

**2nd International Conference on Planning, Architecture and Civil Engineering (ICPACE), 2019**  
**7-9 February, 2019**

**Organized by:** Faculty of Civil Engineering, RUET, Rajshahi-6204, Bangladesh

**Program Schedule of ICPACE, 2019**

**Day 1: February 7, 2019 (Thursday)**

<b>Time</b>	<b>Venue</b>	<b>Event</b>
8:00-9:00 AM	CE Building	Collection of Conference Kit and Reporting of Registered Participants
9:00-10:15 AM	RUET Auditorium	Inaugural Ceremony of ICPACE, 2019
10:15-10:45 AM	RUET Cafeteria	Refreshment
10:45-11:45 AM	RUET Auditorium	Keynote Session-1
12:00 -1:15 PM	CE Building	Parallel Technical Sessions (1st, 2nd & 3rd)
1:15-2:45 PM	CE Building	Lunch & Prayer Break
2:45-4:00 PM	CE Building	Parallel Technical Sessions (4th, 5th & 6th)
4:00-4:45 PM	CE Building	Coffee & Prayer Break
4:45-6:00 PM	CE Building	Parallel Technical Sessions (7th, 8th & 9th)

**Day 2: February 8, 2019 (Friday)**

<b>Time</b>	<b>Venue</b>	<b>Event</b>
9:30-10:30 AM	CE Building	Keynote Session-2
10:30-11.00 AM	CE Building	Coffee Break
11:00 AM-12:15 PM	CE Building	Parallel Technical Sessions (10th, 11th & 12th)
12:15-2:45 PM	CE Building	Lunch & Prayer Break
2:45-4:15 PM	CE Building	Parallel Technical Sessions (13th &14th)
4:15-5:00 PM	CE Building	Coffee & Prayer Break
5:00-5:50 PM	CE Building	Closing Ceremony of ICPACE, 2019
7.00 PM~	Cookie Jar	Gala Dinner

**Day 3: February 9, 2019 (Saturday)**

Conference Tour: Reporting time 7.30 AM, CE Building, RUET

## Keynote and Technical Session Details

### Keynote Session-1

**Date:** February 7, 2019 (Thursday)

**Venue:** RUET Auditorium

**Time:** 10:45 AM-11:45 AM

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

Paper ID	Title of Keynote Paper and Speaker
KL_01	<p><b>Paper Title:</b> Achieving SDG6: Clean Water and Sanitation for All  <b>Speaker:</b> Dr. M. Habibur Rahman, Prof., Dept. of Civil Engineering, BUET and Chairman, Dhaka WASA Board, Dhaka, Bangladesh</p>
KL_02	<p><b>Paper Title:</b> Unifying Critical State Soil Mechanics and Equivalent State Theory for Developing Constitutive Model for Silty Sands  <b>Speaker:</b> Dr. Md. Mizanur Rahman, Assoc. Prof., School of Natural and Built Environments, University of South Australia, Australia</p>

### Technical Session-1

**Date:** February 7, 2019 (Thursday)

**Venue:** CE Building, Seminar Room-01

**Time:** 12:00 PM-1:15 PM

**Session Chair:** Prof. Dr. Hasib Mohammed Ahsan, Dept. of Civil Engineering, BUET

Paper ID	Title of Paper and Authors
CE_19	<p>Effects of Leaching on the Properties of Concrete  <i>J. C. Kuri, S. Akter, A. Choudhury</i></p>
CE_26	<p>Seismic Vulnerability Assessment of Existing RCC Buildings in Dinajpur City: A Case Study on Ward No. 06  <i>M. I. Mostazid, M. Mahabub, M. Mahabur</i></p>
CE_27	<p>Numerical Analysis of Simply Supported Beam on an Elastic Foundation  <i>A. S. M. Z. Hasan, J. M. R. I. Shohag, N. Mohammad</i></p>
CE_28	<p>Effect of Compressive Strength on Concrete in Hot Weather  <i>M. R. Awall, M. R. Amin</i></p>
CE_31	<p>Optimum Position of Outrigger System for Tall Buildings  <i>F. Afsari</i></p>

**Technical Session-2****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-02****Time: 12:00 PM-1:15 PM****Session Chair: Prof. Dr. Md. Shafiqul Islam, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
CE_11	Effects of Foundation Shape on Settlement and Bearing Capacity of Soils at Rajshahi City, Bangladesh <i>M. A. Alim, M. M. Rana, M. A. Alam, M. Roknuzzaman</i>
CE_33	Performance Assessment of Retrofitted RC Frames with Different Patterns of Steel Bracing <i>M. Hisamuzzaman, S. Rana</i>
CE_42	An Experimental Investigation on Pore Structures of Pervious Concrete Using Digital Image Analysis <i>C. Roy, M. Rana, A. Hossain, A. Hasnat, T. U. Mohammed</i>
CE_48	Structural Vulnerability of Buildings to Earthquake of Ward No. 14, Mymensingh Municipality, Bangladesh <i>M. A. Islam, T. T. Isabal, I. Aziz, S. Aziz, R. Ahsan</i>
CE_49	Effect of Setback Percentages in Vertically Irregular Concrete Buildings on Response to Earthquake <i>M. S. Azad, M. M. Sazzad, N. Samadder, M. F. Rahman</i>

**Technical Session-3****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-03****Time: 12:00 PM-1:15 PM****Session Chair: Prof. Dr. S. M. Zahurul Islam, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
CE_64	Development of Self-Compacting Concrete Using Sugarcane Bagasse Ash <i>N. H. M. K. Serker, N. M. Khan</i>
CE_72	Optimization of Vibration Control Using Outrigger and Pendulum Tuned Mass Damper System for High-Rise Building <i>C. A. Tuan, T. T. Nahar, D. K. Kim</i>
CE_73	Use of Various Types of Cement Mortars for Improved Structural Fire Resistance <i>M. T. Islam, M. A. Rahman, I. Ahmed</i>
CE_77	Seismic Risk Assessment Based on Drift Ratio for Steel Frame Using High Dimensional Model Representation and Incremental Dynamic Analysis <i>T. T. Nahar, M. M. Rahman, C. A. Tuan, D. K. Kim</i>
CE_80	Utilization of Waste by Using Stone Dust as Fine Aggregate and Condensed Milk-Can as Fiber Reinforcement in Concrete <i>M. Haque, S. Ray, M. Z. Islam, K. Mahato, M. W. Hasan</i>

**Technical Session-4****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-01****Time: 2:45 PM-4:00 PM****Session Chair: Prof. Dr. Md. Robiul Awall, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
CE_82	Experimental Analysis on Self-Compacting Concrete (SCC) Made with Locally Available Materials Incorporating Different W/C Ratio <i>C. Roy, A. A. Mansur, R. Hasan, T. Ullah, T. U. Mohammed</i>
CE_83	Automation in Construction: A Survey <i>T. S. Pias, M. R. H. Plabon</i>
CE_105	Energy Performance Analysis of a Residential Building: A Case Study on a Typical Residential Building at Mohammadpur in Dhaka, Bangladesh <i>M. R. Hasan, J. Akter</i>
CE_106	Project Planning and Scheduling Using Project Management Techniques: A Case Study on Janata Bank Building at KUET Campus, Bangladesh <i>M. R. Hasan, M. S. Islam</i>
CE_121	Experimental Investigation on Screw Fastened Different Ribbed Profiled Steel Sheet Under Simulated Uplift Load <i>S. M. Z. Islam, B. Ahmed, G. S. Himel, A. Ghosh</i>

**Technical Session-5****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-02****Time: 2:45 PM-4:00 PM****Session Chair: Prof. Dr. Md. Niamul Bari, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
CE_13	Assessment of Tannery Effluent: A Case Study on Dhaleshwari River in Bangladesh <i>P. K. Ghosh, M. D. Hossain</i>
CE_15	A Study on Waste Pickers in Gazipur City <i>M. H. Shah, S. M. S. A. Shovon, M. T. Islam</i>
CE_37	Land Use and Land Cover Classification of Coastal Districts of Bangladesh in a 10m Resolution of Sentinel-2 Satellite Image <i>S. Islam, A. H. Tanim, M. R. A. Mullick</i>
CE_52	Analysis of Heavy Metal Concentrations in Soil of Waste Disposal Site in Khulna Using Soft Computing Systems <i>K. S. Shyamol, I.M. Rafizul</i>
CE_127	Challenges of Disaster Resilient Shelter Construction in Bangladesh <i>M. Kamruzzaman, S. Sarker, M. Chakrabartty</i>

**Technical Session-6****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-03****Time: 2:45 PM-4:00 PM****Session Chair: Prof. Dr. Shafi Uddin Miah, Dept. of Civil Engineering, RUET**

Paper ID	Title of Paper and Authors
CE_20	Impact of Land Use Characteristics on Urban Storm Water Quality in Rajshahi City <i>P. Chakraborty, A. Chowdhury</i>
CE_50	Study on the Performance Evaluation of Teesta Barrage and Irrigation Project <i>P. K. Roy, S. M. Shirazi, R. A. Hasan, G. Rabbani</i>
CE_75	Development of a Mathematical Model for Unsteady Flow in a Single Channel of the Karnaphuli River for Dry and Wet Season <i>T. Islam, M. A. N. Hasan, T. Sharmin</i>
CE_109	Study on the Effect of Slot Size on Soil Erosion Due to Defective Pipe in Wet Condition. <i>N. Basak, G. Sarkar</i>
CE_128	Bank Erosion in a Curved Reach of Padma River <i>M. N. Haque, S. Egashira, A. Yorozuya, D. Harada</i>

**Technical Session-7****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-01****Time: 4:45 PM-6:00 PM****Session Chair: Prof. Dr. Md. Kumruzzaman, Dept. of Civil Engineering, RUET**

Paper ID	Title of Paper and Authors
CE_01	Operational Constraints in Conventional Managed Aquifer Recharge in Barind Area at North-Western Region of Bangladesh. <i>M. I. Hossain, M. N. Bari, S. U. Miah</i>
CE_45	Water Quality Assessment: A Case Study on Rajshahi Medical College Hospital, Bangladesh <i>M. M. Rana, M. N. Ahmed, M. Ashikuzzaman</i>
CE_51	Study on Compressibility and Strength Behavior of Cement Stabilized Soil at High Water Content <i>S. Afrin, I. M Rafizul</i>
CE_66	Drinking Water Scarcity in the Southwest Coastal Area in Bangladesh <i>M. M. Rahman, M. A. Alum, S. A. Haq</i>
CE_102	A Brief Study on Water Quality Liable for Contaminating the River Padma, Rajshahi <i>G. M. H. Rashid, M. M. Islam, M. S. Islam, M. N. Hasan</i>

**Technical Session-8****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-02****Time: 4:45 PM-6:00 PM****Session Chair: Dr. Md. Mizanur Rahman, School of Natural and Built Environments, University of South Australia, Australia**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
CE_09	Soil Stabilization Using Cement as Binder and Nylon Thread as Reinforcement <i>S. Das, A. Barua, S. Chakraborty</i>
CE_34	Effect of Water Submergence on the Serviceability of Jute Geotextile <i>M. A. Hossain, T. Tabassum</i>
CE_53	GIS based Liquefaction Potential Assessment Considering Different Earthquake Magnitude for Rajshahi city, Bangladesh <i>A. Hossain, M. Ashikuzzaman, M. S. A. Salan</i>
CE_61	Seismic Analysis of RCC Building Resting on Sloping Ground with Varying Number of Hill Slopes <i>M. Hasan, N. H. M. K. Serker</i>
CE_98	Partial Replacement of Ceramic Tile Dust in Bituminous Mix <i>G. M. H. Rashid, A. A. Mamun, I. E. Epu</i>

**Technical Session-9****Date: February 7, 2019 (Thursday)****Venue: CE Building, Seminar Room-03****Time: 4:45 PM-6:00 PM****Session Chair: Prof. Dr. Md. Abdul Alim, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
CE_54	Effect of Peak Ground Acceleration on Liquefaction Behavior of Subsoil: A Case Study of Rajshahi City Corporation <i>A. Hossain, M. Ashikuzzaman, M. S. A. Salan</i>
CE_55	Seismic Stability of Slopes in Cohesive Soils <i>A. Hossain, M. A. A. Sadman, M. M. Rashid, M. Ashikuzzaman</i>
CE_56	Modelling of Support Vector Machine for the Prediction of California Bearing Ratio of Stabilized Soil <i>C. R. Animesh, I. M. Rafizul</i>
CE_79	Effect of Length to Diameter Ratio on the Load-Deflection Characteristics of Laterally Loaded Driven Piles in Sand <i>M. M. Sazzad, M. Ashikuzzaman, M. A. U. Roni, M. Ahamed</i>
CE_117	Consolidation Properties of Barind Soil in HC Stress Path Method <i>S. A. Mofiz</i>

**Keynote Session-2****Date: February 8, 2019 (Friday)****Venue: CE Building, Seminar Room-01****Time: 09:30 AM-10:30 AM****Session Chair: Prof. Dr. N. H. M. Kamrujjaman Serker, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Keynote Paper and Speaker</b>
KL_03	<b>Paper Title:</b> Ground Improvement Case Studies in Bangladesh <i>Speaker: Prof. Dr. Mehedi Ahmed Ansary, Dept. of Civil Engineering, BUET, Bangladesh</i>
KL_04	<b>Paper Title:</b> Irrigation Management System of BMDA: An Innovative Approach <i>Speaker: Md. Abdur Rashid, Executive Director, BMDA, Rajshahi, Bangladesh</i>

**Technical Session-10****Date: February 8, 2019 (Friday)****Venue: CE Building, Seminar Room-01****Time: 11:00 AM-12:15 PM****Session Chair: Prof. Dr. Md. Akhtar Hossain, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
CE_05	A Detailed Overview of Light Weight Deflectometer (LWD) <i>K. Roksana, T. Nawrin, S. Hossain</i>
CE_06	Public Transport Service a Menace in Dhaka City: Present Scenarios and the Way Forward <i>M. A. Islam, M. S. Hoque</i>
CE_30	Vibration Based Pavement Condition Monitoring Using Smartphone as a Sensor <i>S. Rana., Asaduzzaman, M. H. Bagha, B. Saha, M. G. Azam,</i>
CE_57	Effectiveness of Road Safety Measures on Rural Roads of Bangladesh <i>M. A. W. Khan</i>
CE_60	Accident Prediction by Using Poisson Regression for Unsignalised Junction in Khulna Metropolitan City, Bangladesh <i>M. E. Shaik, Q. S. Hossain</i>

**Technical Session-11****Date: February 8, 2019 (Friday)****Venue: CE Building, Seminar Room-02****Time: 11:00 AM-12:15 PM****Session Chair: Prof. Mohd. Abdus Sobhan, Dept. of Civil Engineering, RUET**

Paper ID	Title of Paper and Authors
CE_100	Short Term Traffic Flow Forecasting by Time Series Analysis <i>A. Hasnat , F. I. Rahman</i>
CE_101	A Brief Study on Capacity Loss at Major Rajshahi City Roads, Bangladesh <i>M. M. Islam, M. S. Islam, F. I. Rahman</i>
CE_123	Implementation of Automated Traffic Signal at the Intersections of Dhaka City and Its Effects <i>H. M. Ahsan, M. K. Islam, C. J. Ferdaush</i>
CE_124	Identifying the Suitable Alignment for the Proposed Dhaka Circular Railway <i>H. M. Ahsan, M. F. H. Shikder, W. Nourin</i>
CE_125	Modernizing Bangladesh Railway Signaling System <i>H. M. Ahsan, S. A. Rafat, S. Hossain</i>

**Technical Session-12****Date: February 8, 2019 (Friday)****Venue: CE Building, Seminar Room-03****Time: 11:00 AM-12:15 PM****Session Chair: Prof. Dr. Md. Kamruzzaman, Dept. of Civil Engineering, RUET**

Paper ID	Title of Paper and Authors
URP_02	An Analysis on Chronological Conversion of Urban Wetlands of Dhaka Metropolitan Area from 1990 to 2018 <i>R. B. Ishan, T. M. Intezar</i>
URP_07	Development Based on Regionalization: A Case Study of Formal and Functional Regionalization of Kishorganj, Brahmanbaria and Narshingdi District <i>S. B. Azam , M. W. Rahman</i>
URP_08	Determination of the Level of Service at Major Intersection: A Case Study in Pabna, Bangladesh <i>M. M. Khanam, M. Marufuzzaman</i>
URP_09	An Analysis of Existing Condition and Potentiality of Mango Based Industries in Rajshahi Division <i>N. Rahman, S. Rahman, S. Ahmed, A. M. R. Gafur</i>
URP_10	Exploring the Impact of Urban Development on Changing Surface Water body Area in Khulna City Corporation, Bangladesh Using GIS and RS Techniques <i>M. Marufuzzaman, M. M. Khanam, M. K. Hasan</i>



**Technical Session-13****Date: February 8, 2019 (Friday)****Venue: CE Building, Seminar Room-02****Time: 2:45 PM-4:15 PM****Session Chair: Prof. Dr. Md. Mahmud Sazzad, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
URP_12	Assessing the Spatial Distribution of Parks in Khulna City <i>S. M. Khan, Z. Salim</i>
URP_13	Identification of Factors Affecting the Visitor's Visit Rate to Padma Riverfront Area of Rajshahi City Corporation by Individual Travel Cost Method <i>N. Rahman, A. M. R. Gafur, M.A. Wakil, H. Mohiuddin</i>
URP_14	Exploring History and Heritage Sites and Promoting Tourism in Rajshahi City Corporation <i>N. Rahman, M. S. A. Salan, T. Ahmed</i>
URP_16	Analysis on Slum Housing Situation in Rajshahi and Dhaka City: A Proposal for Decent Shelter <i>S. A. Shanta, S. Afrin, M. Kamruzzaman</i>
URP_18	Parking Problem Analysis at the Town Center of Rangamati Municipality <i>M. Chakma, M. T. Hossain, M. A. Pramanik</i>
URP_23	An Analysis on the Vulnerable Effect of Climate Change on Children and Adaptation in Changing Situation in Darusha Union, Rajshahi District, Bangladesh <i>N. B. Nazir, N. A. Tonoy</i>

**Technical Session-14****Date: February 8, 2019 (Friday)****Venue: CE Building, Seminar Room-03****Time: 2:45 PM-4:15 PM****Session Chair: Dr. A. S. M. Zia Hasan, Dept. of Civil Engineering, RUET**

<b>Paper ID</b>	<b>Title of Paper and Authors</b>
ARCH_04	Community Based Cultural Tourism: An Attitude towards Sustainable Conservation Model for Heritage Site <i>S. Sharmin, N. M. Khan</i>
ARCH_07	Assessing the Impact of Street Frontage in Streetscape on the Quality of Public Gathering Space: A Case Study in Chittagong, Bangladesh <i>A. S. M. Ziad, M. Fahami, L. Fariha</i>
URP_27	Application of Urban Design Principles to Develop a Self-Contained Residential Unit that Shape the Urban Form: An Approach towards Neighborhood Development at Meherchandi, Rajshahi <i>S. Roy, N. A. Juy, A. Akter, N. Chowdhury</i>
URP_28	An Evaluation of Operational Characteristics of Public Transport System of Khulna- Jashore Highway: A Case Study on New Market to Shantidham <i>M. M. Hasan, M. R. Kabir, R. Hossain, F. S. Tasnim, Z. S. Promy</i>
URP_29	An Assessment on the Mobility of a Road Section Connecting Notun Rasta-Gollamari of Khulna City <i>M. R. Kabir, M. M. Hasan, R. Hossain, P. C. Das</i>
CE_71	Predicting Concrete Compressive Strength by Different Non-destructive Test and Semi Destructive Test Techniques <i>K. B. Nihar, D. Datta, M. T. Islam, M. S. Ali</i>