <b>Tasnim, S.T.</b>
09:30 - 09:45	<b>ICERIE 233</b>	A Comparative Study of Traditional Architectural Elements Between Bangladesh and World Architecture. <b>Zannatul Salsabil</b> , <b>Asif M Noeem</b>
09:45 - 10:00	<b>ICERIE 63</b>	Study on Green Building, its Rating System and Life Cycle Assessment of Existing Buildings: A Case Study. Md. Mohsin Uddin Molla, Mushtaq Ahmed, Iftekhar Rahman and <b>Md. Al-amin Sheikh</b>
10:00 - 10:15	<b>ICERIE 126</b>	Urban Sprawl Modelling Based on Time-Series Analysis: GIS Based Approach. Md. Aminul Islam, Md. Bashirul Haque, <b>Shaikh Shafin Sarwath</b> and <b>Shuva Ranjan Paul</b>

10:15 - 10:30 **ICERIE 92** Process Analysis and the Sustainable Urban Revitalization Model – An Illustration. **Md. Mustafizur Rahman**

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<b>Session XVIII</b>		<b>Theme:</b> Food and Agriculture
Day 3: Sunday, 28 Feb 2021		<b>Time:</b> 9:30 - 11:00 am
<b>Zoom Link B</b>		<b>Chair:</b> Prof. Dr. Iftekhar Ahmad, FET, SUST
<b>Help Line:</b> 01713328269		
Time	Paper ID	Title and Author(s)
09:30 - 09:45	<b>ICERIE 113</b>	Evaluation of Red Amaranth Productivity by Integration of Vertical Floating Bed in Low Land Areas. <b><u>Sadia Ashrofi Fairuz</u></b> , Muhammad Rashed Al Mamun and Asif Al Razi Nabil
09:45 - 10:00	<b>ICERIE 114</b>	Production of Biogas from Vegetable and Fruit Waste with Rumen Digesta by Anaerobic Digestion Process. <b><u>Anika Tasnim</u></b> , Muhammad Rashed Al Mamun and Md Anwar Hossen
10:00 - 10:15	<b>ICERIE 119</b>	Investigation of Growth, Yield and Nutrient Content of <i>Pleurotus ostreatus</i> in Vertical Farm Based on Different Lighting Conditions. <b><u>Ishita Deb</u></b> , Muhammad Rashed Al Mamun and Tahsina Hridoy
10:15 - 10:30	<b>ICERIE 144</b>	Evaluation of Prilled Urea Applicator Performance at Different Time Conditions after Rice Transplanting. <b><u>Kamrun Naher</u></b> , Muhammad Rashed Al Mamun and Mizanur Rahman

<b>Session XIX</b>		<b>Theme:</b> Chemical and Petroleum Engineering - III
Day 3: Sunday, 28 Feb 2021		<b>Time:</b> 9:30 - 11:00 am
<b>Zoom Link C</b>		<b>Chair:</b> Prof. Dr. Zakir Hossain, CEP, SUST
<b>Help Line:</b> 01837363289		
Time	Paper ID	Title and Author(s)
09:30 - 09:45	<b>ICERIE 106</b>	Enhancement of lipid production from algae and its characterization using UV-spectrophotometer. <b><u>S. M. Hasan Shahriar Rahat</u></b> , Roni Basak and Md Salatul Islam Mozumder
09:45 - 10:00	<b>ICERIE 127</b>	Fabrication of Cellulose-Metal Oxide Composite and Studying Its Antimicrobial Activity. Nur Uddin Ahamad, <b><u>Mahi Ahmad</u></b> and Muhammad Raek Zaman
10:00 - 10:15	<b>ICERIE 166</b>	Synthesis of visible light activated heterojunction RuO <sub>2</sub> /BiVO <sub>4</sub> nanoparticles for the photocatalytic degradation of organic pollutants. <b><u>Arnob Dipta Saha</u></b> , Muhammad Zobayer Bin Mukhlish, Shafiul Hossain, Md. Anisur Rahman, Md. Akhtarul Islam and Md Tamez Uddin
10:15 - 10:30	<b>ICERIE 168</b>	Heterostucture CeO <sub>2</sub> /TiO <sub>2</sub> nanocomposite synthesized by solid-state method for enhanced photocatalytic degradation of organic pollutants. Md Tamez Uddin, <b><u>Md. Amirul Islam</u></b> , Muhammad Zobayer Bin Mukhlish, Md. Anisur Rahman, Shafiul Hossain and <b><u>Md Akhtarul Islam</u></b>
10:30 - 10:45	<b>ICERIE 230</b>	Exploring Nanoscale Gold Film on Optical Fiber Using Atomic Force Microscope. <b><u>Nur Ahamad</u></b> , Md. Al-Amin and <b><u>Anatoli Ianoul</u></b>

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<b>Session XX</b>	<b>Theme:</b> Environmental Engineering- III
Day 3: Sunday, 28 Feb 2021	<b>Time:</b> 9:30 - 11:00 am
<b>Zoom Link D</b>	<b>Chair:</b> Prof. Dr. Md. Niamul Bari, RUET
<b>Help Line:</b> 01521112270	<b>Co- Chair:</b> Shilpy Rani Basak

Time	Paper ID	Title and Author(s)
09:30 - 09:45	<b>ICERIE 141</b>	Renewable Energy in Residential Building to Increase Sustainability. <b><u>Maful Khan</u></b> , Shourav Sarkar and Abu Sakib Mozumder
09:45 - 10:00	<b>ICERIE 148</b>	Metal Biosorption from Industrial Wastewater using Local Blue-Green Microalgae. Md. Imran Kabir, <b><u>Foujia Nawshin Prity</u></b> and Nirjhar Deb
10:00 - 10:15	<b>ICERIE 156</b>	Synthesis of Activated Carbon from Locally Available Rice Husk for Treating Saline Drinking Water. Ayesha Ferdous Mita, <b><u>Nusrat Jahan Ekra</u></b> and Bijit Kumar Banik.
10:15 - 10:30	<b>ICERIE 157</b>	Salinity Removal from Synthetic Drinking Water Using Activated Carbon and Modified Laterite Soil. <b><u>Nusrat Jahan Ekra</u></b> , Ayesha Ferdous Mita and Bijit Kumar Banik
10:30 - 10:45	<b>ICERIE 174</b>	Synthesis of Ag-TiO <sub>2</sub> nanocomposite by sol-gel method and its application in terms of industrial wastewater treatment. <b><u>Partha Pratim Nath</u></b> , <b><u>Anim Dutta</u></b> , <b><u>Md. Mustak Ahmed</u></b> , <b><u>Emil Ranjan Das</u></b> and Jahidul Hoq
10:45 - 11:00	<b>ICERIE 181</b>	Estimation of Quality in Surma River Using Digital Image Data. Syeda <b><u>Zehan Farzana</u></b> , <b><u>Md. Oliur Rahman</u></b> and <b><u>Md. Imdadul Islam</u></b>

### Plenary Lecture

11:00 – 11:30 am

<b>Lecture 10:</b> 11.00 - 11.30 am	<b>Enhanced Thermal Conductivity of Nanocomposites using Carbon-based Fillers</b>
Day 3: Sunday, 28 Feb 2021	
<b>Chair:</b> Prof. Dr. M. Zainal Abedin, CEP, SUST	Prof. Dr. Sung-Ryong Kim, Dean, College of Engineering, Korea National University of Transportation, Republic of Korea
<b>Co-Chair:</b> Dr. M. Mostafizur Rahman, CEP, SUST	
<b>Zoom Link P</b>	
<b>Help Line:</b> 01712331122	

### Parallel Technical Sessions

11:30 am- 01:00 pm

<b>Session XXI</b>	<b>Theme:</b> Engineering Materials- II/ Structural Engineering- II	
Day 3: Sunday, 28 Feb 2021	<b>Time:</b> 11:30 - 01:00 pm	
<b>Zoom Link A</b>	<b>Chair:</b> Prof. Dr. Md. Jahangir Alam, CE, CUET	
<b>Help Line:</b> 01915796886	<b>Co- Chair:</b> Dr. Ahmed Hasan Nury	
Time	Paper ID	Title and Author(s)
11:30 - 11:45	<b>ICERIE 118</b>	Nano-engineered construction materials for advanced infrastructure. <b><u>Qureshi, T.</u></b> , Paul, S.C., Narneni, S., and Panesar, D.
11:45 - 12:00	<b>ICERIE 124</b>	Development of Brick by Utilization of Wood Saw Dust and Processed Tea Waste. <b><u>Fahmida Munim Ani</u></b> , Md. Mahmudul Hasan Chowdhury, Fahmida Ishaque and Md. Altaf Hossain.
12:00 - 12:15	<b>ICERIE 133</b>	Comparison between Recycled and Normal Concrete in terms of workability and Compressive Strength. <b><u>Arif Hoosain</u></b> , Md. Rakib Hossain and Md. Rakibul Alam
12:15 - 12:30	<b>ICERIE 184</b>	Effect of Size and Shape of Test Specimens on Mechanical Strength of



		Concrete. <b>S. Rahman</b> , M. M. Islam, Z. Karim, K. M. Hasan, M. N. Ajim, M. A. Bhuyan and T. Barua.
12:30 - 12:45	<b>ICERIE 186</b>	Effects of Granulated Blast Furnace Slag and Fly Ash on Concrete Compressive Strength. S. Rahman, M. R. Uddin, <b>M. M. Alam</b> , M. T. Chowdhury and S. A. Mohamed
12:45 - 01:00	<b>ICERIE 235</b>	Flow Behavior Past Two Side-By-Side Circular Cylinders at Re 100. <b>Haque M. N.</b>

<b>Session XXII</b>	<b>Theme:</b> Electronic, Electrical and Communication Engineering- III
Day 3: Sunday, 28 Feb 2021	<b>Time:</b> 11:30 am – 1:00 pm
<b>Zoom Link B</b>	<b>Chair:</b> Prof. M. Masum, CSE, SUST
<b>Help Line:</b> 01937012488	

Time	Paper ID	Title and Author(s)
11:30 - 11:45	<b>ICERIE 112</b>	Outline to Lowering Transmission Loss of Metamaterial based Hollow Core Fiber for Guiding IR Light, Jannatul Ambia Akhi, <b>Md Rejvi Kaysir</b> and Md Jahirul Islam
11:45 - 12:00	<b>ICERIE 116</b>	Power Factor Improvement of IEEE 14 Bus Network and Voltage Sag Mitigation of a Power System by Using STATCOM, <b>Md Abdur Rahman</b> , Ashikur Rahman, Monowar Wadud Hridoy and Md. Shamsul Arifin
12:00 - 12:15	<b>ICERIE 135</b>	Design of a Solar plug-in hybrid electric vehicle with Regenerative Braking and Boost Control, Ifte Khairul Amin, <b>Md. Ariful Haque</b> and Sajib Baishnob
12:15 - 12:30	<b>ICERIE 138</b>	Stabilization of Weak Electric Grid using Renewable Energy Source with Droop Controller, Ifte Khairul Amin, <b>Sourav Pal</b> and Suranjit Shuvra Dhar
12:30 - 12:45	<b>ICERIE 139</b>	A Modified Cost Function for PJM 5 Bus System Using Genetic Algorithm, <b>Md. Golam Murtuza</b> , A.K.M Abdur Rahman and Nur Muhammad
12:45 - 01:00	<b>ICERIE 161</b>	Sensitivity analysis of capillary optical fiber-based pressure sensors, <b>Billal Hossain</b> , <b>Md Rejvi Kaysir</b> and Md Jahirul Islam

<b>Session XXIII</b>	<b>Theme:</b> Water Resources- I
Day 3: Sunday, 28 Feb 2021	<b>Time:</b> 11:30 am- 1:00 pm
<b>Zoom Link C</b>	<b>Chair:</b> Prof. Dr. Md. Aatur Rahman, WRE, BUET
<b>Help Line:</b> 01837363289	<b>Co- Chair:</b> Golam Md. Munna, CEE, SUST

Time	Paper ID	Title and Author(s)
11:30 - 11:45	<b>ICERIE 197</b>	Irrigation Practices Under Boro Rice Cultivation in Haor Areas of Sunamganj District. Chakraborty, D., <b>Sarkar, P.K.</b> , and Kashem, M.A.
11:45 - 12:00	<b>ICERIE 203</b>	Drought assessment in the coastal region of Bangladesh using grid data. Sheikh Hefzul Bari, <b>Muhtasim Ahmed Tanvir</b> and Nazratun Naiema
12:00 - 12:15	<b>ICERIE 206</b>	Numerical Analysis Of Seepage Through Different Filter Media For Earth Dam Using Fem. <b>Shah Alam</b> , Md. Mahmud Sazzad
12:15 - 12:30	<b>ICERIE 216</b>	A Study On Groundwater Status and Recharge Pattern in Sylhet Region. Quddus, M.A. and <b>Sarkar, P.K.</b>
12:30 - 12:45	<b>ICERIE 227</b>	Drainage Water Management System, a Study on Condition of Canals in Chittagong. M.M. Rahman, M.K. Islam <b>M.A. Tajik</b> , M.T.H. Tuhin, and A. Akter



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**Session XXIV**                      **Theme:** Environmental Engineering- IV  
Day 3: Sunday, 28 Feb 2021      **Time:** 11.30 am - 01.00 pm  
**Zoom Link D**                      **Chair:** Prof. Dr. M. Azizul Hoque, CEE, SUST  
**Help Line:** 01841857838

Time	Paper ID	Title and Author(s)
11:30 - 11:45	<b>ICERIE 205</b>	Covid-19: Lack of coronavirus wastes management- an upcoming threat for the megacity Dhaka. Abdullah-Al-Hasib, <b>Debo Brata Paul Argha</b>
11:45 - 12:00	<b>ICERIE 211</b>	A comparative study on the variation of air quality index of Dhaka city before and after the nationwide lockdown due to COVID-19. <b>Debo Brata Paul Argha</b> , Abdullah-Al-Hasib and Md. Mostafizur Rahman
12:00 - 12:15	<b>ICERIE 213</b>	An Analysis of Existing Medical Waste Management and Possible Health Hazards in Jhenaidah Municipality. <b>Tanvir Ahmed Khan</b> , Debo Brata Paul Argha, Maria Shirin Anita
12:15 - 12:30	<b>ICERIE 221</b>	Investigate the effect of electrode materials and initial pH of electrolyte on the performance of Microbial Fuel Cell. <b>M. A. Halim</b> and M. O. Rahman
12:30 - 12:45	<b>ICERIE 226</b>	Assessment of salinity content in Halda River. M.S.I. Rakib, I.Z. Putul, <b>M.T.H. Tuhin</b> , M.A. Tajik and M.F.R. Zuthi

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**Prayer & Lunch Break**  
**01:00 — 02:00 pm**

**Parallel Technical Sessions**  
02:00 – 03:30 pm

**Session XXV**                      **Theme:** Structural Engineering- III  
Day 3: Sunday, 28 Feb 2021      **Time:** 02:00 – 03:30 pm  
**Zoom Link A**                      **Chair:** Prof. Dr. Md. Saiful Islam, CE, CUET  
**Help Line:** 01915796886      **Co-Chair:** Dr. HMA Mahzuz

Time	Paper ID	Title and Author(s)
02:00 - 02:15	<b>ICERIE 128</b>	Effectiveness of welded and trussed reinforcement in strength increment of concrete beams. H.M.A. Mahzuz, Mushtaq Ahmed, <b>Rashadul Hasan</b> , Md. Maksudul Islam
02:15 - 02:30	<b>ICERIE 129</b>	An Experimental Study on Torsional Strength of Concrete Beams. H.M.A. Mahzuz, Mushtaq Ahmed, <b>Shariful Islam</b> , Md. Ashraf Ullah
02:30 - 02:45	<b>ICERIE 152</b>	Determination of Efficiency of different patterns of stiffeners using Ansys. <b>Mohaimin-ul-Islam</b> , H.M.A. Mahzuz, Md. RafiulIslam, Riyadul Islam
02:45 - 03:00	<b>ICERIE 155</b>	Mechanism of CFRP strengthening of aluminum tubular cross-sections under end bearing concentrated loading. <b>S. M. Z. Islam</b> B. Ahmed, S. Alam, T. Ahmed and J. D. Roy S. S. Shamim, H. I. Tusher.
03:00 - 03:15	<b>ICERIE 169</b>	Assessment of Crisis Factors in the Construction Industry of Dhaka

03:15 – 3:30 **ICERIE 201**

City in Bangladesh. Shuvo Dip Datta, Maria Binte Mannan, **Md. Nazrul Islam**, Md. Habibur Rahman Sobuz  
Building Defects in the Northeastern Region of Bangladesh: A Case Study. **Islam, M. M.**, Islam, M. S. and Mushtaq Ahmed

<b>Session XXVI</b> Day 3: Sunday, 28 Feb 2021 <b>Zoom Link B</b> <b>Help Line: 01837363289</b>	<b>Theme:</b> Geotechnical Engineering/ Earthquake Engineering- I <b>Time:</b> 02.00 - 03.30 pm <b>Chair:</b> Prof. Dr. M. Shahidur Rahman, CEE, SUST <b>Co-Chair:</b> Dr. Shriful Islam, CEE, SUST	
Time	Paper ID	Title and Author(s)
02:00 - 02:15	<b>ICERIE 115</b>	Lateral Load Carrying Capacity of Pile Group Configuration in Sandy Soil. <b>Md. Imran Islam Rabbi</b>
02:15 - 02:30	<b>ICERIE 163</b>	Comparison Between Isolated Folded Footing and Flat Footing. <b>Sajib Sarkar</b> , Mirza Addaito Billah
02:30 - 02:45	<b>ICERIE 231</b>	Evaluation of compressive strength behavior of natural and artificial fiber reinforced clay soils: A statistical model. <b>Md. Assaduzzaman</b> , Sibbir Ahemed and Mohammed Atiqul Hasan
02:45 - 03:00	<b>ICERIE 107</b>	Preliminary Assessment of Earthquake Vulnerability of RC Buildings by Japanese Index Method. <b>Md. Rakib Hossain</b> , Md. Rakibul Alam and Mushtaq Ahmed.
03:00 - 03:15	<b>ICERIE 140</b>	Pushover Analysis of Ten-Storied RC Buildings with Different Slabs Systems with and without Shear Walls under Lateral Loads. Mohammad Rafiqul Islam, <b>Abbas Ali</b> , Monirul Dewan, Kamrul Hasan Shovon.
03:15 – 3:30	<b>ICERIE 188</b>	Seismic and Wind Load Analysis of Existing Multistoried Buildings of Different Heights. <b>S. Rahman</b> , S. A. Hossain, R. Ahmed, M. H. Rahman, M. A. Hossen and J. Islam

<b>Session XXVII</b> Day 3: Sunday, 28 Feb 2021 <b>Zoom Link C</b> <b>Help Line: 01521460106</b>	<b>Theme:</b> Chemical and Petroleum Engineering- III <b>Time:</b> 02.00 - 03.30 pm <b>Chair:</b> Prof. Dr. Md. Saiful Alam, PME, SUST	
Time	Paper ID	Title and Author(s)
02:00 - 02:15	<b>ICERIE 210</b>	An Analytical Review on the future of the Oil Sector of Bangladesh. <b>Fawzia Binta Faruque</b> and Nahid Hasan Nayem
02:15 - 02:30	<b>ICERIE 22</b>	Rheological Model Identification of High Viscous Bentonite Water-Based Drilling Fluid Prepared with Iron (III) Oxide Nanoparticles. <b>Nayem Ahmed</b> , Md. Saiful Alam and M. A. Salam
02:30 - 02:45	<b>ICERIE 30</b>	Development and Validation of a Modified Material Balance Equation for a Fractured Gas Reservoir Mohammad Mamun Ur Rashid and <b>M. Enamul Hossain</b>
02:45 - 03:00	<b>ICERIE 142</b>	Hydraulic Flow Unit Determination of Kailashtilla Gas Field Using Wireline Log Data and Core Data. <b>Md. Mizanur Rahman</b> and Mohammad Tamim

<b>Session XXVIII</b>		<b>Theme:</b> Earthquake Engineering- II/ Structural Engineering- IV
Day 3: Sunday, 28 Feb 2021		<b>Time:</b> 02.00 - 03.30 pm
<b>Zoom Link D</b>		<b>Chair:</b> Prof. Dr. Md. Moinul Islam, CE, CUET
<b>Help Line:</b> 01711519433		<b>Co-Chair:</b> Dr. Md. Bashirul Haque, CEE, SUST
Time	Paper ID	Title and Author(s)
02:00 - 02:15	<b>ICERIE 11</b>	Effective Placement of Fluid Viscous Damper in Irregular Shaped Reinforced Concrete Buildings. Mushtaq Ahmed, <b><u>Nirob Ahmed</u></b> and Nawshin Haque
02:15 - 02:30	<b>ICERIE 25</b>	Seismic Analysis of Modified Dual System of Eccentrically Braced Frame - Shear Wall: Direct Displacement Based Method. Mushtaq Ahmed, <b><u>Julker Nayen Rafi</u></b> and Mohammad Dellwer Hossain.
02:30 - 02:45	<b>ICERIE 51</b>	Development of Pushover curve and relative comparison of Reinforced Concrete frame structures & Shear wall structures. <b><u>Emon Kalyan Das</u></b> , Rupak Mutsuddy
02:45 - 03:00	<b>ICERIE 86</b>	Use of Turkish Method of Seismic Vulnerability Assessment and Time History Analysis for Architectural and Structural Modification of RCC Building after Designing. <b><u>Md. Kawsar Ahmed Shobuj</u></b> , Tusher Mojumdar and Mushtaq Ahmed
03:00 - 03:15	<b>ICERIE 89</b>	Structural Performance Analysis of RC Bridges: Case Studies for Seismic Zone 3 of Bangladesh. <b><u>Md. Azimul Islam</u></b> , Khaledur Rahman, Mushtaq Ahmed and <b><u>Sumaiya Jarin Ahammed</u></b>
03:15 - 3:30	<b>ICERIE 98</b>	Seismic Vulnerability Assessment of RC Buildings in Sylhet City Using Fuzzy Logic. <b><u>Mohammad Abdullah</u></b> , Md Sadek Hussain and Mushtaq Ahmed

<b>Session XXIX</b>		<b>Theme:</b> Water Resources-II
Day 3: Sunday, 28 Feb 2021		<b>Time:</b> 02:00 – 03:30 pm
<b>Zoom Link E</b>		<b>Chair:</b> Prof. Dr. Misbah Uddin, CEE, SUST
<b>Help Line:</b> 01722443733		
Time	Paper ID	Title and Author(s)
02:00 - 02:15	<b>ICERIE 55</b>	Assessment of bank Line Shifting of Jamuna River by Using Integrated Technique of Remote Sensing and GIS. <b><u>Bijoy Chondo Jony</u></b> , Shilpy Rani Basak, and Gazi Md. Riasat Amin
02:15 - 02:30	<b>ICERIE 68</b>	Optimal Discharge Monitoring Network Design for the Surma River Based on Information Theory. <b><u>Sarah Fatema Tabassum</u></b> , <b><u>Afiya Saiara</u></b> and Bijit Kumar Banik
02:30 - 02:45	<b>ICERIE 91</b>	Prospects of MAR application at the water stressed Barind area, North West of Bangladesh. Md. Iqbal Hossaina, <b><u>Md. Niamul Bari</u></b> and Shafi Uddin Miah
02:45 - 03:00	<b>ICERIE 137</b>	Change Detection of NDVI Using Remote Sensing and GIS in Hakaluki Haor Area. <b><u>Prianka Das</u></b> and Muktarun Islam
03:00 - 03:15	<b>ICERIE 143</b>	Riverbank Erosion Assessment of Sandha River and Identification the Human Induced Key Factor by Using GIS and Remote Sensing Method. <b><u>Md. Muzahidul Islam</u></b>
03:15 – 3:30	<b>ICERIE 160</b>	Prediction of Rainfall using Machine Learning Algorithms for Different Districts of Meghalaya. <b><u>Shabbir Ahmed Osmani</u></b> , Foysool Mahmud, and Md. Abu Zafor

Closing ceremony

Zoom Link G

Help Line: 01937012488

Sunday, 28 February, 2021

Time: 03:30 – 05:00 pm



is where the heart is.