

REGISTRATION & RECEPTION

Day 1 (October 12, 2023)	Time: 08:30–10:00	Venue: CE Building
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INAUGURAL CEREMONY OF ICPACE 2023

Day 1 (October 12, 2023)	Time: 10:00–11:15	Venue: RUET Auditorium
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Chair: Prof. Dr. Md. Niamul Bari, Dean, Faculty of Civil Engineering, RUET

REFRESHMENT

Day 1 (October 12, 2023)	Time: 11:15–11:45	Venue: RUET Auditorium
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KEYNOTE SESSION-01

Day 1 (October 12, 2023)	Time: 11:45–13:15	Venue: RUET Auditorium
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Session Chair: Prof. Dr. Quazi Hamidul Bari, Department of Civil Engineering, KUET

Time	Paper ID	Title	Authors
11:45-12:15	Keynote-01	Conversion of Biomass into Bioenergy for a Sustainable Circular Bioeconomy: Potential Solution to the Environmental Issues	M. Z. Alam Professor, Department of Chemical Engineering and Sustainability, IIUM, Malaysia
12:15-12:45	Keynote-02	Implications of incoming sediment management in the Ganges-Brahmaputra-Meghna System in Bangladesh	M. M. Rahman Professor, Institute of Water and Flood Management, BUET
12:45-13:15	Keynote-06	Concrete: A Man-Made Versatile Composite	M. S. Z. Basunia Emeritus Professor, Department of Civil Engineering, University of Asia Pacific (UAP), Bangladesh

PRAYER & LUNCH BREAK

Day 1 (October 12, 2023)	Time: 13:15–14:15	Place: CE 2203
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TECHNICAL SESSION-01

Day 1 (October 12, 2023)

Time: 14:15–15:45

Room No.: CE 2201

Session Chair: Prof. Dr. Tarif Uddin Ahmed, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
14:15-14:25	CE 0109	A Comparative Study of BNBC 2006 and BNBC 2020 on the Cost Impact and Lateral Loads of the RC Frame Structure	M. R. Raju, Md. F. Haque, M. Ahamed, I. T. Hossain
14:25-14:35	CE 0151	Analysis of Earthquake Readiness, Damage Scenarios, and Pre-and Post-Preventive Measure Techniques: A Comprehensive Review of Dhaka City	Sanjida Sharmin, Md. Jubair Jakaria, Md. Asaduzzaman, Mehedi Hasan
14:35-14:45	CE 0152	A Statistical Pattern Recognition for Structural Health Monitoring Using Vibration Signals	Nazmuz Sakib, Shohel Rana, Shafkat Bin Jafar
15:00-15:10	CE 0157	Use of Recycled Glass Powder and Mill Scale as Partial Replacement of Cement and Fine Aggregate for Sustainable Concrete Practice	Jannatun Nesa, Md. Akramuzzaman Sojib, Shafayet Ahmed, Md Moinuddin, Joya Dev
15:10-15:20	CE 0267	A Review on the Applicability of Iron Slag in Different Forms for Concrete Production	Habiba Rashid, Amit Nath, Souvik Sikder, S. M. Ashfaque Hoq
15:20-15:30	CE 0344	Utilization of Ultra High Performance Fiber Reinforced Concrete (UHPFRC) in Bridge Decks- A review	N. J. Monica, A. Mim, M. H. Khatun, S. Saha, A. H. M. Adyeel, K. S. Shahnaz
15:30-15:40	CE 0368	Jute Composite and Geotextiles- a Greener Building Solution	Md. Khalid Hasan, Mofizul Islam, Nur Shadia, Md. Azizul Islam Khan, Md. Mahbube Alam

PRAYER & TEA BREAK

Day 1 (October 12, 2023)

Time: 15:45–16:15

Place: CE 2203

TECHNICAL SESSION-02

Day 1 (October 12, 2023)

Time: 14:15–15:45

Room No.: CE 2202

Session Chair: Prof. Dr. Syed Abdul Mofiz, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
14:15-14:25	CE 0122	Investigating the slope stability of three hillocks along with their geotechnical properties	Nur Md. Robiul Hoque, Shriful Islam, Junaidul Islam, Khairul Hasan, Shaharat Hossain Sarita, Ishrat Jahan Rumana
14:25-14:35	CE 0136	Dynamic Behavior of Flexible Pavement Under Moving Wheel Load	Samsun Nahar, Dr. Md. Abu Sayeed
14:35-14:45	CE 0153	Dynamic Analysis of Ballastless Railway Track	S.M. Khaled Morshed, M. A. Sayeed
15:00-15:10	CE 0224	Finite Element Analysis of an Embankment over soft ground: A case of a Trial Embankment	M. Sadiq, T. Alam, M. Rokonzaman
15:10-15:20	CE 0278	Introducing Glass Powder and Brick Dust as Mineral Filler to Evaluate different properties of Bituminous specimen by Marshall Method of Mix Design	Riaz Uddin Ahmed, Nokibul Alam Chowdhury, Monirul Islam
15:20-15:30	CE 0337	An Evaluation of How Pedestrians Perceive About Street Vendors Occupying Public Sidewalks: An Empirical Study in Rajshahi City Corporation	Shenjida Arefin, Jannatul Tasnuva, Rifa Tasfia Rabbi
15:30-15:40	CE 0366	Improvement of Shear Strength Properties of Organic Soil Using Sand Column	Raihad Farin Mahi, Istiak Ibn Nur, Md. Morshedul Alam Rafi, A S M Fahad Hossain

TECHNICAL SESSION-03

Day 1 (October 12, 2023)

Time: 14:15–15:45

Room No.: CE Meeting Room

Session Chair: Prof. Dr. Quazi Hamidul Bari, Department of Civil Engineering, KUET

Time	Paper ID	Title	Authors
14:15-14:25	CE 0183	The Development of comparison, evolution, and correlation between 2D and 3D studies of morphological parameters of sand particles through image-based analysis of X-Ray CT data of sand particles	Md. Mahmud Hasan, Dr. Md. Ferdous Alam
14:25-14:35	CE 0194	Comparison of Noise and Air Pollution at Recreational Places in Rajshahi, Pabna, Natore, and Sirajganj Districts	S. H. Akash, M. Sakir, M. A. Dayan, M. M. Rahman
14:35-14:45	CE 0355	Assessment of Reuse Potential of Grey Water using On-site Treatment Processes	Sharifatun Nessa, Md. Samiul Ahsan, Sheikh Mokhlesur Rahman
15:00-15:10	CE 0404	Assessing the Performance of Bio-Coagulant and Traditional Alum Coagulants in Surface Water Treatment Process	Md. Shakhawath Alam, Sk. Md. Imdadul Islam
15:10-15:20	CE 0422	Batch study for removal of Mn ²⁺ from synthetic wastewater by using natural adsorbent	Md. Zohrul Islam, Md. Zahanggir Alam

TECHNICAL SESSION-04

Day 1 (October 12, 2023)

Time: 14:15–15:45

Room No.: CE 2403

Session Chair: Prof. Dr. Md. Munsur Rahman, Institute of Water and Flood Management, BUET

Time	Paper ID	Title	Authors
14:15-14:25	CE 0207	An Assessment on Availability of Water Supply System in the Rajshahi City Corporation Area	Nazmun Naher Chaitee, Samiha Alam, Asadullah Al Momin, Zihad Hossain
14:25-14:35	CE 0280	A Case Study of Rahmatkhali Riverbank Erosion: Comparison Among Riparian Management, Coir Logs and Geo Bags	Muhtasim Haque Nahian, Saima Sara, Musabbir Turjo, Md. Azmain Raman, Farhan Mashuk
14:35-14:45	CE 0282	A Review on Sustainable River Training Strategies in Bangladesh	Shammi Afrin Chadni, Md Ajwad Anwar, Asif Mahmud, Tasnuva Tabassum Atosi
15:00-15:10	CE 0287	Assessment of Spatio- Temporal changes of Beel Area in Rajshahi District using Multi-Temporal Satellite Images	Mitu Rani Das, Md. Mostafa Ali
15:10-15:20	CE 0318	Effect of Minor Groin on the Downstream Groin Area	Md. Toukir Ali, Dr. Mohammed Alauddin, Md. Jahangir Alam, Md. Sabbir Hossain, Dr. Md. Monowar Hossain
15:20-15:30	CE 0325	Study of diminishing trend of surface water sources using Remote Sensing	Md. Kamruzzaman, M. Humaira
15:30-15:40	CE 0423	Machine Learning-based Groundwater Level modeling in the Northwest region of Bangladesh: A review	Md. Abu Saleh, H. M. Rasel

TECHNICAL SESSION-05

Day 1 (October 12, 2023)

Time: 14:15–15:45

Room No.: CE 2301

Session Chair: Dr. Md. Mostafizur Rahman, Assistant Professor, URP, RUET

Time	Paper ID	Title	Authors
14:15-14:25	URP 0139	Exploring the Economic Condition of the Blacksmiths and the Possibility of Emergence of Blacksmithing	MD. Toufiq Hossain, Sazzad Al Toufiq Shuvo, Shams Nur Islam Badhon, Mst. Antika Marjiya, Md Abdul Wakil, Anutosh Das
14:25-14:35	URP 0140	Problems and Potentials of Rural Growth Center: A Case Study of Baneshwar Bazar in Rajshahi, Bangladesh	Sazzad Al Toufiq Shuvo, MD. Toufiq Hossain, Antika Marjiya, Huzaifa Ibne Shakir, Dr. Md Abdul Wakil, Dulal Sarker
14:35-14:45	URP 0142	Designing & Revitalizing Hashem Nagar Residential Area: Strategies for Creating Vibrant and Sustainable Neighborhood	Md. Zillur Rahman Sharker, Sajib Sarker
15:00-15:10	URP 0145	Analyzing the Potentiality of The Farmers of Rajshahi to Tackle Famine Threat	Amrina Binte Salim, Sadia Sultana Disha, H.M Hasibur Rahman, Sambit Sami Sammo, Anutosh Das, Sumita Roy
15:10-15:20	URP 0146	Brick Field Development Dynamics and Its Effect on Agriculture and Wetland in Narayangonj Sadar Upazilla	Nabanita Sarker, Dr.Anisha Noori Kakon
15:20-15:30	URP 0148	Public Participation in the Formulation of DMDP: A Procedural Framework	Md Shoaib Chowdhury
15:30-15:40	CE 0309	Potentiality for Removal of Heavy Metal from Groundwater Using Natural Adsorbents	A. Chowdhury, M. Rahnuma

TECHNICAL SESSION-06

Day 1 (October 12, 2023)

Time: 14:15–15:45

Room No.: CE 2302

Session Chair: Prof. Dr. Md. Kamruzzaman, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
14:15-14:25	CE 0204	Detailed Engineering Assessment of Concrete Structures Using Cost Effective Inspection Techniques for Re-Strengthening	M. Mohshin, S. N. Rudra, M. M. Riyadh, M. Abrar
14:25-14:35	CE 0329	Earned Value Analysis of an Under-Construction Bridge in Dhaka City	Pushpita Debnath, Mafruha Binte Shamim, Mehedi Hasan
14:35-14:45	CE 0372	Effect of Ferrocement Confinement on RC Columns under Axial Compression and Improvement	Md. Touhidul Islam, Dr. Ahsanul Kabir
15:00-15:10	CE 0376	Comparative Study on Properties of Self-Compacting Concrete Made with Recycled Aggregate	Failina Edib, Zarin Tasnim, NHM Kamrujjaman Serker
15:10-15:20	CE 0381	Comparison of Tubular System and Conventional System Building	Dewan Monayam Ali, Md. Samiul Islam Shohag, NHM Kamrujjaman Serker
15:20-15:30	CE 0399	Development of Suspended Sediment Rating Curve for the Feni River	M. M. I. Mohir, M. S. Mondal, R. Sultana
15:30-15:40	CE 0164	A Review on the Effects of Styrofoam Beads in Concrete Block	Naomi Nafisa Rahman, Moriom Akter, Himadri Shekhar Sarker, Sk. Rakibul Islam

TECHNICAL SESSION-07

Day 1 (October 12, 2023)

Time: 16:15–17:45

Room No.: CE 2201

Session Chair: Prof. Dr. Ismail Saifullah, Department of Civil Engineering, KUET

Time	Paper ID	Title	Authors
16:15-16:25	ARCH 0136	Vision for a Vertical Campus, Rethinking the Public Universities of Bangladesh.	Khandaker Sadikur Rahman, Maliha Rahman, Md. Raihan Khan
16:25-16:35	ARCH 0158	Urban Infill Development Potential: An Approach towards Future Urban Recovery Model (The Case Study of Kuril, Dhaka)	Anika Amzad Rachi, Sefat Sultana
16:35-16:45	ARCH 0103	Understanding the Ambivalence of Urban Waterscape in Bangladesh	Nafiza Yasmin Rahman, Abbasi Khanm
17:00-17:10	ARCH 0131	The Transition from Old to New Residential Neighborhoods: The Case of Rajshahi	Sheikh Hameem
17:10-17:20	BECM 0108	Thermal Comfort in Buildings: Evaluating PMV Index and ANN Model for Prediction	M.I. Ahmmed, F. Abdullah
17:20-17:30	BECM 0112	Unveiling BEEER: A Novel Green Building Rating System's Potential in Bangladesh and its Global Synergy with Sustainability Frameworks	Magub Mostafa, MD. Imtiaz Ahmmed, Oaisul Mostofa Karim
17:30-17:40	ARCH 0151	Assessing the Impact of Highrise Building as Landmark on Adjoining Urban Fabric in Oxygen Area	Mahbuba Afroz Samia, Anika Amzad Rachi

PRAYER & TEA BREAK

Day 1 (October 12, 2023)

Time: 17:45–18:15

Place: CE 2203

TECHNICAL SESSION-08

Day 1 (October 12, 2023)

Time: 16:15–17:45

Room No.: CE 2202

Session Chair: Prof. Dr. Md. Abdul Alim, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
16:15-16:25	CE 0125	Investigating the Correlation between Traffic and Noise Pollution at Varying Distances during Rush and Non-Rush Hours in Dhaka City	Umme Saima Zanzabil, Md. Ramjan Ali, Al Amin, Md. Merajul Islam, Md. Rezaul Islam
16:25-16:35	CE 0197	A Study on Traffic Management and Engineering Approaches to Reduce Road Accidents in Dhaka City	Tahmina Rahman, Bijon Roy, Samia Anjum
16:35-16:45	CE 0220	Assessment of Perceived Service Quality of Launch Services in Dhaka-Barishal Route	Tanzim Rashid, Hasan Al Banna, Md. Wazkuruni, Niaz Ahmed, Shakil Mohammad Rifaat
17:00-17:10	CE 0317	Effect of Wood Dust on the Shrinkage Behavior of Laboratory Constituted Soil for Use in Cricket Pitch	Tariq Mahmud, Mofizul Islam, Nur Shadia
17:10-17:20	CE 0332	Study on Shear Strength Properties of Reinforced Soil under TC and TE Stress Path Tests	S. A. Mofiz, N. Sharmin
17:20-17:30	CE 0386	Mode Choice Modeling of University Students in Dhaka: A Case Study on BUET	Tanjila Rashid Rhythy, Afia Ibnat Subah, Dr. M. Neaz Murshed
17:30-17:40	CE 0439	Traffic Congestion Control at Intersection of Chattogram City using Channelization & Signaling System- A Case Study	Sheikh Hayath Mahmud, Tarek Kaisher Tusher

TECHNICAL SESSION-09

Day 1 (October 12, 2023)

Time: 16:15–17:45

Room No.: CE Meeting Room

Session Chair: Dr. Md. Zahangir Alam, Associate Professor, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
16:15-16:25	CE 0114	Performance Evaluation of a Simple Ceramic Filter (SCF) Combined with Roughing Filter for Pond Water Treatment	M. A. Amin, J. Ferdous, M. M. Rahman
16:25-16:35	CE 0296	Performance Evaluation of an Effluent Treatment Plant for Pharmaceutical Effluent with Different Treatment Mechanisms	Md. Tarekh Rasul, Nayan Chandra Das, Md. Rayhan Ahamed, Md. Sazzad Hossain, Md. Monem Rahman Bhuiyan
16:35-16:45	CE 0307	Performance of a Laboratory Scale Iron Removal System for RUET	A. Chowdhury, M. N. R. A. Sheikh, C. B. Das, A.S.M.Z. Hasan
17:10-17:20	CE 0418	A Study on Marine Plastic Debris from Local Ship in Mongla Port Area	S. Roksana, Q.H. Bari, I.M. Rafizul, M. Hossain, E. Kraft, T. Haupt, M. Rahman
17:20-17:30	CE 0419	Spatial Analysis of Salinity and Sulphate Distribution in Brick Masonry: Implications for Structural Integrity and Preservation	Sajedul Kabir, Quazi Hamidul Bari
17:30-17:40	CE 0435	Potential of Jute Products as a Substitute for Plastic in Bangladesh from Life Cycle Perspective	F. Khan, M. H. Masum, M. F. R. Zuthi, A. Hoque, E. Kraft, K. M. Hassan, T. T. Jarin, I. Lange, N. Sultana

TECHNICAL SESSION-10

Day 1 (October 12, 2023)

Time: 16:15–17:45

Room No.: CE 2403

Session Chair: Prof. Dr. H. M. Rasel, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
16:15-16:25	CE 0117	Spatiotemporal Changes of Channel Morphology of Gorai - Madhumati River Using Multi-Temporal Satellite Images	Md Shihab Uddin, Indronil Sarkar, Md Tawfiqur Raihan
16:25-16:35	CE 0171	Assessment of Annual and Seasonal Climate Change Impact in Rajshahi District of Bangladesh using SDSM	M. M. Rana, S. K. Adhikary, H. Nath, A. El-Shafie
16:35-16:45	CE 0245	Development of Rainwater Harvesting System for Residential Building of Water Crisis Area of Jurain	Ashfia Alam Arshe, Manzima Rahman Nowfi, Sumaia Hossain, Md Ajwad Anwar
17:00-17:10	CE 0247	Prediction of Class-A and Class-C of a trial Embankment over soft organic peaty ground	Mahabub Sadiq, Imtiaz Mahmud, Rokibul Hossain Titu
17:10-17:20	CE 0331	Study On Electricity Generation by Water Wheel in Micro Hydro Power Plant	M. Fahmida*, R. Sen, A. H. Korban, M. N. Haque, M. A. Haque, S. Robin, and N. C. Roy
17:20-17:30	CE 0327	Towards Sustainable Building Operations: Integrating Automated Controls and Smart Technology	Ashraf-Uz-Zaman, Md. Jakir Hossain, Umma Salma

TECHNICAL SESSION-11

Day 1 (October 12, 2023)

Time: 16:15–17:45

Room No.: CE 2301

Session Chair: Prof. Dr. Bipul Chandra Mondal, Department of Civil Engineering, CUET

Time	Paper ID	Title	Authors
16:15-16:25	CE 0190	Effect of Geopolymer Contents on Strength Development of Soft Soils	M. H. Nabi, S. Acharjee, M. M. Banu, M. A. Rahman
16:25-16:35	CE 0172	A Case Study on Parking Scenario in Shopping Centers at Dhaka	Joy Podder, Umme Tahmina Toma, Imon Hasan Bhuiyan, Md. Fazle Rabbi, Tanjun Ashrabi Ridoy, Rayhana Sultana
16:35-16:45	CE 0297	Comparison of Traffic Flow Characteristics and Environmental Impacts Between a Cross Intersection and a Roundabout Intersection: A VISSIM Simulation-based Approach	Ifratul Hoque, Adeeba Naz
17:00-17:10	CE 0144	Soil Erosion Assessment in Rangamati District: Comparing Hydrological Conditions & Geospatial Data Before & After the 2017 Landslide Event	Himel Moulik, Mahin Saleh, Antara Paul Bonna, Tamjidul Islam Illin
17:10-17:20	CE 0302	Establishing Correlation of Different Failure Parameters for Driven Pile in Silty Clay Soil Using All Pile Software	H. H. Shuvo, S. H. Nidul, M. H. Aushi
17:20-17:30	CE 0312	Numerical Study of the Improved Tuned Liquid Damper Using ABAQUS	Dr. Syed Abdul Mofiz, Arnab Bhattacharjee,
17:30-17:40	CE 0363	Effect of Tunnel Shape on the Deformation Behavior of a Tunnel Using FLAC3D	Dr. Md. Mahmud Sazzad, Shantonu Hore Joti, Md. Mahfuzur Rahman

TECHNICAL SESSION-12

Day 1 (October 12, 2023)

Time: 16:15–17:45

Room No.: CE 2302

Session Chair: Prof. Dr. Basir Zisan, Department of Civil Engineering, CUET

Time	Paper ID	Title	Authors
16:15-16:25	BECEM 0105	The Importance of Sustainable Construction Materials and the Challenges Facing Their Widespread Adoption from the Consumers' Point of View	M.I. Ahmmed, M.Rubayet , M.Hasan, M.S. Ishtiaq , S.B. Rafiq , A.K.Shuvo
16:25-16:35	BECEM 0110	Quality Assessment of Coarse Aggregates Subjected to Multiple Times Recycling	M. Roknuzzaman, M. S. Rahman, M. Kisku, M. A. Asef, M. M. Islam
16:35-16:45	BECEM 0113	The Application of PERT and CPM Method in Building Construction Industry to Organize all the Project's Schedule Systematically: A Review Paper	Margub Mostafa
17:00-17:10	BECEM 0129	Recent Improvements in Sustainable Architecture and Building Materials for Climate Resilient Infrastructure: A Review	Syeda Nur Un Nahar Zahra, Sk Md Imdadul Islam
17:10-17:20	ARCH 0132	The impact of post covid-19 economic crisis on rental housing affordability in Rajshahi: A residual income based analysis	Sheikh Hameem
17:20-17:30	ARCH 0164	Riverfront Development and Community Engagement: A Case Study of the Urban River Spaces Project in Jhenaidah	Sabbir Ahmed
17:30-17:40	ARCH 0167	The Spatio-Economy of 'Being' for Ecological-Restoration and Sustainable Tourism-Planning: A Case of Nijhum-Dwip (silent- island), Bangladesh	Fadia Binte Shahidullah, and Apurba Kumar Podder

TECHNICAL SESSION-13

Day 1 (October 12, 2023)

Time: 18:15–19:30

Room No.: CE 2201

Session Chair: Prof. Dr. Md. Robiul Awall, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
18:15-18:25	CE 0208	Rheological, Hardened, and Non-destructive Characteristics of Supplementary Cementitious Materials for The Production of Self-Compacting Concrete	Arpa Paul, Md. Habibur Rahman Sobuz
18:25-18:35	CE 0214	Mechanical and non-destructive Characteristics of Over-Burnt Brick Aggregate for the Production of Structural Concrete	Zinia Sultana Koma, Dr. Md. Habibur Rahman Sobuz, Shakil Talukder
18:35-18:45	CE 0248	Utilization of Textile Effluent Treatment Plant Sludge as Supplementary Cementitious Material in Concrete	Md. Mottakin, Md. Mehrab Hossain, Shuvo Dip Datta
19:00-19:10	CE 0319	Lateral Load Bearing Capacity Assessment of RC Buildings with Varying Column Shapes	M. Chakrabarty, L. C. Roy, M. R. Rahman, S. Saha
19:20-19:30	CE 0383	Performance of Concrete Using Waste Glass Powder as a Partial Replacement of Cement under Saline Condition	Md. Khaliqul Bari, Ismail Saifullah, Md. Abir Hossain, Abdullag Al Taharat
19:30-19:40	CE 0427	Exploring the Relationship between Wood Density and Janka Hardness: An Experimental Approach	Md. Sohel Rana, Ariful Islam, Miraz Ahamed, Tarif Uddin Ahmed

TECHNICAL SESSION-14

Day 1 (October 12, 2023)

Time: 18:15–19:30

Room No.: CE 2202

Session Chair: Prof. Dr. Md. Mahmud Sazzad, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
18:15-18:25	CE 0108	Present Scenario of Existing Intersection of Rajshahi City Corporation Area, Rajshahi, Bangladesh	A. S. Jisan, S. M. M. Daniel, M. M. Rahman
18:25-18:35	CE 0112	Road Safety and Traffic Regulation Awareness among Road Users of Baraigram Upazila, Natore	A. Diganta, M. M. Rahman
19:00-19:10	CE 0288	Assessment of Soil Characteristics and Contamination Status Due to Leachate Migration from Open Dumping Site in Chattogram City, Bangladesh	A. Ghosh, M. H Masum, M. I. Uddin
19:10-19:20	CE 0413	An Empirical Study on Service Quality Assessment of Railway Transit: Rajshahi Railway Station as the Case	M. R. Khan, S. A. Tisa, Q. Hamidul Bari
19:20-19:30	CE 0426	Influence of Underground Pipeline on Response of Subgrade Soil in Flexible Pavement	Atika Hossain Akhi, Md. Sohel Rana
19:30-19:40	CE 0436	Influences of the hill geometry and geotechnical properties on the landslide susceptibility- A case study	B. C. Mondal, M. H. Masum, R. K. Sutradhar

TECHNICAL SESSION-15

Day 1 (October 12, 2023)

Time: 18:15–19:30

Room No.: CE Meeting Room

Session Chair: Prof. Dr. Abu Sufian Md. Zia Hasan, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
18:15-18:25	ARCH 0110	Future Agri+Culture: Architectural conceptualization of modular vertical farming and its integration into the urban area	Chowdhury A. M. Siddique Shuvra, Md. Raihan Khan, Rifat Bin Firoz
18:25-18:35	ARCH 0126	Impact of Ship Breaking and Recycling Industry on the Coastal Area of Bangladesh	Tanveer Ahamed Bin Ali Naser, Maisha Ashrafi
18:35-18:45	ARCH 0144	Pond-centric Urbanism in Rajshahi	Md Mashuk Ul Alam
19:00-19:10	ARCH 0146	Integration of historical building for medium-sized expanding city: lessons from Khulna	S. A. Tisa, Md. R. khan
19:10-19:20	ARCH 0147	Portrait of A Duplex Housing by Architect Muzharul Islam and Its Standpoint in Contemporary Perspective	Mohammad Tahajibul Hossain, Sheikh Muhammad Rezwan, Md. Nahid Iqbal
19:20-19:30	ARCH 0150	Potential Uses of Local Material “Jute” in Interiors	Tahmid Ahmed Nakib
19:30-19:40	ARCH 0170	Generate Passive Breathable Urban Facades for Interior Thermal Comfort in Tropical Climate Guided by Traditional Facades	Tasnova Iqbal, Imamur Hossain, Meherun Nesa Boby

TECHNICAL SESSION-16

Day 1 (October 12, 2023)

Time: 18:15–19:30

Room No.: CE 2403

Session Chair: Dr. Bulbul Ahmed, Assistant Professor, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
18:15-18:25	CE 0130	CFRP Strengthening of Structurally Deficient Mild Steel, Stainless Steel and Aluminum Tubular Short Columns under Axial Compressive Loads	S. M. Z. Islam, T. H. Rezvi, A. M. Noman, F. N. Choya, S. Tasnim, M. R. Hasan
18:25-18:35	CE 0155	Compressive Stress-Strain Characteristics of Brick Masonry Used in Bangladesh	M. A. Habib, N. Sharif, K. A. Manjur and M. M. Hoque
18:35-18:45	CE 0198	Effects of Supplementary Cementitious Materials on the Fresh and Hardened Properties of High-Strength Self-Compacting Concrete	Fahim Shahriyar Aditto, Md. Habibur Rahman Sobuz, Jannat Ara Jabin
19:00-19:10	CE 0216	Seismic Analysis of Asymmetry Multi-Storied Structures Using Dynamic Analysis Method in Bangladesh	Zeba Fariha, M A Bashar Bhuiyan, Redwan-Ul-Islam
19:10-19:20	CE 0259	Applicability of Steel Fiber and Recycled Stone in Compressive Strength Development of M30 Concrete	Md. Rejoan Chowdhury, Md. Ehasan Kabir
19:20-19:30	CE 0385	Influence of Recycled Concrete Aggregates in Addition with Ceramic Dust on Strength Properties of Concrete	M. Hasan, D. Mojumder, R. A. Abir
19:30-19:40	CE 0431	A Comparative Study Between Fly Ash and Silica Fume to Increase Strength of Recycled Concrete Aggregates- A Literature Review	Mehedi Hasan, Nishat Jahan, Faria Jahan Tania

TECHNICAL SESSION-17

Day 1 (October 12, 2023)

Time: 18:15–19:30

Room No.: CE 2301

Session Chair: Prof. Dr. Md. Abu Sayeed, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
18:15-18:25	CE 0103	Impact of Traffic Congestion in Roundabout: A study on Gazipur Chowrasta	Md Sifat Bin Siraj, Most. Farjana, Motachim Billah, Mahadi Hasan, Md. Tahatul Azid
18:25-18:35	CE 0123	Paratransit Safety Evaluation Using Poisson Regression: A Case Study Based on Driver Perception	Md Sifat Bin Siraj, Most. Farjana, Md. Chana Ullah
18:35-18:45	CE 0141	A Comparative Study on Capacity and Traffic Performance of Unsignalized Intersections in Khulna Metropolitan City	Mahin Abdullah, Quazi Sazzad Hossain, Mohei Menul Islam, Samsuddin Ahmed
19:00-19:10	CE 0169	Improving Traffic Operations at Two Closely-Spaced Intersections on Begum Rokeya Avenue Near the Pallabi Metro Station in Dhaka City	Md Shoaib Chowdhury, Fahad Chowdhury, Md. Samin Yasar, Mahin Abdullah Abbasi, Syed Washiqun Nabi
19:10-19:20	CE 0173	Artificial Neural Network Model for Passenger Car Equivalent of Bus	Md. Ariful Islam, Quazi Sazzad Hossain, Samsuddin Ahmed, Mohei Menul Islam
19:20-19:30	CE 0425	Laboratory Investigation of Fracture Resistance of uPVC Pipes	M.B. Ali, F. Ahmed, A. H. Akhi

TECHNICAL SESSION-18

Day 1 (October 12, 2023)

Time: 18:15–19:30

Room No.: CE 2302

Session Chair: Prof. Dr. Md. Shafiqul Islam, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
18:15-18:25	CE 0139	Investigating Structural Behavior of High-Rise Building under Lateral Loads in Bangladesh: A Comparative Study of BNBC 2006 and BNBC 2020	Sazzad Bin Bashir Polock, Md. Ariful Islam, Safat Nahin, Dr. Ahsanul Kabir
18:25-18:35	CE 0159	Fiber Reinforced Concrete: A Critical Review on Material Properties and Applications	Mehedi Hasan, Md. Sofiullah Shihab, Moriam Emran Mridula
18:35-18:45	CE 0200	Hardened and Microstructural Characteristics of a Biochar-Cement Mortar Composite	Mahmudur Hossain Khan, Md. Habibur Rahman Sobuz, Md. Kawsarul Islam Kabbo
19:00-19:10	CE 0232	Influences of Pozzolanic Materials on the Rheological and Hardened Properties of High-Strength Concrete	Jannat Ara Jabin, Md. Tareq Hossain Khondoker, Fahim Shahriyar Aditto
19:10-19:20	CE 0246	Influence of Burnt Type on the Compressive Strength and Initial Rate of Absorption Behavior of Locally Available Bricks	K. A. Manjur, M. A. Habib, and M. M. Hoque
19:20-19:30	CE 0326	Fire Hazard Risk Assessment and Remedial Measures of Anderkilla Ward in Chattogram City, Bangladesh	M. N. H. Rahi, M. N. Hossain, MB Islam, M. Hanif, S. Ahamed
19:30-19:40	CE 0380	Exploring the Potential of Jute Fiber Reinforcement in Concrete for Enhanced Strength and Durability.	Md. Shah Newaz Aftab Chayon, Mim Islam.

KEYNOTE SESSION-02

Day 2 (October 13, 2023)

Time: 08:30–10:30

Venue: CE 2403

Session Chair: Prof. Dr. Md. Zahangir Alam, Department of Chemical Engineering and Sustainability, IIUM, Malaysia

Time	Paper ID	Title	Authors
08:30-09:30	Keynote-04	Transformation of Cities to SMART Cities towards Bangladesh Vision 2041	M. J. Alam Professor and Honorable Vice-Chancellor, RUET
09:30-10:00	Keynote-03	Challenges and Strategies for Sustainable Operation and Maintenance of Water Supply and Sanitation Infrastructure in Bangladesh	M. H. Rahman ¹ , A. Ahmed ² ¹ Professor, Department of Civil Engineering, BUET ² Project Manager, ITN Centre, BUET
10:00-10:30	Keynote-05	Design and Construction of Pavement: Introduction of New Approaches in Roads and Highways Department	A.S.M. Elias Shah Additional Chief Engineer, Roads and Highways Department, Bangladesh

Short Break for Refreshment

Day 2 (October 13, 2023)

Time: 10:30–10:45

Place: CE 2203

TECHNICAL SESSION-19

Day 2 (October 13, 2023)

Time: 10:45–12:15

Room No.: CE 2201

Session Chair: Prof. Dr. Md. Akhtar Hossain, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
10:45-10:55	CE 0161	A Study on Traffic Congestion in Major Points of Dinajpur City under Mixed Traffic Flow	M. S. Ahmed, S. Mansur, N. C. Roy
10:55-11:05	CE 0203	Load-Displacement and Load Transfer Mechanisms of Pile Foundation Using AllPile Software	M. Mohshin, M. Abrar, Abiduzzaman, S. N. Rudra, M. M. Riyadh
11:05-11:15	CE 0249	Liquefaction Analysis of Bridge Foundation in Kurigram	Rokibul Hossain Titu, Mahabub Sadiq, Imtiaz Mahmud
11:30-11:40	CE 0279	Application of Plastic-Coated Aggregate (PCA) in the construction of flexible pavement in an eco-friendly way	M. M. Islam, M. E. Hossain
11:40-11:50	CE 0310	Prediction of Bearing Capacity of Pile Using Machine Learning Approach	M. M. H. Galib, M. M. Billah, S. A. Mofiz
11:50-12:00	CE 0387	Three-dimensional numerical modelling of ballastless railway track-subgrade system to simulate the dynamic response under high-speed train moving loads	M. R. Farhan, M. A. Sayeed
12:00-12:10	CE 0435	Potential of Jute Products as a Substitute for Plastic in Bangladesh from Life Cycle Perspective	F. Khan, M. H. Masum, M. F. R. Zuthi, A. Hoque, E. Kraft, K. M. Hassan, T. T. Jarin, I. Lange, N. Sultana

PRAYER & LUNCH BREAK

Day 2 (October 13, 2023)

Time: 12:15–14:00

Place: CE 2203

TECHNICAL SESSION-20

Day 2 (October 13, 2023)

Time: 10:45–12:15

Room No.: CE 2202

Session Chair: Prof. Dr. S. M. Zahurul Islam, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
10:45-10:55	CE 0113	Experimental Investigation of Beams on Elastic Foundation Subjected to Static Concentrated Load	M. Ahamed, C. Mondal, T. U. Ahmed
10:55-11:05	CE 0191	Enhancement of Axial Capacity of Brick Masonry Column by Ferrocement Jacketing	M. Z. Habib, K.A. Manjur, M. M. Hoque
11:05-11:15	CE 0228	Exploring the Impact of Exterior Facade Materials on Energy Performance of Residential Structures in Bangladesh	Jawad Ashraf, Md. Mushfiqur Rahman, Md. Jewel Rana
11:30-11:40	CE 0263	Effectiveness of ECC Encasement on the Compressive Behavior of Slender CFST Column- A Numerical Study	Nazib Ahmed, Mohammad Shahriar Hossain, Mehedi Hassan Hridoy, Mohammad Imran Kabir
11:40-11:50	CE 0379	Estimation of the Evacuation Time Depending on the Optimization of the Exits of a Commercial Building	J. Anjum, M. S. Islam
11:50-12:00	CE 0430	Effects of Planar Irregularities on Seismic Responses of Building Under Bi-directional Ground Motions	Md. Basir Zisan and Sejan Ahmed Liman
12:00-12:10	CE 0432	Durability of Rice Husk Ash Concrete in Chloride Environment	Md. Abul Hasan, Prof. Dr. Md. Saiful Islam, Prof. Md. Moinul Islam, Sabrina Islam

TECHNICAL SESSION-21

Day 2 (October 13, 2023)

Time: 10:45–12:15

Room No.: CE Meeting Room

Session Chair: Prof. Dr. Md. Niamul Bari, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
10:45-10:55	CE 0434	Assessing Plastic Waste in Marine Environment using Foreign Ships from Chattogram Port	Niloy Das, Trisa Das, Sudip Kumar Pal, Mst. Farzana Rahman Zuthi, Eckhard Kraft, Thomas Haupt, Susanne Kuehlewindt
10:55-11:05	CE 0128	A Comparative Study of Sound Level in Two Cities Gazipur and Cox's Bazar	Md. Ramjan Ali, Umme Saima Zanzabil, Al Amin, Md. Rezaul Islam
11:05-11:15	CE 0134	A review on Natural Coagulants in Wastewater Treatment	Md Shariful Islam, Md Akramuzzaman Sojib, Tazul Islam, S M Ahsanur Rahman Shuvo, Jannatun Nesa
11:30-11:40	CE 0163	A Study on Leachate Treatment of Amin Bazar Solid Waste Landfill Site	Washilatun Nahar, Rayhana Sultana, Umme Tahmina Toma, Jannatul Fardous Dola, Mehedi Hasan Sawpon
11:40-11:50	CE 0308	An Integrated Assessment of the Land use Change Impact on Climatic Factors and Water Quality in the Kalurghat Heavy Industrial Area, Chattogram	Sajib Sarker, Bristy Das
11:50-12:00	CE 0340	A GIS Based Solid Waste Management of Rajshahi City Corporation	Shahida Afrin, Farhana Afroz, Dr Md Shahid Uz Zaman
12:00-12:10	CE 0349	An Assessment on Removal of Chromium from Water Using Activated Carbon Prepared from Coconut Shell	M. M. Fahad Islam Barno, Muhtasim Saad, Imtiaz Ibne Azad

TECHNICAL SESSION-22

Day 2 (October 13, 2023)

Time: 10:45–12:15

Room No.: CE 2403

Session Chair: Prof. Dr. Md. Mahmud Sazzad, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
10:45-10:55	CE 0145	Application of Delft3D FM Suite for Simulating the Hydrodynamic Characteristics of Karnafuli River	Maiesha Nujhat, Badal Mahalder, Md. Sabbir Mostafa Khan
10:55-11:05	CE 0301	Impacts of Climate Change on Groundwater Resources Through ML Models in Rajshahi District	Dr. Anupam Chowdhury, Tamim Are Asif, Dr. Md. Zahanggir Alam, Dr. H. M. Rasel, Dr. Md. Niamul Bari
11:05-11:15	CE 0361	Feasibility Study of Supplementary Irrigation with Pond Water in Tanore Upazilla under Barind Tract	M. N. Bari ¹ , M. Z. Alam ² , H. M. Rasel ³ , A. Choudhury ⁴ , J. Ferdoush ⁵
11:30-11:40	CE 0401	Performance Evaluation of the Manu Barrage Irrigation Project	Md. Abul Hasan Rana, Mofizul Islam, Nur Shadia
11:40-11:50	CE 0424	Forecasting the annual variability of evaporation using ML-based regression techniques	H. M. Rasel, Md. Abu Saleh
11:50-12:00	CE 0429	Application of Remote Sensing to Investigate the Impact of Musapur Reservoir on the Morphology of Little Feni River and Local Agricultural Production	Maliha Islam Neha, Md Sadbir Rahman, Md Feroz Islam
12:00-12:10	CE 0438	Erosion Threat Analysis for the Stability of a Sedimentary Deposit in a Tidal River	Md. Kabirul Islam, Md. Munsur Rahman

TECHNICAL SESSION-23

Day 2 (October 13, 2023)

Time: 10:45–12:15

Room No.: CE 2301

Session Chair: Prof. Dr. Md. Kumruzzaman, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
10:45-10:55	CE 0118	Influence of Water on Bituminous Mixes Using Modified Binders	Md. Sohel Rana, Tamanna Rahman, Md. Azizur Rahman, Zahidul Islam
10:55-11:05	CE 0119	Assessment of Road Safety for Pedestrians in Rajshahi City, Bangladesh	Md. Mohayminul Islam, Shanon Goshami, Tajwar Taskin, Md. Tanvir Bin Ahasan
11:05-11:15	CE 0196	Influence of Base Layer Thickness on Flexible Pavement under Moving Load	Md. Rafi All Hassan, Md. Shahriar Islam, M. A. Sayeed
11:30-11:40	CE 0201	Effect of Moisture on the Stress-Deflection Behavior of Laterally Loaded Group Piles	Md. Mahmud Sazzad, Roja Ashrafi Medha
11:40-11:50	CE 0277	Traffic Congestion in Dhaka City - A Case Study in Mirpur 1 to Mirpur 10	Nasrin Jahan Shila, Umme Tahmina Toma, Joy Podder, Md. Moshir Rahman
11:50-12:00	CE 0354	Assessment of Physical and Chemical Attributes of Road Dust of Dhaka- Natore Highway	Md. Zahanggir Alam, Kamrun Nahar Mim, Niamul Bari, Anupom Chowdhury, Naziza Afrida Khalid, Md. Moshir Rahman
12:00-12:10	CE 0370	Correlation of Critical State Parameter with Plasticity Index of Soils	Md. Hamidur Rahman, Md. Zahanggir Alam, Kamrun Nahar Mim

TECHNICAL SESSION-24

Day 2 (October 13, 2023)

Time: 10:45–12:15

Room No.: CE 2302

Session Chair: Dr. Anupam Chowdhury, Associate Professor, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
10:45-10:55	CE 0192	Conceptualization of a Sustainable On-Site Sewage Management System for Building Construction with Combining Drainage Channels, Composting Facilities and Recycling Abilities.	Mohammad Akib Islam, Enamul Hasan Shagato
10:55-11:05	CE 0202	Environmental Impact of Landfill on Groundwater Quality in City Hut Landfill Area, Rajshahi	Protic Kumar Roy, Md. Mohayminul Islam, Tabiul Murshalin, Md. Shafi Uddin Miah
11:05-11:15	CE 0275	Estimating Water Footprint of Crops for a Selected Area in Dhaka Division of Bangladesh	Abida Sultana Lina, Sajal Kumar Adhikary
11:30-11:40	CE 0333	Seasonal Variation of PM _{2.5} Concentration in the Air of Dhaka: An Analysis with Recommendations	Md Shoaib Chowdhury, Chowdhury Arafat Hossain, Sanjeev Delwar
11:40-11:50	CE 0348	Competitive Removal of Color from Textile Effluents in Bangladesh by Activated Carbon and Lime in Batch and Fixed Bed Column Experiments	Adib Hossain Sijan, Sadman Siam, Fuad Bin Nazrul, Md Rezaul Karim
11:50-12:00	CE 0373	Defining the Regions Based on Remittance on Household Welfare in Bangladesh	Amrina Binte Salim, Bablur Rahman, Anutosh Das, Sumita Roy
12:00-12:10	CE 0417	Evaporative Salinity Movement Pattern through Different Types of Brick Setup	Md Habibullah Hadiuzzaman, Quazi Hamidul Bari, Hamim Saied

TECHNICAL SESSION-25

Day 2 (October 13, 2023)

Time: 14:00–15:15

Room No.: CE 2201

Session Chair: Dr. Mst. Ilme Faridatul, Associate Professor, URP, RUET

Time	Paper ID	Title	Authors
14:00-14:10	URP 0125	Assessment of the Land Use Change and Economic Transition Under the Impacts of River Course Alteration in Rural Areas Rajshahi: A PRA Framework-based Analysis	Rowdra Dip Chakraborty, Md. Shaikur Rahman Sun, Bipasha Akter, Abir Ornob, Md. Abdul Wakil, Anutosh Das
14:10-14:20	URP 0128	An Analytical Approach for Digital Transformation & Modernizing Agricultural Framework through ICT in Rural Areas, Rajshahi	Rowdra Dip Chakraborty, Mehedi Hasan, Md. Atik Shahriar, Rownik Jahan, Md. Abdul Wakil, Dulal Sarker
14:20-14:30	URP 0129	An Assessment of Supply Chain Mechanisms of Pisciculture: A Case Study in Debipur, Durgapur, Rajshahi	Labib Intisar, Shahed Mahmud Ayan, Tayaba Tabassum Orthy, Mashfiq Anzum Arnob, Md. Abdul Wakil, Anutosh Das
14:30-14:40	URP 0133	Community-Based Tourism Development Through Empowering Local Stakeholders: A Case Study of Natore	Yeasin Ahmead, Md. Shefat Reza, S.M. Rakibul Haasan, Most. Farjana, Dr. Md Abdul Wakil, Anutosh Das
14:45-14:55	URP 0134	Developing Unplanned Residential Land Through Implementation of Land Readjustment: A case study of Aliganja, Rajshahi	Md. Shefat Reza, Yeasin Ahmead, Abraul Ahmed, Imran Khan, Ferdous Farhana Huq, Muhaiminul Islam
14:55-15:05	URP 0135	Analysis of market margin on rural agricultural products	Md. Shefat Reza, Yeasin Ahmead, Imran Khan, Abraul Ahmed, Dr. Md Abdul Wakil, Dulal Sarker
15:05-15:15	URP 0138	Regionalization and Assessing Disease Prone Regions through Environmental Pollution in Bangladesh	MD. Toufiq Hossain, Md. Juwel Rana, Anutosh Das, Sumita Roy

TECHNICAL SESSION-26

Day 2 (October 13, 2023)

Time: 14:00–15:15

Room No.: CE 2202

Session Chair: Prof. Dr. Abu Sufian Md. Zia Hasan, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
14:00-14:10	ARCH 0135	Framing the Past: Experiencing an Archaeological Museum as Cultural Nexus at Mainamati, Cumilla	Maliha Rahman, Khandaker Sadikur Rahman, Md. Raihan Khan
14:10-14:20	BECM 0104	Fly Ash Brick: An Environmental Pollutant Converts into Eco-friendly Building Material	Md. Akramuzzaman Sojib, Jannatun Nesa, Maisha Kabir, Sudip kumar Pal
14:20-14:30	ARCH 0160	Exploring the Hidden Functionality of the Underneath Space of Moghbazar Flyover, Dhaka	Aneeka Habib, Anika Amzad Rachi
14:30-14:40	BECM 0127	Enhancement of Concrete's Flexibility Using Local Ingredients	F. Abdullah, J. A. Mouri & T. A. Jui
14:45-14:55	BECM 0109	Elevating Industries: Unveiling Multifaceted Benefits of Green Infrastructure for Energy, Waste, Workspaces, and Employee Health	M.I. Ahmmed, M. Rubayet, J.A. Mahmud, F. Abdullah, N. Jahan
14:55-15:05	CE 0178	Development of Sustainable Low-Cost Housing in Bangladesh	Md. Touhidul Islam, Kazi Hosne R Rafy, Dr. Ahsanul Kabir
15:05-15:15	CE 0233	A Study on the Road Crossing Behavior of High School & College Students in Dhaka City	Aditya Basunia, Tanzim Hossain Anchal, Tanzila Zannat Mahzabeen, Niaz Ahmed, Shakil Mohammad Rifaat

TECHNICAL SESSION-27

Day 2 (October 13, 2023)

Time: 14:00–15:15

Room No.: CE Meeting Room

Session Chair: Prof. Dr. NHM Kamrujjaman Serker, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
14:00-14:10	CE 0111	Analysis of the Deflection Ratio of a Real-Life RCC Beam and Its' Half Scale Model	M. karim, H. R. Kamal
14:10-14:20	CE 0243	Combined influence of Waste Marble Powder and Silica Fume on the Mechanical Properties of Structural Cellular Lightweight Concrete	Md. Kawsarul Islam Kabbo, Md. Habibur Rahman Sobuz, Mahmudur Hossain Khan
14:20-14:30	CE 0273	Appraisal of Public Health Responses Exposure to Air and Noise Pollution from Diverse Modes of Transportation in an Urban Context	M. H. Masum, M. Kabir
14:30-14:40	CE 0274	Comparative Analysis of Building Seismic Response: Exploring the Impact of Evolving Design Standards on Structures.	Jarin Tasnim, M.M. Emtiaz
14:45-14:55	CE 0345	Bio-Based approach of Self-Healing Concrete: A Comprehensive Review	M. Humaira, N. J. Monica, A. Mim
14:55-15:05	CE 0437	Comparative Analysis of Heat Island Effect: Traditional versus Pervious Concrete	Md Tushar Ali, Md. Harunur Rashid
15:05-15:15	CE 0440	Analyzing Strength Development Characteristics in Concrete: A Comparative Study between Concrete with Composite Cement and Ordinary Portland Cement.	Liton Chandra Das, Bimal Das, Dr. Mahmood Omar Imam

TECHNICAL SESSION-28

Day 2 (October 13, 2023)

Time: 14:00–15:15

Room No.: CE 2403

Session Chair: Prof. Dr. S. M. Zahurul Islam, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
14:00-14:10	CE 0212	From Source to Use: Performance Evaluation of Water Treatment Plant in KUET, Khulna, Bangladesh	Md. Atik Fayshal, Tasnim Tarannum Jarin, M Atikur Rahman, Sajedul Kabir
14:10-14:20	CE 0304	Identification and characterization of microplastics in surface water sources at Rajshahi City	Md. Mahamudul Islam Shuvo, Showmik Sarkar, Dr. Anupam Chowdhury, Md. Ahasanur Rabbi, Firoz Ahmed
14:20-14:30	CE 0150	Impact of Electrode Materials, Electrode Number, and pH on the Treatment of a Tannery Chrome Effluent by Electrocoagulation	S. A. Mamun, Saadat Shahidi, Akram Mahmud, and Dr. M. A. Jalil
14:30-14:40	CE 0356	Investigating the Feasibility of Incorporating a Bio Toilet into the Sanitation Infrastructure of Bangladesh Railway	Uday Karmoker, Nazmus Sakib
14:45-14:55	CE 0394	Distress in The Old Brick Masonry Bridges of Bangladesh Railway and Remedial Measure with A New Approach - A Case Study	Md. Hamidur Rahman, Md. Zahanggir Alam, Kamrun Nahar Mim
14:55-15:05	CE 0405	Land use/land cover changes and their impact on land surface temperature using remote sensing technique in Chapai Nawabganj, Bangladesh	M. I. Hossain, A. Mondal, H. M. Rasel, M. Z. Alam, M. N. Bari, A. Chowdhury
15:05-15:15	CE 0409	Machine Learning Approach for Accurate Forecasting of Monthly Air Temperature: A Case Study in Chapainawabganj, Bangladesh	R. Sarker, H. M. Rasel, S. A. Saki

TECHNICAL SESSION-29

Day 2 (October 13, 2023)

Time: 14:00–15:15

Room No.: CE 2301

Session Chair: Prof. Dr. Md. Robiul Awall, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
14:00-14:10	ARCH 0149	Climatic Adaptation of Foreign Architects in Early Modern Architecture of Bangladesh	Mashudur Rahman Fahim
14:10-14:20	ARCH 0134	Assessing the Efficiency of a Residential Building Façade in Reducing Traffic Noise from an Adjacent Distributor Road in Kallyanpur, Dhaka	Muhammad Shadman Mahtab, Anirudva Bhowmik
14:20-14:30	ARCH 0137	Assessing the Publicness of Recently Developed Public Spaces in Sylhet City Corporation Area	Kanak Kanti Saha, Arpan Shil, Azima Tabassum
14:30-14:40	ARCH 0148	Challenges of pandemic responsiveness on/of interactive space of tertiary educational institute: Lesson from public universities of Khulna	M. R. Khan, P. S. Anik, A. R. Aliva, S.A.Tisa
14:45-14:55	ARCH 0157	Construction Techniques of Locally Crafted Prefabricated Houses of “Ghorer Hat” in Munshiganj	Humayra Anan
14:55-15:05	CE 0336	Women's Safety and Freedom of Mobility: Seeing Gender Based Crime through City Planning and Design	Shafinaz Sameen

TECHNICAL SESSION-30

Day 2 (October 13, 2023)

Time: 14:00–15:15

Room No.: CE 2302

Session Chair: Dr. Md Abdul Wakil, Assistant Professor, URP, RUET

Time	Paper ID	Title	Authors
14:00-14:10	URP 0102	Exploring Rainfall-induced Landslide Risk Reduction Strategies in Low-income Informal Settlements of Chattogram	Abbasi Khanm, Shaikh Mahfuz Alam, Nafiza Yeasmin Rahman, Md. Mainul Hassan Tuheen
14:10-14:20	URP 0103	Spatial Accessibility Analysis of the Cyclone Shelters in The Southern Part Of Bangladesh	Md. Touhidul Islam, Farhana Kabir, Sumia Rahaman
14:20-14:30	URP 0109	Assessing the Health and Water Supply Status of Rajshahi City Corporation Slum Units Through Participatory Approach	Mehedi Mohammad Zummah, Sakibul Islam, Md. Motaleb Hossain, Sadat Mohammad Ayan, Muhaiminul Islam, Dulal Sarker
14:30-14:40	URP 0120	Impacts of Market Waste on Water Quality Degradation: A Case of Gollamari Bazar, Khulna, Bangladesh	Md. Sadi Murshed Bhuiyan, Atique Ahammad Zawad, Md. Muhaiminul Islam, Dr. Rumana Asad
14:45-14:55	URP 0123	Implementation, Challenges and Advancement of Agile Project Management in Modern Projects	M. T. Mahi, M. A. Islam, M. A. H. Talukder
14:55-15:05	URP 0132	An application of landscape design for ensuring vibrant and travel-friendly roads for commercial place: A case study of Shaheb Bazar, Rajshahi	Mashfiq Anzum Arnob, Shahed Mahmud Ayan, Labib Intisar, Tayaba Tabassum Orthy, Sumita Roy, Muhammad Waresul Hassan Nipun
15:05-15:15	URP 0144	Designing a Modern Bus Terminal: A Case Study of Nowdapara Bus Terminal, Rajshahi	Amrina Binte Salim, Sadia Sultana Disha, H.M Hasibur Rahman, Sambit Sami Sammo, Sumita Roy, Muhammad Waresul Hassan Nipun

PRAYER & TEA BREAK

Day 2 (October 13, 2023)

Time: 15:45–16:15

Place: CE 2203

TECHNICAL SESSION-31

Day 2 (October 13, 2023)

Time: 15:15–16:45

Room No.: CE 2201

Session Chair: Prof. Dr. Md. Niamul Bari, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
15:15-15:25	CE 0177	Urban Sustainability Assessment, Incentives & Impediments Towards Rooftop Farming Practice in Dhaka City, Bangladesh	Aninda Ghosh Partha, Md. Rabiul Hasan, Md. Tafsirul Islam, Sultana Musfirat Negar Parvin, Mehedi Hasan
15:25-15:35	CE 0236	Influence of Site-specific Land Use Patterns on Event Mean Concentrations (EMC) of Runoff Pollutants in an Urban Setting	M. H. Masum, I. J. Ruva, S. K. Pal
15:35-15:45	CE 0300	Vulnerability Assessment of Cyclone by Using ArcGIS: A Case Study of Chittagong District	A. Chowdhury, T.S. Umama, H.M. Rasel, M. Z. Alam, M.N. Bari
15:45-15:55	CE 0350	Urban Sanitation Facilities and Its Management in Rajshahi City	Md. Niamul Bari, Md. Raihan Kabir
16:10-16:20	CE 0351	Study on Efficiency of a Negative Pressure Irrigation System	Wahida Asna, Sinthia Shamsi, S. M. Moniruzzaman
16:20-16:30	CE 0362	Potentiality of Supplementary Irrigation with Existing Small Water Bodies in Patnitala and Sapahar Upazila of Naogaon District	M. N. Bari, A. Choudhury, H. M. Rasel, M. Z. Alam, M. A. R.Razu
16:30-16:40	CE 0407	Assessing Flood Vulnerability at Chilmari Upazilla in Bangladesh through GIS and AHP Approaches	A. B. M. S. Hossain, H. M. Rasel, S. M. A. A. Ahad, M. N. Bari, M. Z. Alam, A. Chowdhury

TECHNICAL SESSION-32

Day 2 (October 13, 2023)

Time: 15:15–16:45

Room No.: CE 2202

Session Chair: Prof. Dr. Md. Harunur Rashid, Department of Civil Engineering, KUET

Time	Paper ID	Title	Authors
15:15-15:25	CE 0121	Sustainable Commercial Building Utilization by Efficient Electricity and Water Consumption	S. N. Satu, M. I. Rattray, T. A. Robin
15:25-15:35	CE 0186	Theoretical Analysis of Steel Retrofitted Beam-Column Joint by ANSYS Modeling	Sayed Abul Monsur Anachh, Abdullah Al Momen, Ratul Ahmed, Kazi Abu Manjur
15:35-15:45	CE 0227	Utilization of Ground Granulated Blast Furnace Slag and Flue Gas Desulfurization Gypsum on Concrete Properties	Jawad Ashraf, Asfia Akter Rifa
15:55-16:05	CE 0290	Seismic Retrofitting of an Existing Structure & its Cost-Effectiveness	F.R. Anika, T. Sarker, M. Ahamed, M.R. Awall
16:05-16:15	CE 0315	The Effect of Regular and Irregular Curing on the Mechanical Property of Normal Strength Concrete in Hot and Humid Weather	Md. Soheli, M. H. Rashid
16:15-16:25	CE 0321	Study on Use of Recycled Plastic Bottle Chips as a Partial Replacement of Sand in Cement-Mortar Mix	M. Chakrabartty, S. Saha, A. H. M. Adyeel, G. M. Harun, F. F. Rafat
16:25-16:35	CE 0343	Investigating Temperature Impact on Physical, Mechanical, and Recovery Properties of Construction Woods in Bangladesh	Md. Anjum Bin Anam, Spandan Basak Payel ² , Md. Tanvir Siraj

TECHNICAL SESSION-33

Day 2 (October 13, 2023)

Time: 15:15–16:45

Room No.: CE Meeting Room

Session Chair: Prof. Dr. Md. Abu Sayeed, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
15:15-15:25	CE 0160	Study on Existing Faecal Sludge Management Situation in Dinajpur Municipality	M. H. A. Rashid, M. S. Rahman
15:25-15:35	CE 0347	Urban Water Supply System and Its Management in Ward-16 under Rajshahi City Corporation, Rajshahi	Md.Sarwar Islam, Dr. Md. Niamul Bari
15:35-15:45	CE 0353	Water quality and comparative pollution assessment of twelve major rivers in Bangladesh	Likhon Chandra Roy, Atonu Saha, Md. Rozain Rahman
15:45-15:55	CE 0403	The Impacts of Leather Industry Effluents on The Water Quality of Bhairab River	M. Hasan, M. A. B. Siddiq
16:10-16:20	CE 0408	Study on Seasonal Variation of Pond Water Quality of Bagatipara Upazila, Natore.	R. Parvin, T. Hasan, M.M. Islam, M. M. Rahman, M.S. Islam, M.R. Hasan
16:20-16:30	CE 0416	Socio-Environmental Role of Stakeholders of Recycling Waste Trade in Khulna City	Abdullah Al Hasan, Quazi Hamidul Bari, Md. Rafizul Islam, Jobaer Ahmed Saju, Eckhard Kraft, Philipp Lorber

TECHNICAL SESSION-34

Day 2 (October 13, 2023)

Time: 15:15–16:45

Room No.: CE 2301

Session Chair: Prof. Dr. Syed Abdul Mofiz, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
15:15-15:25	CE 0229	Analysis of Jaywalking Behavior among University Students of Bangladesh	S M Rishad Rashid, Ifrad Hossain, Anika Tabbassum, Niaz Ahmed, Shakil Mohammad Rifaat
15:25-15:35	CE 0234	Safety Perception of Pedestrians at Level Crossings in Bangladesh	Maisha Hossain, Pretom Md. Tahmidur Rahman, Tasfia Yousuf, Niaz Ahmed, Shakil Mohammad Rifaat
15:35-15:45	CE 0335	An IoT Based Sustainable Automation system for the Garments industry in Bangladesh	Khandakar Rabbi Ahmed, Rabina Afrin Ameer, Md. Tareq Mia, Md Alomgir Hossain, Nazmul Hasan, Khandakar Shadman Shayer, Md. Badoruzzaman, Ishtiaq Ahmed Safin
15:45-15:55	ARCH 0124	Artificial Intelligence Design Advancements: The Role of AI in Architectural Design	M.Rubayet, J.A.Mouri, M.I. Ahmmed, M.S. Ishtiaq ,A.K.Shuvo
16:10-16:20	ARCH 0122	Architecture and Artificial Intelligence A study from the perspective of a developing country like Bangladesh	Afeefa Adeeba Rahman, Asfaq Ahmed Shahul, Ramisa Tasnim
16:20-16:30	BECM 0107	Advancing Green Building Design in Bangladesh: Empowering Sustainability with Polyurethane Foam for High-Performance Insulation and Eco-Friendly Construction	M.Rubayet, M.I.Ahmmed, F. Abdullah
16:30-16:40	BECM 0128	An investigation of contractual dispute avoidance measures taken by construction firms in Bangladesh during COVID-19: Effective options for dispute resolution	Sharmin Umme Hani Lobongo, Md. Ashraf Islam, Ashadul Islam

TECHNICAL SESSION-35

Day 2 (October 13, 2023)

Time: 15:15–16:45

Room No.: CE 2302

Session Chair: Prof. Dr. Md. Shafiqul Islam, Department of Civil Engineering, RUET

Time	Paper ID	Title	Authors
15:15-15:25	ARCH 0101	A socio-ecological resilience approach for coastal community: A case of Southkhali, Bagerhat	Chowdhury A. M. Siddique Shuvra, Mumtahn Ahmad, Raisa Nanziba
15:25-15:35	ARCH 0102	A study on the design guidelines of conceptual prototype proposal for the emergency shelter of the vulnerable Rohingya community in Ukhiya and Teknaf	Afeefa Adeeba Rahman, Shariar Alam
15:35-15:45	BECM 0111	A Comparative study of low-cost housing between Bangladesh and Malaysia	Oaisul Mostofa Karim, Nishat Jahan, Md. Asadul Islam
15:45-15:55	BECM 0124	A More Bio-Receptive Concrete Façade Design: A Greener Way to Breathe	Uday Karmoker, Shree Joy Kumar Paul, Paromita Datta Ray, Mithun Chakrabartty
16:10-16:20	ARCH 0127	A Definite Approach Towards Smart Classroom Equipped with Proper Acoustical Treatment, HVAC, Structural Arrangement and Human Psychology.	Mehedi Hasan, Mohammad Akib Islam, Shahriar Bin Rafique
16:20-16:30	ARCH 0165	A Study on A Spatial Model of Eco-Tourism for Economic Capital Growth in Sundarbans, Bangladesh.	Rifat Bin Ali, Sanjida Akter Rumki, Zabid Ahasan Tarafder, Fadia Binte Shahidullah

CLOSING CEREMONY OF ICPACE 2023

Day 2 (October 13, 2023)

Time: 17:00–17:30

Venue: CE 2403

Chair: Prof. Dr. Md. Niamul Bari, Dean, Faculty of Civil Engineering, RUET

GALA DINNER

Day 2 (October 13, 2023)

Time: 18:30-7:30

Place: Nan King