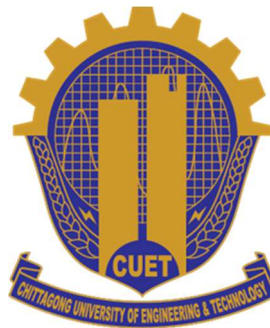




**7th International Conference on
Advances in Civil Engineering**

12-14 December 2024

Program Schedule



Organized by

Department of Civil Engineering
Chittagong University of Engineering & Technology

Conference Schedule



12-14 December 2024

Day 1: December 12, 2024 (Thursday)		
Time	Venue	Events
8:45-9:15	Academic Building- 1 (Civil building) Ground floor, Hydraulic Lab, Room: 1111	Registration
9:15-10:15	<u>Inaugural Ceremony of ICACE 2024</u>	
	<p>Chief Guest: Prof. Dr. Mohammad Tanzimuddin Khan, Member, University Grants Commission, Bangladesh.</p> <p>Guest of Honor: Prof. Dr. Mahmud Abdul Matin Bhuiyan, Vice-Chancellor, CUET Prof. Mohammad Mozammel Hoque, Ex Vice-Chancellor, CUET Prof Dr. Md. Jahangir Alam, Ex Vice-Chancellor, CUET</p> <p>Special Guest: Prof. Dr. Sudip Kumar Pal, Dean, Faculty of Civil and Environment Engg., CUET.</p> <p>Chair: Prof. Dr. Aysha Akter, Conference Chair, ICACE 2024</p> <p>Venue: <i>Central Auditorium, Chittagong University of Engineering & Technology (CUET)</i></p> <p>Zoom link: https://bdren.zoom.us/j/92062064013</p>	
10:15-10:30	Academic Building- 1 (Civil building)	Refreshment
10:30-12:00	Academic Building- 1 (Civil building, 1 st and 2 nd floor) Room No: 1201,1227,1228,1229,1301,1302,1343,1344	Parallel Technical Session (A1, B1, C1, D1, E1, F1, G1 and H1)
12:00-12:30	Seminar Room Academic Building- 1 (Civil building) Room No: 1202	<p style="text-align: center;"><i>Invited Speech-1</i></p> <p>Dr. Gregory D Costa Principal Academic in Engineering Open Polytechnic, New Zealand Theme: Climate Change, Its Impact on Coastal Areas and Civil Engineering Solutions.</p>
12:30-13:30	Academic Building- 1 (Civil building)	Prayer & Lunch Break
13:30-15:00	Academic Building- 1 (Civil building) Room No: 1201,1227,1228,1229,1301,1302,1343,1344	Parallel Technical Session (A2, B2, C2, D2, E2, F2, G2 and H2)
15:00-15:30	<p>Central Auditorium (Invited Speech-2) Chittagong University of Engineering & Technology</p> <p>Seminar Room (Invited Speech-3) Academic Building- 1 (Civil building) Room No: 1202</p>	<p style="text-align: center;"><i>Invited Speech-2</i></p> <p>Ms. Neeltje Kielen Delegated Representative Water Embassy of the Kingdom of the Netherlands in Bangladesh Theme: Transformations in Adaptive Delta Management.</p> <p style="text-align: center;"><i>Invited Speech-3</i></p> <p>Dr. Shams Tanvir Assistant Professor California State University, Long Beach Theme: Developing for a Sustainable Mobility Future Enhancements, Characterizations, and Integration of Emerging Technologies to Reduce Transportation Energy and Emissions.</p>

Conference Schedule



12-14 December 2024

Day 1: December 12, 2024 (Thursday)		
Time	Venue	Events
15:30-15:45	Academic Building- 1 (Civil building)	Coffee and Prayer Break
15:45-17:15	Academic Building- 1 (Civil building) Room No: 1201,1202,1227,1228,1229,1301,1302,1343,1344	Parallel Technical Session (A3, B3, C3, D3, E3, F3, G3, H3, and I3)

Day 2: December 13, 2024 (Friday)		
Time	Venue	Events
8:45-10:15	Academic Building- 1 (Civil building) Room No: 1201,1202,1227,1228,1229,1301,1302,1343,1344	Parallel Technical Session (A4, B4, C4, D4, E4, F4, G4, H4, and I4)
10:15-10:30	Academic Building- 1 (Civil building)	Coffee Break
10:30-11:30	Central Auditorium Chittagong University of Engineering & Technology	<i>Keynote Session-1</i> Dr. Scott Smith Professor, Faculty of Sciences, Engineering and Technology The University of Adelaide, Australia. Theme: Application of FRP Composites to Terrestrial and Extraterrestrial Environments.
11:30-12:30	Central Auditorium Chittagong University of Engineering & Technology	<i>Keynote Session-2</i> Dr. Ashutosh Sutra Dhar Professor Geotechnical & Infrastructure Engineering Faculty of Engineering & Applied Science Memorial University of Newfoundland Canada Theme: Integrity of Buried Pipelines under Geotechnical Loads.
12:30-13:00	Central Auditorium Chittagong University of Engineering & Technology	<i>Invited Speech-4</i> Dr. Raquib Ahsan Professor Department of Civil Engineering, BUET Theme: Code Evolution and Experimental Insights on High-Strength Steel Rebar.
13:00-14:30	Academic Building- 1 (Civil building)	Prayer & Lunch Break
14:30-16:00	Academic Building- 1 (Civil building) Room No: 1201,1202,1227,1228,1229,1301,1302,1343,1344	Parallel Technical Session (A5, B5, C5, D5, E5, F5, G5, H5, and I5)
16:00-16:15	Academic Building- 1 (Civil building)	Prayer & Coffee Break
16:15-17:45	Academic Building- 1 (Civil building) Room No: 1201,1202,1227,1228,1229,1301,1302,1343,1344	Parallel Technical Session (A6, B6, C6, D6, E6, F6, G6, H6, and I6)
17:45-18:00	Academic Building- 1 (Civil building)	Prayer & Coffee Break

Conference Schedule



12-14 December 2024

Day 2: December 13, 2024 (Friday)

Time	Venue	Events
18:00-21:00		<p><u><i>Closing Ceremony of ICACE 2024 & Conference Dinner</i></u></p> <p>Chief Guest: Prof. Dr. Mahmud Abdul Matin Bhuiyan, Vice-Chancellor, CUET</p> <p>Special Guest:</p> <ol style="list-style-type: none">1. Prof. Dr. Sudip Kumar Pal, Dean, Faculty of Civil and Environment Eng., CUET2. Engr. Md. Zalal Uddin Chowdhury, Chief Engineer, EED.3. Engr. Md. Moklesur Rahman, Managing Director, Contech Consultancy Ltd. <p>Chair: Prof. Dr. Md. Rabiul Alam, Technical Chair, ICACE 2024.</p> <p>Venue: <i>Central Auditorium, Chittagong University of Engineering & Technology (CUET)</i> Zoom Link: https://bdren.zoom.us/j/96527155268</p>

Day 3: December 14, 2024 (Saturday)

Time	Event
8:00-18:00	<p><u><i>Technical Tour</i></u></p>

Conference Overview



12-14 December 2024

Date	Time	Central Auditorium	Academic Building - 1 (Civil Building) Room No:									
			1111	1201	1202	1227	1228	1229	1301	1302	1343	1344
12-Dec-24, Thursday	8:45-9:15		Registration									
	9:15-10:15	Inaugural Ceremony										
	10:15-10:30		Refreshment									
	10:30-12:00			A1		B1	C1	D1		F1	G1	H1
	12:00-12:30				Invited Speech-1							
	12:30-13:30		Prayer & Lunch Break									
	13:30-15:00			A2		B2	C2	D2	E2	F2	G2	H2
	15:00-15:30	Invited Speech-2				Invited Speech-3						
	15:30-15:45		Coffee and Prayer Break									
	15:45-17:15			A3	I3	B3	C3	D3	E3	F3	G3	H3
13-Dec-24, Friday	8:45-10:15			A4	I4	B4	C4	D4	E4	F4	G4	H4
	10:15-10:30		Coffee Break									
	10:30-11:30	Keynote Session-1										
	11:30-12:30	Keynote Session-2										
	12:30-13:00	Invited Speech-4										
	13:00-14:30		Prayer & Lunch Break									
	14:30-16:00			A5	I5	B5	C5	D5	E5	F5	G5	H5
	16:00-16:15		Prayer & Coffee Break									
	16:15-17:45			A6	I6	B6	C6	D6		F6	G6	H6
	17:45-18:00		Prayer & Coffee Break									
18:00-21:00		Closing Ceremony & Conference Dinner										

Technical Sessions Summary

Date: 12-Dec-2024 (Thursday) & 13-Dec-2024 (Friday)

Modes of Presentation: I- (In-Person), O-(Online), M- (Online & Offline Hybrid)

Venue: Academic Building- 1 (Civil Building)

Room no	1201	1227	1228	1229	1301	1302	1343	1344	1202	
Sessions	A	B	C	D	E	F	G	H	I	Time & day
1	Structural Engineering (I) Chair: Prof. Mohammad Mozammel Hoque	Environmental Engineering (I) Chair: Prof. Dr. Asiful Hoque	Environmental Engineering (I) Chair: Prof. Dr. Sudip Kumar Pal	Structural Engineering (I) Chair: Prof. Dr. Md. Abul Hasan, DEM	---	Transportation Engineering (O) Chair: Dr. Md. Abdullah Al Mamun, ACE, RHD	Environmental Engineering (O) Chair: Prof. Dr. Md. Khalekuzzaman, KUET	Structural Engineering (O) Chair: Prof. Dr. Md. Nazrul Islam, DUET	---	10:30-12:00 (Thursday)
2	Structural Engineering (I) Chair: Prof. Dr. Md. Khasro Miah, DUET	Environmental Engineering (I) Chair: Prof. Dr. Md. Abdullah Yousof Al Harun	Water Resources Engineering (I) Chair: Prof. Dr. Md. Shahjahan Ali, KUET	Structural Engineering (I) Chair: Dr. Mahmudur Rahman	Geotechnical Engineering (I) Chair: Prof. Dr. Md. Aftabur Rahman	Water Resources Engineering (O) Chair: Prof. Dr. G. M. Jahid Hasan, MIST	Environmental Engineering (O) Chair: Prof. Dr. Amimul Ahsan, IUT	Structural Engineering (O) Chair: Prof. Dr. Md. Basir Zisan	---	13:30-15:00 (Thursday)
3	Structural Engineering (I) Chair: Prof. Dr. G. M. Sadiql Islam	Environmental Engineering (I) Chair: Prof. Dr. Md. Niamul Bari, RUET	Environmental Engineering (I) Chair: Dr. Gregory D Costa	Structural Engineering (I) Chair: Prof. Dr. Md. Rabiul Alam	Environmental Engineering (O) Chair: Prof. Dr. Gopal Chandra Ghosh, JUST	Transportation Engineering (O) Chair: Prof. Dr. Hasib Mohammed Ahsan, BUET	Environmental Engineering (O) Chair: Prof. Dr. Mst. Farzana Rahman Zuthi	Structural Engineering (O) Chair: Prof. Dr. Abu Zakir Morshed, KUET	Engineering Management (M) Chair: Prof. Dr. Asiful Hoque	15:45-17:15 (Thursday)
4	Structural Engineering (I) Chair: Prof. Dr. S. M. Zahurul Islam, RUET	Environmental Engineering (I) Chair: Prof. Dr. Md. Abul Hashem, KUET	Water Resources Engineering (I) Chair: Prof. Dr. Md. Reaz Akter Mullick	Structural Engineering (I) Chair: Prof. Dr. Md. Mozammel Hoque, DUET	Geotechnical Engineering (I) Chair: Prof. Dr. Md. Shajib Ullah	Transportation Engineering (O) Chair: Dr. Mohammad Shaheen Sarker, RHD	Environmental Engineering (O) Chair: Prof. Dr. Khondoker Mahbub Hassan, KUET	Structural Engineering (O) Chair: Prof. Dr. Bipul Chandra Mondal	Transportation Engineering (I) Chair: Prof. Dr. Swapan Kumar Palit	8:45-10:15 (Friday)
5	Structural Engineering (I) Chair: Prof. Dr. Raquib Ahsan, BUET	Environmental Engineering (I) Chair: Prof. Dr. Zahir Udding Ahmed, KUET	Water Resources Engineering (I) Chair: Prof. Dr. Md. Hazrat Ali	Structural Engineering (I) Chair: Prof. Dr. Nusrat Hoque	Environmental Engineering (O) Chair: Prof. Dr. Nehreen Majed, UAP	Water Resources Engineering (O) Chair: Prof. Dr. Md. Misbah Uddin, SUST	Environmental Engineering (O) Chair: Prof. Dr. Rowshan Mumtaz, BUET	Structural Engineering (O) Chair: Prof. Dr. Dr. Syed Ishtiaq Ahmad, BUET	Transportation Engineering (I) Chair: Prof. Dr. Swapan Kumar Palit	14:30-16:00 (Friday)
6	Structural Engineering (I) Chair: Prof. Dr. Md. Robiul Awall, RUET	Environmental Engineering (I) Chair: Prof. Dr. Md. Kamruzzaman, RUET	Water Resources Engineering (I) Chair: Prof. Dr. Md. Reaz Akter Mullick	Transportation Engineering (I) Chair: Prof. Dr. Swapan Kumar Palit	---	Water Resources Engineering (O) Chair: Prof. Dr. Munsur Rahman, IWF	Environmental Engineering (O) Chair: Prof. Dr. Muhammad Azizul Hoque, SUST	Geotechnical Engineering (O) Chair: Prof. Dr. Md. Rokonzaman, KUET	Transportation Engineering (I) Chair: Dr. Mursheda Rahman	16:15-17:45 (Friday)

All Zoom Links



12-14 December 2024

Session Title	Time	Day	Session Chair/ Speaker	Zoom Link
Inaugral Cermony	09:15-10:15	12-Dec-24	Prof. Dr. Aysha Akter	https://bdren.zoom.us/j/92062064013
F1	10:30-12:00	12-Dec-24	Dr. Md. Abdullah Al Mamun, ACE, RHD	https://bdren.zoom.us/j/95307962404
G1	10:30-12:00	12-Dec-24	Prof. Dr. Md. Khalekuzzaman, KUET	https://bdren.zoom.us/j/99473982054
H1	10:30-12:00	12-Dec-24	Prof. Dr. Md. Nazrul Islam, DUET	https://bdren.zoom.us/j/92381245845
F2	13:30-15:00	12-Dec-24	Prof. Dr. G. M. Jahid Hasan, MIST	https://bdren.zoom.us/j/96970027436
G2	13:30-15:00	12-Dec-24	Prof. Dr. Amimul Ahsan, IUT	https://bdren.zoom.us/j/97501611623
H2	13:30-15:00	12-Dec-24	Prof. Dr. Md. Basir Zisan	https://bdren.zoom.us/j/99848628565
E3	15:45-17:15	12-Dec-24	Prof. Dr. Gopal Chandra Ghosh, JUST	https://bdren.zoom.us/j/99853945276
F3	15:45-17:15	12-Dec-24	Prof. Dr. Hasib Mohammed Ahsan, BUET	https://bdren.zoom.us/j/94234311546
G3	15:45-17:15	12-Dec-24	Prof. Dr Mst. Farzana Rahman Zuthi	https://bdren.zoom.us/j/94836695980
H3	15:45-17:15	12-Dec-24	Prof. Dr. Abu Zakir Morshed, KUET	https://bdren.zoom.us/j/93122840294
I3	15:45-17:15	12-Dec-24	Prof. Dr. Asiful Hoque	https://bdren.zoom.us/j/91344030982
F4	8:45-10:15	13-Dec-24	Dr. Mohammad Shaheen Sarker, RHD	https://bdren.zoom.us/j/97121680150
G4	8:45-10:15	13-Dec-24	Prof. Dr. Khondoker Mahbub Hassan, KUET	https://bdren.zoom.us/j/95841409476
H4	8:45-10:15	13-Dec-24	Prof. Dr. Bipul Chandra Mondal	https://bdren.zoom.us/j/94701936497
Keynote Speaker-1	10:30-11:30	13-Dec-24	Prof. Dr. Scott Smith	https://bdren.zoom.us/j/99347493810
E5	14:30-16:00	13-Dec-24	Prof. Dr. Nehreen Majed, UAP	https://bdren.zoom.us/j/94923749858
F5	14:30-16:00	13-Dec-24	Prof. Dr. Md. Misbah Uddin, SUST	https://bdren.zoom.us/j/98510686823
G5	14:30-16:00	13-Dec-24	Prof. Dr. Rowshan Mumtaz, BUET	https://bdren.zoom.us/j/94276849622
H5	14:30-16:00	13-Dec-24	Prof. Dr. Dr. Syed Ishtiaq Ahmad, BUET	https://bdren.zoom.us/j/91812485386
F6	16:15-17:45	13-Dec-24	Prof. Dr. Munsur Rahman, IWFm	https://bdren.zoom.us/j/91630758767
G6	16:15-17:45	13-Dec-24	Prof. Dr. Muhammad Azizul Hoque, SUST	https://bdren.zoom.us/j/95070714733
H6	16:15-17:45	13-Dec-24	Prof. Dr. Md. Rokonzaman, KUET	https://bdren.zoom.us/j/95641728190
Closing Ceremony	18:00-21:00	13-Dec-24	Prof. Dr. Md. Rabiul Alam	https://bdren.zoom.us/j/96527155268

Assigned Session Summary



12-14 December 2024

Paper ID	Session	Paper ID	Session	Paper ID	Session	Paper ID	Session
9	E2	112	G1	198	F2	299	A5
11	B1	117	F2	200	F5	300	G2
14	G1	119	B1	202	G2	302	G2
15	C6	120	G1	210	F1	303	A3
16	F1	121	A1	212	F5	305	A3
18	E2	122	H1	213	I3	306	B2
24	E2	126	I5	215	A2	309	B2
25	F1	127	G1	216	A2	311	F1
32	D6	128	B1	217	G2	312	C2
33	A1	130	H1	218	B2	316	B2
34	A1	131	H2	219	D1	317	B2
37	F2	132	I3	221	C2	318	A3
38	H6	135	E2	224	D1	321	G3
43	B1	137	H6	226	E2	329	C2
46	E2	138	D5	230	H1	330	G3
47	G1	142	A2	231	H1	331	A3
49	D6	143	A2	234	G2	332	E4
55	D6	146	F2	235	G2	334	B2
57	B1	147	I3	236	A6	339	D2
58	B1	150	A2	237	H6	342	H6
69	F2	153	C4	239	G2	343	B3
70	B1	154	H1	240	H6	348	G3
72	A1	157	A5	244	F1	350	H2
73	D6	162	F1	251	E2	351	D4
75	F2	164	H1	254	F5	352	F5
76	F2	165	D2	258	A3	361	G3
77	A2	166	A2	259	F5	363	I5
80	F1	167	A1	260	E4	366	F1
81	D6	169	I5	261	H2	367	I5
83	C2	170	E2	263	G2	368	G3
84	C2	171	A2	269	C4	370	D5
85	C2	173	B2	270	C4	372	B3
89	A1	178	F2	272	H6	373	A3
92	A1	181	B5	273	C3	374	C4
93	C2	182	D6	275	H2	376	I4
94	D1	183	H1	276	H2	377	D6
96	B1	185	D4	277	F3	380	H2
97	G1	186	I5	283	D1	381	H1
98	D4	188	D1	287	D3	382	H5
101	D1	189	G1	290	C3	383	I3
104	B1	191	I5	291	G2	386	B3
105	D6	193	F2	294	I5	387	H5
107	G1	194	H6	295	A3	388	H2
108	F6	195	F2	297	C6	389	I3
111	H1	197	G1	298	I5	391	G3

Assigned Session Summary



12-14 December 2024

Paper ID	Session	Paper ID	Session	Paper ID	Session	Paper ID	Session
395	D2	502	H5	651	B5	795	H3
397	I6	503	B4	653	C4	797	F6
398	F5	504	B4	654	B5	799	F3
400	F5	505	H5	656	C5	802	B6
402	C4	506	C3	657	H4	804	B6
406	B3	507	G3	661	I3	809	G5
407	H5	508	B2	670	E5	819	E5
409	A3	512	G3	675	H3	820	G6
410	H5	517	G4	681	F3	823	D5
412	D2	521	B4	683	F3	826	A4
413	A5	524	F3	684	B5	827	H4
416	H3	525	A6	686	I6	829	D5
420	H2	528	G4	687	A4	838	B6
424	B3	529	F6	699	H3	851	G6
426	B3	531	F3	702	D3	857	A4
427	F5	533	G4	712	H3	859	H3
429	D2	534	C6	715	F3	860	A4
430	H6	535	E4	718	E5	863	H4
431	A3	541	C5	721	C3	865	H4
435	B3	551	A6	722	B6	867	G6
437	A3	553	A4	727	F6	868	F6
440	D2	555	G4	728	F3	872	G6
442	H5	557	F3	731	I6	878	C1
446	A1	561	A6	736	C1	879	G6
447	D2	563	B4	738	G5	888	F3
448	B3	566	H4	739	G5	891	D3
449	A6	577	C5	740	G5	892	G6
450	A6	584	H2	742	G5	893	G6
451	I3	586	B4	744	G5	896	G6
455	I6	588	G4	745	I6	903	E3
459	D3	589	G4	747	B6	905	D2
460	G3	592	G4	749	B6	907	E3
461	C4	593	B5	752	I3	909	A5
463	D3	601	H3	756	I4	915	E3
464	I6	604	D3	760	B6	919	C6
470	D3	605	G5	763	G5	920	A5
480	B3	608	A4	769	B6	921	C3
484	H2	613	I5	776	H5	922	F1
487	D4	619	G4	777	C5	923	H3
488	D2	628	G4	778	C6	928	H4
491	H6	630	B5	779	G5	930	I4
493	H5	631	C5	780	H3	934	E3
495	D3	635	B5	781	D3	939	C1
496	B2	644	B5	790	E4	940	A6
497	F5	646	C5	794	A6	943	F6

Assigned Session Summary



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Paper ID	Session	Paper ID	Session	Paper ID	Session	Paper ID	Session
945	F6	1118	D4				
951	E3	1122	C3				
957	A6	1123	D4				
960	E3	1124	G6				
976	F4	1125	F4				
978	C1	1126	F4				
984	D5	1128	F4				
988	E3	1148	D4				
989	A5	1149	B4				
990	C1	1153	B5				
994	A5	1154	E5				
997	H4	1155	E2				
1002	H4	1156	I4				
1003	B6	1158	I4				
1005	E3	1159	A5				
1017	F4	1160	D4				
1022	I3	1163	I4				
1023	C1	1164	A4				
1025	E3	1165	E4				
1029	D5	1166	B4				
1030	H6	1168	F1				
1033	I4	1169	A4				
1034	E5	1170	F6				
1038	I4	1171	H4				
1041	F4	1174	C5				
1042	D6	1175	C6				
1046	D5	1176	C2				
1049	C1	1177	I3				
1051	D1	1178	C3				
1057	B4	1179	D4				
1058	F4	1180	D5				
1062	A5	1181	C6				
1068	F6	1182	A1				
1072	H6	1183	D4				
1076	C1	1184	E5				
1099	F4	1185	E4				
1101	F4	1187	E5				
1105	B5	1188	A4				
1107	C3	1189	E4				
1108	C1	1190	A4				
1109	D1	1192	D1				
1110	E4	1193	C3				
1111	B4						
1112	D5						
1116	E5						

Keynotes and Invited Speech Schedule

Day 1: December 12, 2024 (Thursday)			
Time	Session Name	Details	
12:00-12:30	<i>Invited Speech-1 (In-Person)</i>	<p>Speaker Dr. Gregory D Costa Principal Academic in Engineering Open Polytechnic, New Zealand</p> <p>Session Chair Prof. Dr. Md. Hazrat Ali, CE, CUET</p> <p>Theme Climate Change, Its Impact on Coastal Areas and Civil Engineering Solutions</p> <p>Venue Seminar Room- 1202 (Academic Building-1)</p>	
15:00-15:30	<i>Invited Speech-2 (In-Person)</i>	<p>Speaker Ms. Neeltje Kielen Delegated Representative Water Embassy of the Kingdom of the Netherlands in Bangladesh</p> <p>Session Chair Prof. Dr. Aysha Akter, CE, CUET</p> <p>Theme Transformations in Adaptive Delta Management</p> <p>Venue Central Auditorium, CUET</p>	


Keynotes and Invited Speech Schedule

Day 1: December 12, 2024 (Thursday)			
Time	Session Name	Details	
15:00-15:30	<p><i>Invited</i></p> <p><i>Speech-2</i></p> <p><i>(In-Person)</i></p>	<p>Speaker Dr. Shams Tanvir Assistant Professor California State University, Long Beach</p> <p>Session Chair Prof. Dr. Swapan Kumar Palit, CE, CUET</p> <p>Theme Developing for a Sustainable Mobility Future Enhancements, Characterizations, and Integration of Emerging Technologies to Reduce Transportation Energy and Emissions.</p> <p>Venue Seminar Room- 1202 (Academic Building-1)</p>	

Keynotes and Invited Speech Schedule

Day 2: December 13, 2024 (Friday)			
Time	Session Name	Details	
10:30-11:30	<p><i>Keynote</i></p> <p><i>Session-1</i></p> <p><i>(Online)</i></p>	<p>Speaker Dr. Scott Smith</p> <p>Professor, Faculty of Sciences, Engineering and Technology The University of Adelaide, Australia.</p> <p>Session Chair Prof. Dr. Md. Jahangir Alam, CE, CUET</p> <p>Theme Application of FRP Composites to Terrestrial and Extraterrestrial Environments.</p> <p>Venue Central Auditorium, CUET</p> <p>Zoom Link https://bdren.zoom.us/j/99347493810</p>	
11:30-12:30	<p><i>Keynote</i></p> <p><i>Session-2</i></p> <p><i>(In-Person)</i></p>	<p>Speaker Dr. Ashutosh Sutra Dhar</p> <p>Professor Geotechnical & Infrastructure Engineering, Faculty of Engineering & Applied Science, Memorial University of Newfoundland Canada</p> <p>Session Chair Prof. Dr. Muhammad Abdur Rahman Bhuiyan, CE, CUET</p> <p>Theme Integrity of Buried Pipelines under Geotechnical Loads.</p> <p>Venue Central Auditorium, CUET</p>	

Keynotes and Invited Speech Schedule

Day 2: December 13, 2024 (Friday)			
Time	Session Name	Details	
12:30-13:00	<p><i>Invited Speech-4 (In-Person)</i></p>	<p>Speaker Dr. Raquib Ahsan Professor Department of Civil Engineering, BUET</p> <p>Session Chair Prof. Dr. Md. Moinul Islam, CE, CUET</p> <p>Theme Code Evolution and Experimental Insights on High-Strength Steel Rebar.</p> <p>Venue Central Auditorium, CUET</p>	

Technical Session Information



12-14 December 2024

Session: **A1**
 Session Chair: **Prof. Mohammad Mozammel Hoque**
 Room No: **1201**
 Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 10:30-12:00

Paper ID	Paper Title	Registered Authors
33	ENHANCING CONCRETE MECHANICAL PROPERTIES WITH 40MM 45-DEGREE ANGULAR GALVANIZED IRON (GI) FIBER REINFORCEMENT: EXPERIMENTAL INVESTIGATION AND ANALYSIS	Dip Chakraborty
34	ADVANCING CONCRETE ENGINEERING WITH 40MM 90-DEGREE ANGULAR GALVANIZED IRON (GI) FIBER REINFORCEMENT: EXPERIMENTAL INVESTIGATION AND ANALYSIS	Md. Shah Newaz Aftab Chayon
72	EXPERIMENTAL STUDY ON HEATPROOFING CAPACITY OF PERVIOUS CONCRETE PRODUCED FROM RECYCLED AGGREGATE	Shakil Ahmad Miraz Ahamed
89	ADVANCEMENTS IN BACTERIA-BASED SELF-HEALING CONCRETE FOR CRACK REPAIR: A REVIEW	Aiatullah
92	DEVELOPMENT OF GREEN CONCRETE BY POTENTIAL USE OF SUGARCANE BAGASSE ASH	Abdullahil Muhsee
121	STRUCTURAL PERFORMANCE ANALYSIS BETWEEN BRICK AND AUTOCLAVED AERATED CONCRETE BLOCK IN RESIDENTIAL BUILDING USING ETABS	Abdullahil Muhsee
167	EXPERIMENTAL STUDY ON EFFICIENCY OF GGBFS, FLY ASH, AND GLASS POWDER AS PARTIAL CEMENT REPLACEMENTS IN CONCRETE.	Ishika Mollik Md. Riduan
446	DEVELOPMENT OF GEOPOLYMER CONCRETE BLOCKS UTILIZING RICE HUSK ASH, SILICA FUME, SLAG AND GLASS POWDER	Mir Zubayer Mahmood Sumaya Hossain Arni Abu Shaid Leon
1182	POZZOLANIC REACTIVITY OF SEWAGE SLUDGE ASH (SSA) IN CEMENT-BASED SYSTEM	Md. Merajul Islam

Technical Session Information



Session: B1
Session Chair: Prof. Dr. Asiful Hoque
Room No: 1227
Presentation Mode: In-Person

Date: 12-Dec-24
Time: 10:30-12:00

Paper ID	Paper Title	Registered Authors
11	PRECISION RAINFALL MODELING THROUGH MACHINE LEARNING FOR MONTHLY DATA INSIGHTS IN BANGLADESH	Tarun Debnath Sanjoy Bhowal Pranta
43	AN ASSESSMENT OF SOUND LEVELS AT DIFFERENT LOCATIONS IN RAJSHAHI CITY: A GIS-BASED APPROACH	Md. Mohayminul Islam
57	ASSESSING LONG-TERM CLIMATE TRENDS IN RAJSHAHI DIVISION, BANGLADESH: AN EXTENSIVE ANALYSIS OF METEOROLOGICAL DATA	SAMANTA ALAM
58	ASSESSING LONG-TERM CLIMATE TRENDS IN RANGPUR DIVISION, BANGLADESH: AN EXTENSIVE ANALYSIS OF METEOROLOGICAL DATA	SAMANTA ALAM
70	DATA-DRIVEN INSIGHTS ON RAINWATER HARVESTING: EXPLORING SUSTAINABLE RESOURCE OF POTABLE WATER IN BANGLADESH	Naziat Binte Harun
96	SUITABILITY OF INCLUSION OF POLY-ETHYLENE TEREPHALATE (PET) PLASTIC AS PARTIAL REPLACEMENT OF FINE AGGREGATE AND COARSE AGGREGATE IN CONCRETE FROM THE PERSPECTIVE OF GLOBAL CARBON DI-OXIDE EMISSION – A REVIEW	Abdullah Muhammad Asif Ayon Mollik
104	NOISE-INDUCED ANNOYANCE DURING SCHOOL OPENING AND CLOSING HOURS IN CHATTOGRAM CITY, BANGLADESH	Hrithik Nath
119	EVALUATION OF HEAVY METAL ASSOCIATED RISKS IN SOILS OF AN UNPLANNED DUMPSITE: A PUBLIC HEALTH CONCERN	Hrithik Nath
128	SOIL EROSION ASSESSMENT USING THE RUSLE MODEL IN THE GANGES BASIN, RAJSHAHI	Md. Mohayminul Islam

Technical Session Information



Session: **C1**
 Session Chair: **Prof. Dr. Sudip Kumar Pal**
 Room No: **1228**
 Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 10:30-12:00

Paper ID	Paper Title	Registered Authors
736	ASSESSING THE IMPACTS OF GLOBAL WARMING ON TOTAL PRECIPITATION AND WIND SPEED IN SOUTH ASIA: A COMPARATIVE ANALYSIS UNDER SSP2-4.5 AND SSP5-8.5 SCENARIOS USING CMIP6 MODEL FORECASTS	Ronjan Kumar Paul
878	ASSESMENT OF NOISE LEVEL INSIDE VARIOUS TRANSPORTATION MODES INCLUDING MRT IN DHAKA CITY	Mehedi Hasan Sohan Ayon Mollik
939	ADDRESSING THE CHALLENGES IN TRANSITIONING AWAY FROM PLASTIC: INSIGHTS FROM OUTREACH EVENTS AND WORKSHOPS	MD. Ajjur Rahman Farjana Khan TRISA DAS
978	TEMPORAL AND SPATIAL VARIATION OF PARTICULATE MATTER (PM 2.5) ACROSS BANGLADESH	TANVIR AHAMED TONMOY Md. Shadman Sakib Chowdhury
990	SINGLE-USE PLASTIC WASTE GENERATION AND MANAGEMENT PRACTICES IN 31 NO. ALKARAN WARD OF CHATTOGRAM CITY	Saykat Das
1023	COMPARATIVE LIFE CYCLE ASSESSMENT OF RECYCLED MATERIALS FOR CARBON EMISSION REDUCTION	Zarin Anan Adeeba
1049	ASSESSMENT OF RAINWATER HARVESTING POTENTIAL OF 17 NO. WARD OF CHATTOGRAM CITY CORPORATION AREA	Md Mohsin Nur Mohammad Sabbir
1076	CONDITIONS OF POSSIBLE WATER SOURCES IN RAJSHAHI CITY CORPORATION	Md. Safwan Bin Minhaz Sumaia Ahmed Tithi
1108	WATER QUALITY ASSESSMENT OF MUHURI RIVER FOR ENVIRONMENTAL AND INDUSTRIAL APPLICATION	MD. SAIFUR RAHMAN

Technical Session Information



Session: **D1**
 Session Chair: **Prof. Dr. Md. Abul Hasan, DEM**
 Room No: **1229**
 Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 10:30-12:00

Paper ID	Paper Title	Registered Authors
94	VISUAL RATING (VR) FOR POTENTIAL SEISMIC VULNERABILITY ASSESSMENT OF EXISTING REINFORCED CONCRETE EDUCATIONAL BUILDINGS IN RAJSHAHI CITY CORPORATION	Ragib Noor Srijan
101	EXPERIMENTAL INVESTIGATION ON SIZE EFFECT OF CIRCULAR CONCRETE-FILLED STEEL TUBULAR COLUMNS	Israt Jahan Ema Md. Emadul Islam
188	ASSESSMENT OF THE COST-EFFECTIVENESS OF SEISMIC RETROFITTING AND RECONSTRUCTION FOR AN EXISTING GARMENT FACTORY BUILDING	SAFWAN AHMAD Abu Abrar Abdullah Labib Shafiqur Rahman Shafi
219	BEHAVIOUR OF SPECIAL MOMENT RESISTING FRAME AND DUAL SHEAR WALL-FRAME SYSTEM FOR A MODERATELY TALL SCHOOL BUILDING IN DIFFERENT SEISMIC ZONES IN BANGLADESH	Abu Abrar Abdullah Labib Shafiqur Rahman Shafi
224	LATERAL LOAD PERFORMANCE OF PARTIALLY BONDED SCRAP TIRE RUBBER PAD BASE ISOLATORS	MD Abdullah All Nayeem
283	REDUCING THE EFFECT OF EARTHQUAKE ON RESIDENTIAL BUILDING BY USING BASE ISOLATION WITH LEAD RUBBER BEARING (LRB) DAMPER	Mohammad Mohiuddin Mohammad Mohiuddin
1051	INVESTIGATION OF THE STRUCTURAL BEHAVIOR OF ECOFRIENDLY TIMBER-CONCRETE COMPOSITE (TCC) STRUCTURE	Imam Hossain Chowdhury
1109	PLANNING, ANALYSIS, AND DESIGN OF A 50-STORIED FRAMED TUBE COMMERCIAL BUILDING	Ankan Barua
1192	NUMERICAL ANALYSIS OF PRESTRESSED CONCRETE BRIDGE GIRDER USING ANSYS FINITE ELEMENT SOFTWARE	Sheikh Md Fahim Uddin

Technical Session Information



Session: **F1**
 Session Chair: **Dr. Md. Abdullah Al Mamun, ACE, RHD**
 Room No: **1302**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/95307962404>)**

Date: 12-Dec-24
Time: 10:30-12:00

Paper ID	Paper Title	Registered Authors
16	MODELING PUBLIC BUS DRIVERS PERSONAL ATTITUDE AND BELIEF TOWARD SAFE DRIVING PRACTICES	Md. Rakibul Hasan Nishat
25	INVESTIGATING THE SEVERITY OF BUS-PEDESTRIAN COLLISIONS IN DHAKA CITY, BANGLADESH	Md. Rakibul Hasan Nishat
80	ASSESSING SAFETY ISSUES IN SCHOOL ZONES OF URBAN AREAS IN BANGLADESH	Sabrina Afrin Sony
162	POTENTIAL USE OF EXISTING ASPHALT MATERIALS IN NEW ROAD SUB-BASE CONSTRUCTION IN SASEC ROAD CONNECTIVITY PROJECT-II	Harun-Ar-RAshid
210	ASSESSING THE FACTORS AFFECTING HORN USAGE OF PRIVATE CAR DRIVERS IN DHAKA CITY	Md. Hasanuzzaman
244	COMPARATIVE ANALYSIS OF MODE CHOICE BEHAVIOR OF RESIDENT AND NON-RESIDENT UNIVERSITY-GOING STUDENTS: A CASE STUDY IN RAJSHAHI DIVISION, BANGLADESH	Maidul Hasan
311	ANALYSIS AND CASE STUDY FOR THE COMPOSITE PAVEMENT IN BANGLADESH	Asik Kadir
366	BENEFITS AND CHALLENGES OF INTRODUCING ELECTRIC BUS IN URBAN AREAS OF DHAKA, BANGLADESH	Kashemun Nahar Zim
922	AN EMPERICAL STUDY ON ACCEPTANCE OF APP-BASED RIDE SHARING VEHICLES OVER NON-APP-BASED VEHICLES IN DHAKA CITY	MD. MOHAIMENUL ISLAM SOURAV
1168	MAPPING OF PERFORMANCE GRADE ASPHALT BINDER IN BANGLADESH	Samsuddin Ahmed

Technical Session Information



Session: **G1**
Session Chair: **Prof. Dr. Md. Khalekuzzaman, KUET**
Room No: **1343**
Presentation Mode: **Online (<https://bdren.zoom.us/j/99473982054>)**

Date: 12-Dec-24
Time: 10:30-12:00

Paper ID	Paper Title	Registered Authors
14	A COMPARATIVE ANALYSIS OF THREE WASTE MATERIALS IN CONCRETE BLOCK	Md. Tareq Rahman
47	ASSESSMENT OF HEAVY METAL LEVELS ON FRUIT SURFACES: IMPLICATIONS FOR PUBLIC HEALTH	Al Zobaer Shohas
97	FORECASTING AIR QUALITY INDEX IN SYLHET: A COMPARATIVE STUDY OF MACHINE LEARNING AND DEEP LEARNING MODELS	Abu Sadat Md. Saim
107	IN-SITU MEASUREMENTS AND PREDICTION MODELS FOR METHANE GAS GENERATION FROM OPEN DUMPSITE: A CRITICAL REVIEW AND IMPLICATION	Md. Tushar Ali
112	TEMPORAL TRENDS AND GIS-BASED ANALYSIS OF URBAN HEAT ISLAND INTENSITY IN DHAKA AND ITS ADJACENT AREAS	Medhary Mizan Mim Farah Faizah Bristy
120	REVIEW ON PLASTIC WASTE PYROLYSIS: A PROMISING PATHWAY OF FUEL GENERATION AND RENEWABLE ENERGY	Tasnim Zahan
127	LEVERAGING MULTI-STEP ENSEMBLE METHODS FOR ENHANCED SOLAR RADIATION MODELLING IN DHAKA, BANGLADESH	Mohammad Taffhimul Hasan
189	EVALUATION OF SANITATION FACILITIES IN PRIMARY SCHOOLS: INSIGHTS FROM RAJSHAHI CITY CORPORATION, BANGLADESH	Md Rownak Afroz
197	SPATIO-TEMPORAL ASSESSMENT OF WETLAND CHANGE AND ITS IMPACT ON ECOSYSTEM SERVICES VALUE IN DHAKA METROPOLITAN AREA USING GEOSPATIAL TECHNIQUE	Mohammad Mobashir Abedin Shifaen

Technical Session Information



12-14 December 2024

Session: **H1**
 Session Chair: **Prof. Dr. Md. Nazrul Islam, DUET**
 Room No: **1344**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/92381245845>)**

Date: 12-Dec-24
Time: 10:30-12:00

Paper ID	Paper Title	Registered Authors
111	A COMPARISON OF THE DURABILITY PROPERTIES OF FOAM CONCRETE PREPARED WITH SYNTHETIC AND PROTEIN BASED FOAMING AGENT	Saad Kaiyum Kishore
122	ASSESSING THE STATE OF CONSTRUCTION SAFETY PERFORMANCE IN BANGLADESH: A CASE STUDY OF RAJSHAHI DIVISION	Saif Muhammad Nasrun Nabi
130	FAILURE PREDICTION OF A DESIGNED MAGNETIC VIBRATION ABSORBER	Sribash Das
154	EXPLORATORY STUDY ON WASTE CERAMICS AS COARSE AGGREGATE IN CONCRETE PRODUCTION	Habiba Rashid
164	IMPLEMENT AND QUALITY TEST FOR THE PAVEMENT QUALITY CONCRETE USED IN SASEC ROAD CONNECTIVITY PROJECT-II, TECHNICAL LITERATURE REVIEW OF WORKING PACKAGE 10	Harun-Ar-RAshid
183	COMPARATIVE ANALYSIS OF LOW-VELOCITY IMPACT ON PRESSURIZED UPVC PIPES: EXPERIMENTAL AND FINITE ELEMENT SIMULATION	Md Rownak Afroz
230	A COMPARATIVE STUDY OF UTILIZING VARIOUS BRACING SYSTEMS TO ANALYZE THE SEISMIC ACTIVITY OF A RESIDENTIAL BUILDING	Arnob Sarker
231	COMPARATIVE STUDY OF SEISMIC ANALYSIS OF A RESIDENTIAL BUILDING WITH VARIOUS EARTHQUAKE-RESISTING TECHNIQUES USING ETABS 2021	Arnob Sarker
381	STRUCTURAL EVALUATION OF MASS IRREGULARITY ON HIGHRISE RC FLAT PLATE STRUCTURE FOR ROOFTOP GARDENING IN DHAKA CITY	Md. Abdul Khaled Sayed Anisur Rahman

Technical Session Information



Session: **A2**
Session Chair: **Prof. Dr. Md. Khasro Miah, DUET**
Room No: **1201**
Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
77	STRENGTH CHARACTERISTICS OF ECO-FRIENDLY CONCRETE MIX WITH WASTE CERAMIC MATERIALS AS COARSE AGGREGATE	Mithun Chakrabartty
142	A STUDY ON THE STRENGTH DEVELOPMENT OF FLY ASH CONCRETE IN SULPHATE ENVIRONMENT	Sanjida Afrin
143	CRACK WIDTH PREDICTION OF SELF-HEALING CONCRETE USING MACHINE LEARNING APPROACHES	Shuvo Dip Datta
150	MECHANICAL CHARACTERIZATION OF SANDCRETE BLOCK	Zahidul hoque Joy
166	EXPERIMENTAL ANALYSIS OF ECO-FRIENDLY CONCRETE USING SNAIL SHELL POWDER	Tausif Islam Chowdhury
171	INVESTIGATING THE SUSTAINABLE IMPACTS OF REPLACING COARSE AGGREGATES WITH E-WASTE PLASTIC: AN EXPERIMENTAL STUDY	MD MUSHARROF HOSSAIN SUNNY
215	SUSTAINABILITY EVALUATION OF BACTERIA-INDUCED RECYCLED CONCRETE EMPHASIZING COMPRESSIVE STRENGTH AND COST EFFICIENCY	Syed Riaz Mahmud Saptarshi Dev Muhammad Imtiaz Hossain
216	USE OF CRUSHED BRICK POWDER AND RECYCLED AGGREGATE IN CONCRETE	Md. Kawsarul Islam Kabbo

Technical Session Information



Session: **B2**
Session Chair: **Prof. Dr. Md. Abdullah Yousuf Al Harun**
Room No: **1227**
Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
173	ENERGY-EFFICIENT BUILDING DESIGN IN SUBTROPICAL CLIMATES: A BIM-BASED APPROACH USING AUTODESK REVIT	Mst. Suraiya Afrin
218	IMPACT OF SUGAR MILLS WASTEWATER ON THE GROUNDWATER QUALITY NEAR MILLS AREA	Fariha Nazneen Tisha Md. Aminur Rahman
306	EVALUATION OF ENVIRONMENTAL AND HUMAN HEALTH IMPACTS OF LANDFILL LEACHATE IN KHULNA: A COMPREHENSIVE REVIEW	Prangon roy Ashiqur Rahman Sagor Halder
309	A COMPREHENSIVE STUDY ON THE HYDROLOGICAL SYSTEM OF KHULNA CITY FOR ENHANCED DRAINAGE SOLUTIONS AT KUET CAMPUS	Raisa Tabassum
316	ANALYZING LAND USE LAND COVER (LULC) EFFECTS ON LAND SURFACE TEMPERATURE (LST) USING REMOTE SENSING & GIS - A CASE STUDY ON NARAYANGANJ DISTRICT	Rana Hamid
317	AN INVESTIGATION OF FINE PARTICULATE MATTERS IN METRO RAIL AND STATIONS ALONG MRT LINE-6 OF DHAKA, BANGLADESH	Tasnia Tabassum Anika
334	MACHINE LEARNING TECHNIQUES FOR AIR QUALITY ANALYSIS AND FORECASTING: A STUDY ON NARAYANGANJ CITY, BANGLADESH	Rana Hamid
496	ASSESSING ECOSYSTEM SERVICES IN EASTERN COASTAL REGION OF BANGLADESH BASED ON LAND USE AND LAND COVER CHANGE	Sharfaraj Khadem
508	USABILITY AND STORM WATER QUALITY IMPROVEMENT CAPABILITY OF RECYCLED PERVIOUS CONCRETE	Inzamam-ul-Haque

Technical Session Information



Session: **C2**
 Session Chair: **Prof. Dr. Md. Shahjahan Ali, KUET**
 Room No: **1228**
 Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
83	POTENTIALITY OF COUPLING HYBRID EMD-HILBERT TRANSFORM INTEGRATION FOR ENHANCING SHORT-TERM PRECIPITATION MODELING IN SATKHIRA, BANGLADESH	Nasrin Sultana
84	HYBRID INTEGRATION OF A DISCRETE WAVELET TRANSFORM WITH THE DECISION TREE FOR ENHANCING METEOROLOGICAL PRECISION	Aiatullah
85	INTEGRATING WT-SVM WITH GIS AND REMOTE SENSING FOR RIVER MORPHOLOGY MODELLING	Nasrin Sultana
93	HYDRODYNAMIC AND MORPHOLOGICAL RESPONSE OF DREDGING AT THE INNER BAR AREA OF PUSSUR RIVER IN BANGLADESH	Motiur Rahman
221	MODELING THE URBAN WATER BALANCE: QUANTIFYING THE EFFECTS OF LAND USE CHANGE ON RUNOFF AND RECHARGE IN SYLHET CITY OF BANGLADESH	Dipta Prahar Dutt
312	SECURING DHAKA'S WATER FUTURE: A HOLISTIC ASSESSMENT USING DEPENDABLE FLOW ANALYSIS, ENVIRONMENTAL FLOW ANALYSIS, AND WATER QUALITY INDEX	Md. Sadbir Rahman Md. Sohanur Rahman Prince
329	FLOOD INUNDATION MAPPING OF PUSSUR-SHIBSA RIVER SYSTEM USING HEC-RAS	M. Mubtasim Fuad Dip
1176	ASSESSING FREE HALIDE CONCENTRATION IN SUPPLY WATER OF CHATTOGRAM CITY	S. M. Farzin Hasan Farjana Khan

Technical Session Information



12-14 December 2024

Session: **D2**
Session Chair: **Dr. Mahmudur Rahman**
Room No: **1229**
Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
165	COST OPTIMIZATION OF RC FRAME BUILDINGS UTILIZING PERFORMANCE BASED SEISMIC DESIGN	MD ZAHIDUL ISLAM
339	EARTHQUAKE ANALYSIS IN A MULTISTORIED RCC BUILDING WITH VARIOUS SEISMIC RESISTANT STRUCTURAL SYSTEMS	Alok Chandra Dey
395	MACHINE LEARNING TECHNIQUES TO PREDICT THE PERFORMANCE OF FIBER-INFUSED SELF-COMPACTING CONCRETE	Ayan Saha
412	SUGAR-PALM FIBER REINFORCED POLYMER (SFRP) LAMINATE FOR SHEAR STRENGTHENING OF RC BEAM	Md. Mehedi Hasan Polash
429	A COMPARATIVE ANALYSIS OF THE EFFICACY OF BASE ISOLATION TECHNIQUES IN A BUILDING USING RESPONSE SPECTRUM ANALYSIS	Abhishek Sarkar
440	SHEAR STRENGTHENING OF RC BEAM USING EXTERNALLY BONDED CFRP LAMINATE WITH EMBEDDED BAR ANCHOR	Lt Col Md Mehedi Hasan
447	EFFECT OF BONDED AREA AND ANCHOR SIZE ON BOND STRENGTH OF EXTERNALLY BONDED CFRP LAMINATE	Md. Mehedi Hasan Polash
488	BEHAVIOUR OF STAINLESS-STEEL BEAM-TO-COLUMN BOLTED CONNECTIONS: SIMPLIFIED FE MODEL ENHANCED BY ABAQUS PYTHON SCRIPTING	Md. Ibrahim Kholil Rokibul Hossain Titu
905	IMPACT OF BNBC CODE-SPECIFIED RESPONSE REDUCTION FACTORS ON DIFFERENT RCC MOMENT-RESISTING FRAMES IN ZONE 3	NIHAL MOHAMMED SWARIT

Technical Session Information



Session: E2
Session Chair: Prof. Dr. Md. Aftabur Rahman
Room No: 1301
Presentation Mode: In-Person

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
9	A COMPARATIVE STUDY ON THE LIQUEFACTION ASSESSMENT FOR RAJSHAHI CITY CORPORATION, BANGLADESH	Mahfuza Akter Abdus Salam
18	OPTIMIZING CONCRETE REINFORCEMENT WITH LOCALLY SOURCED GALVANIZED IRON FIBERS AND RECYCLED AGGREGATES FOR ENHANCED MECHANICAL PROPERTIES	Dip Chakraborty
24	A COMPREHENSIVE STUDY OF SOIL CLASSIFICATION AND IDENTIFICATION USING DEEP MACHINE LEARNING ALGORITHM BASED ON SOIL IMAGES	Praty Goswami Md. Aminur Rahman
46	ASSESSING FIBER-REINFORCEMENT FOR REDUCTION OF DESICCATION-INDUCED CRACKING OF EMBANKMENT SOIL	Shriful Islam
135	INFLUENCE OF NANOMATERIAL IN SOFT SOIL STABILIZATION: NANOSILICA & NANOCCLAY	Tausif Islam Chowdhury
170	IMPROVEMENT OF CLAYEY SOILS' PHYSICAL AND MECHANICAL PROPERTIES BY UTILIZING WOOD ASH AND CALCIUM CHLORIDE	MD MUSHARROF HOSSAIN SUNNY
226	BIO-CEMENTATION OF RIVER SAND USING BACILLUS SUBTILIS	Paromita Datta Ray
251	A NUMERICAL ANALYSIS OF THE BEHAVIOR OF SINGLE PILE IN UNSATURATED SOIL CONDITION	Sadia Shahadat Omi
1155	FIELD INVESTIGATIONS AND NUMERICAL ANALYSIS OF FLOATING STONE COLUMNS IN SOFT CLAY	Mr. Nibir Rahman

Technical Session Information



Session: **F2**
 Session Chair: **Prof. Dr. G. M. Jahid Hasan, MIST**
 Room No: **1302**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/96970027436>)**

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
37	A GIS-AHP TECHNIQUE TO ASSESS THE FLOOD SUSCEPTIBILITY: A CASE STUDY ON BHOLA DISTRICT	Md. Masud Rana
69	WATER USE PATTERNS OF DIFFERENT DOMESTIC ACTIVITIES OF LOW-INCOME GROUP HOUSEHOLDS IN THREE DIFFERENT AREAS OF DHAKA SOUTH CITY CORPORATION	Rifat Mahmud Rudra
75	ESTIMATION OF TURBIDITY AND SUSPENDED SEDIMENT CONCENTRATION OF TWO MAJOR RIVERS OF SUNDARBANS USING REMOTE SENSING TECHNIQUES	Prof. Dr. G. M. Jahid Hasan Prof. Dr. G. M. Jahid Hasan
76	WATER USE PATTERNS FOR DOMESTIC ACTIVITIES AMONG LOW-INCOME GROUP HOUSEHOLDS IN DHAKA NORTH CITY CORPORATION: AN ANALYSIS	Ejaj Uddin
117	SLOPE STABILITY ANALYSIS OF RIVERINE SOIL: A COMPREHENSIVE STUDY ON TEESTA RIVER	Pranto Kumar Shaha
146	A GIS-BASED MODIFIED DRASTIC MODEL FOR ASSESSING GROUNDWATER VULNERABILITY IN TONGI, GAZIPUR DISTRICT OF BANGLADESH	Md. Mahmudur Rahman
178	ALTERNATIVE SOURCE OF WATER USING ATMOSPHERIC WATER GENERATOR BY USING THERMOELECTRIC COOLING METHOD AND ITS POTENTIAL USE FOR SUSTAINABLE DEVELOPMENT OF BANGLADESH	Ayed Anowar
193	RAPID ASSESSMENT OF SHORELINE CHANGES INDUCED BY RECENT TROPICAL STORMS SITRANG, AMPHAN & VIYARU: A CASE STUDY IN SAINT MARTIN ISLAND	Mariah Hossain
195	MAPPING THE UNSEEN: A GIS-BASED ANALYSIS OF FLOOD INUNDATION IN SYLHET	Md. Tasin Raihan
198	DEEP LEARNING-BASED WATER LEVEL FORECASTING FOR THE SURMA RIVER BASIN IN BANGLADESH: INTEGRATING LSTM NETWORKS WITH HYDROLOGICAL AND METEOROLOGICAL DATA	Mahin Saleh

Technical Session Information



Session: **G2**
Session Chair: **Prof. Dr. Amimul Ahsan, IUT**
Room No: **1343**
Presentation Mode: **Online (<https://bdren.zoom.us/j/97501611623>)**

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
202	A STUDY ON THE PERFORMANCE OF DIFFERENT ORGANIZATIONS INVOLVED IN PRIMARY SOLID WASTE MANAGEMENT IN KHULNA CITY	Nahida Islam Midula
217	GABION WALL DESIGN: AN ECO-FRIENDLY SOLUTION FOR LANDSLIDE PREVENTION IN THE KUTUPALONG REFUGEE CAMP	Tausif Rahman Rafi
234	SELF-AERATED COMPOST PREPARATION TECHNIQUE USING ORGANIC WASTE	Abdullah Al Based
235	UNVEILING FLOOD HAZARD SUSCEPTIBILITY IN THE JAMUNA RIVER BASIN, BANGLADESH: AN INTEGRATED GEOSPATIAL ANALYSIS APPROACH	Abdullah Al Based
239	IDENTIFICATION AND SEASONAL FLUCTUATION OF GENERATED PLASTIC WASTE FROM LOCAL SHIPS AT MONGLA PORT	Md. Al Amin
263	ASSESSMENT OF MUNICIPAL SOLID WASTE GENERATED FROM SOME SELECTED INSTITUTIONS IN KHULNA CITY	S M ABDULLAH
291	OVERVIEW OF KITCHEN WASTE SCENARIO IN KHULNA DISTRICT AND SCOPE OF LIQUID BIOFUEL PRODUCTION	Md. Jobayer Parvez ratul
300	A REMOTE SENSING BASED APPROACH FOR IDENTIFICATION & MONITORING OF SPATIOTEMPORAL CHANGES IN THE URBAN ECOLOGICAL LIVABILITY OF CHATTOGRAM CITY CORPORATION (CCC) AREA	Rizbina Reduan Rayma
302	EFFECTIVENESS OF MORINGA OLEIFERA AND MAHOGANY IN WATER TREATMENT IN BANGLADESH – A REVIEW	Dr. Syed Abdul Mofiz

Technical Session Information



Session: **H2**
 Session Chair: **Prof. Dr. Md. Basir Zisan**
 Room No: **1344**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/99848628565>)**

Date: 12-Dec-24
Time: 13:30-15:00

Paper ID	Paper Title	Registered Authors
131	PROPERTIES OF BRICK AGGREGATE CONCRETE CONTAINING FLY ASH AND RICE HUSK ASH	Md. Nazrul Islam
261	NUMERICAL SIMULATION OF FULLY ENCASED COMPOSITE COLUMN WITH HIGH STRENGTH CONCRETE	Mohd. Mojahidul Islam
275	AN INNOVATIVE MACHINE LEARNING APPROACH TO PREDICT THE COMPRESSIVE STRENGTH OF CONCRETE BY INCORPORATING POLYMER-BASED ADDITIVES	Mita Khatun
276	ASSESSMENT OF COMPRESSIVE STRENGTH OF ULTRA-HIGH PERFORMANCE FIBER REINFORCED CONCRETE USING MACHINE LEARNING TECHNIQUES	Mita Khatun
350	HEAT RESILIENT BUILDINGS: THE FUTURE NEED FOR GENERATIONS	Atonu Saha
380	EVALUATING THE EFFECT OF MIX PROPORTIONS ON THE MECHANICAL PROPERTIES OF ENGINEERED CEMENTITIOUS COMPOSITE	M.A. Muyeed
388	PHYSICAL AND THERMAL PROPERTIES OF EXPANDED POLYSTYRENE BEADS CONCRETE BRICK USING SILICA FUME	Abu Shad
420	EXPLORING FIBER LENGTH EFFECTS ON ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE MECHANICAL ATTRIBUTES	Mahmuda Monwar
484	PREDICTING COMPRESSIVE STRENGTH OF HIGH-STRENGTH LIGHTWEIGHT CONCRETE INCORPORATED WITH NANOMATERIALS USING MACHINE LEARNING APPROACH	Md. Mostakim Hossain Rony
584	POTENTIALITY OF PINEAPPLE LEAF FIBER IN BANGLADESH: FROM WASTE TO HIGH PERFORMANCE GREEN CONCRETE	Md. Nymuzzaman Saikat

Technical Session Information



Session: A3
Session Chair: Prof. Dr. G. M. Sadiqul Islam
Room No: 1201
Presentation Mode: In-Person

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
258	EFFECTIVENESS OF SULPHATE-RESISTANT CEMENT CONCRETE IN SALINE ENVIRONMENTS: A COMPARATIVE STUDY WITH ORDINARY PORTLAND CEMENT	Ayan Saha
295	AN EXPERIMENTAL INVESTIGATION ON THE PROPERTIES OF GEOPOLYMER STEEL SLAG BRICK	Ififah Binte Khaled
303	AN EXPERIMENTAL INVESTIGATION OF THE STRUCTURAL BEHAVIOR OF HYBRID FIBER REINFORCED CONCRETE: EMPHASIZING ENVIRONMENTAL AND ECONOMIC EFFECTS	Mubashira Iffat Meem
305	CERAMIC WASTE AS A SUSTAINABLE BUILDING MATERIAL: A COMPREHENSIVE REVIEW	Sabbir Ahmed Siddiki
318	COMBINED INFLUENCE OF EGGSHELL POWDER AND POLYPROPYLENE FIBER ON FRESH AND MECHANICAL PROPERTIES OF NORMAL STRENGTH CONCRETE	Samiha Islam
331	THE EFFECTS OF SUGARCANE BAGASSE ASH AND WOOD ASH ON BRICK PERFORMANCE	Md. Nur Alam Riad
373	OPTIMIZING RECYCLED AGGREGATE CONCRETE STRENGTH THROUGH SURFACE TREATMENTS AND MACHINE LEARNING	Faruque Abdullah
409	BEHAVIOR OF GALVANIZED IRON FIBER REINFORCED RUBBERIZED CONCRETE	TAUHIDUL ISLAM
431	ENHANCING CONCRETE MECHANICAL PERFORMANCE THROUGH METAKAOLIN AND IMPROVED RECYCLED CONCRETE AGGREGATES	MUHAMMAD MUSHFIQR RAHMAN MD. SAKHAWAT HOSSAIN
437	INVESTIGATING FRESH AND HARDENED PROPERTIES OF HIGH STRENGTH CONCRETE USING COAL BOTTOM ASH AND SILICA FUME	MD. SAKHAWAT HOSSAIN MUHAMMAD MUSHFIQR RAHMAN

Technical Session Information



Session: **B3**
 Session Chair: **Prof. Dr. Md. Niamul Bari, RUET**
 Room No: **1227**
 Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
343	DETECTING MARINE PLASTIC DEBRIS WITH SENTINEL SATELLITE DATA: A MACHINE LEARNING APPROACH	MD Abdullah All Nayeem
372	LEVERAGING AI AND IOT FOR SUSTAINABLE WASTE MANAGEMENT: A FRAMEWORK FOR BANGLADESH	Fahim Montasir
386	ON-SITE ENERGY PRODUCTION BY WASTE WATER IN HIGH-RISE BUILDINGS	MD. TANVIR ANZUM
406	EVALUATING THE EFFECTS OF MICROPLASTICS IN SURFACE WATER SOURCES AT RAJSHAHI CITY	SHOWMIK SARKAR
424	A REVIEW PAPER ON BIO RECEPTIVE FAÇADE DESIGN FOR HOT HUMID CLIMATE	FARIA ISLAM
426	UNVEILING AIR QUALITY DYNAMICS IN BANGLADESH AND IT'S CROSS-BORDER IMPACT	MOST. SHUBORNA KHATUN
435	ANALYSIS OF SURFACE RUNOFF REDUCTION WITH LOW IMPACT DEVELOPMENT ON AN URBAN WATERSHED USING SWMM5	shanzida akter soma Gourob Banik
448	PROPOSED WATERLOGGING FREE UNDERGROUND CHARGED CITY	Nazmus Sakib
480	IDENTIFICATION OF KEY PERFORMANCE INDICATORS AND ASSESSMENT OF WATER NETWORK PERFORMANCE IN ROHINGYA REFUGEE CAMPS IN BANGLADESH	Md. Sadbir Rahman

Technical Session Information



Session: **C3**
 Session Chair: **Dr. Gregory D Costa**
 Room No: **1228**
 Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
273	VARIABILITY OF RAINFALL IN THE NORTH-EASTERN REGION OF BANGLADESH: TRENDS AND PROBABLE IMPACTS	Sabbid Ibnul Gafur Shuvo Md. Sohanur Rahman Prince
290	CLIMATE RESILIENCE IN URBAN BANGLADESH WITH GREEN ROOFS AS A SOLUTION TO INCREASING HEAT WAVES	Naziat Binte Harun
506	FLOOD INUNDATION PREDICTION FOR BANGALI RIVER BASIN USING HEC-HMS AND HEC-RAS	Sameer Mahmud Khan
721	EL NIÑO-SOUTHERN OSCILLATION (ENSO)'S ROLE IN BANGLADESH'S CLIMATE VARIABILITY AND EXTREME EVENTS	Sajib Sarker
921	A REVIEW ON THERMAL PERFORMANCE OF INSULATING NONWOVEN MATERIALS USING RECLAIMED FIBRES	Mehedi Hasan FARIA ISLAM
1107	FLOOD INUNDATION MODELING FOR AN UNGAUGED FOOTHILL WATERSHED IN COX'S BAZAR	MD. SAIFUR RAHMAN
1122	STUDY ON WATER SUPPLY SYSTEM AND ASSOCIATED HEALTH RISKS IN GAZIPUR CITY AREA	Rahat Mostofa Prantor Alvi Masud Jagoron Hasan Faisal Niloy
1178	RELATIONSHIP BETWEEN AIR QUALITY, LAND USE PATTERNS, AND CLIMATIC CONDITIONS: A CASE STUDY OF CHATTOGRAM CITY	Mst. Farzana Rahman Zuthi
1193	CLIMATE CHANGE IMPACT ON FUTURE IRRIGATION WATER REQUIREMENT IN BANDARBAN, BANGLADESH	Md. Tamim

Technical Session Information



Session: **D3**
Session Chair: **Prof. Dr. Md. Rabiul Alam**
Room No: **1229**
Presentation Mode: **In-Person**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
287	FLOW AROUND BLUFF BRIDGE DECK WITH FLAP: EFFECT OF ANGLE OF ATTACK	Shaikh Zamiul Ahmed Zishan
459	A COMPARATIVE ANALYSIS USING BRICK CHIPS CONCRETE IN STRONG STOREY AND STONE CHIPS CONCRETE IN SOFT STOREY	Md. Safwan Bin Minhaz Prof. Dr. Md. Robiul Awall
463	EXTERNALLY BONDED CFRP LAMINATE WITH EMBEDDED DOUBLE CONNECTOR ANCHOR FOR EFFECTIVE SHEAR STRENGTHENING OF RC BEAM	Md Delwar Hossain Talukder
470	PROPOSED APPROACH FOR SEISMIC EVALUATION OF EXISTING UNREINFORCED MASONRY BUILDINGS	Sohel Rana
495	DYNAMIC ANALYSIS OF THE HYPERBOLIC COOLING TOWER AT ROOPPUR NUCLEAR POWER PLANT	Intekhab Uddin Ahmad Chy
604	NUMERICAL INVESTIGATION OF FLEXURE STRENGTHENING OF RC BEAM USING FSM TECHNIQUE	Shaikh Zamiul Ahmed Zishan
702	A NUMERICAL APPROACH FOR PREDICTING DISTORTION STRESS IN CURVED COMPOSITE TWIN I-GIRDER BRIDGE	Tajreen Tabassum
781	COMPARATIVE STUDY OF RC MOMENT RESISTING FRAME AND WALL-FRAME STRUCTURES BY TIME HISTORY ANALYSIS	Muhammed Abul Hossain Mohammad Raihan Mukhlis
891	EXPERIMENTAL STUDY ON CYCLIC BEHAVIOR OF RC FRAME INFILLED WITH SANDCRETE BLOCKS	Mohammad Raihan Mukhlis

Technical Session Information



Session: **E3**
 Session Chair: **Prof. Dr. Gopal Chandra Ghosh, JUST**
 Room No: **1301**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/99853945276>)**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
903	A CRITICAL REVIEW ON SOLID WASTE MANAGEMENT IN DHAKA CITY AND ITS IMPACT ON ENVIRONMENT	Rafuzzaman Khan
907	DISPROPORTIONATE EXPOSURE TO URBAN HEAT ISLAND INTENSITY ACROSS TWO MAJOR DISTRICTS OF BANGLADESH	Muhtamim Haque Tauhid
915	POLLUTANT REMOVAL FROM TANNERY WASTE WATER BY ACTIVATED CARBON FROM LEATHER BUFFING DUST	Md Mohsin Md Mojeb Ali
934	IMPACT OF IMPROPER URBAN DEVELOPMENT ON URBAN HEAT ISLAND (UHI) FORMATION IN THE MAJOR CITIES OF BANGLADESH	Md Mizan Munshi Rafuzzaman Khan
951	HEALTH RISK ASSESSMENT AND ENVIRONMENTAL IMPACTS OF JUTE MANUFACTURING: A CRITICAL REVIEW AND IMPLICATIONS	Nushrat Nureen
960	COMMUNITY-BASED APPROACHES FOR SUSTAINABLE OUTCOMES: A CASE STUDY OF PARTICIPATORY RURAL APPRAISAL IN DAKATIA VILLAGE, KHULNA	Nushrat Nureen
988	PROPERTIES OF CHARLAND CATKIN GROWN TO PROTECT SOIL EROSION	Mahmudul Hasan
1005	IMPACT OF LAND USE/LAND COVER CHANGES ON GROUNDWATER LEVEL USING REMOTE SENSING AND GIS: A CASE STUDY IN RAJSHAHI DISTRICT	Nazmun Naher Chaitee
1025	OPTIMIZATION OF STRUVITE PRECIPITATION FROM HUMAN URINE: IMPACT OF PH AND PRECIPITATION CONDITIONS ON NUTRIENT RECOVERY EFFICIENCY	Fahmida Khanam

Technical Session Information



Session: **F3**
 Session Chair: **Prof. Dr. Hasib Mohammed Ahsan, BUET**
 Room No: **1302**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/94234311546>)**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
277	ANALYZING PEDESTRIAN MID-BLOCK CROSSING BEHAVIOUR BASED ON DEMOGRAPHIC CHARACTERISTICS	Anupam Das Pranta Mursheda Rahman
524	A STUDY ON CAUSES OF ROAD ACCIDENT IN DHAKA-TANGAIL HIGHWAY	Tahmina Rahman Chowdhury
531	OPTIMIZING TRAFFIC FLOW AT FOUR-LEGGED INTERSECTIONS: A STUDY ON INTELLIGENT SIGNAL SYSTEMS	Tofayel ahmed Tapu
557	HARNESSING CNNs FOR PRECISE DAMAGE DETECTION OF ASPHALT PAVEMENTS IN FLOOD-PRONE AREAS	Md. Hasibul Islam Dhrubo
681	ANALYSIS OF EMISSIONS USING MICROSIMULATION-BASED MODELING OF ROAD TRAFFIC IN CHASHARA ROUNDABOUT IN NARAYANGANJ CITY CORPORATION AREA	Habibatur Rahman Iffat
683	MACHINE LEARNING-BASED TRAVEL TIME PREDICTION MODELS FOR COMPLEX TRAFFIC CONDITIONS	Nazmus Sakib
715	USAGE OF CONCRETE WASTES WITH ADDITIONAL CERAMIC WASTES AS ROAD SUB-BASE MATERIAL	SHAHADAT ISLAM SHOURAV
728	EVALUATION OF AN EXISTING INTERSECTION MODEL TO MINIMIZE CONGESTION USING PTV VISSIM SOFTWARE	Md. Fahim Montasir Zisan
799	EVALUATION OF PEDESTRIAN CROSSING SPEED CHANGE PATTERNS AT MID-BLOCK CROSSWALKS IN KHULNA METROPOLITAN CITY	Anika Bushra
888	PARATRANSIT AS AN ALTERNATIVE TO BUS: THE CASE STUDY OF CHOICE BEHAVIOR AMONG MOTORCYCLE, MOTORCYCLE RIDESHARING AND BUS IN DHAKA CITY	Sadia Afrin Aiswarza

Technical Session Information



Session: **G3**
 Session Chair: **Prof. Dr Mst. Farzana Rahman Zuthi**
 Room No: **1343**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/94836695980>)**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
321	ASSESSMENT OF PM2.5 LEVELS AND HEALTH IMPACTS ON INDIVIDUALS NEAR A MAJOR ROAD IN ABHYANAGAR THANA, JASHORE, BANGLADESH	Md Mojeb Ali
330	MODEL-BASED ANALYSIS OF A SUSTAINABLE URBAN DRAINAGE SYSTEM TO MINIMIZE FLOOD HAZARD	Amit Basak
348	WATER, SANITATION, AND HYGIENE QUALITY ASSESSMENT IN THE ASHRAYAN CENTER: A COMPREHENSIVE STUDY OF BATIAGHATA UPAZILA, KHULNA	Ifrit Ahmed Ifrit Ahmed
361	A COMPREHENSIVE REVIEW OF NANOADSORBENTS FOR INDUSTRIAL WASTEWATER TREATMENT FOCUSING ON EFFICIENCY AND ECONOMIC VIABILITY	Naimur Rahman Raheb
368	IMMEDIATE AND LONG-TERM AIR QUALITY CHANGES IN BANGLADESH DUE TO COVID-19 LOCKDOWN: A CRITICAL REVIEW	Rabia Haque
391	A COMPARATIVE ANALYSIS OF MAXIMUM TEMPERATURE VARIATIONS ACROSS EIGHT DIVISIONS IN BANGLADESH	Urmi Afroze
460	IMPACT OF GREEN ROOF STRUCTURE ON AIR POLLUTION IN DHAKA CITY, BANGLADESH	Sumya Asma Cynthia Azry Mohammad Asif
507	GENDER DISCREPANCY IN EMERGENCY HYGIENE FACILITIES AT CYCLONE SHELTERS DURING NATURAL DISASTERS IN TEKNAF AND UKHIYA	Mohammad Arafat Rahaman
512	SELECTION OF SUITABLE SOLID WASTE DUMPING SITES IN SYLHET CITY USING GIS AND CORRESPONDING EMP	Tanima Mallick Toli

Technical Session Information



Session: **H3**
 Session Chair: **Prof. Dr. Abu Zakir Morshed, KUET**
 Room No: **1344**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/93122840294>)**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
416	MULTIVARIATE MACHINE-LEARNING APPROACHES FOR PREDICTING COMPRESSIVE STRENGTH OF HIGH-STRENGTH CONCRETE INCORPORATING SLAG, SILICA FUME AND FLY ASH	Prince Paul
601	BOOSTING CEMENTITIOUS MATERIAL RESILIENCE: UTILIZING SUPER ABSORBENT POLYMERS (SAPS) AND RICE HUSK FLY ASH FOR ENHANCED SELF-HEALING	Fizah Binta haque
675	APPLICATION OF PINEAPPLE LEAF FIBER AS A REINFORCEMENT IN CONCRETE: A REVIEW	Md. Tanvir Ahmmed
699	ENHANCING PERFORMANCE OF ALKALI-ACTIVATED SLAG MORTARS WITH MINERAL ADMIXTURES	Md. Faseehul Islam
712	ENHANCING ENGINEERING PROPERTIES OF MORTAR THROUGH FIBER REINFORCEMENT: A SUSTAINABLE APPROACH BY INTEGRATING RENEWABLE MATERIAL	Fayeque Tazwar
780	NUMERICAL INVESTIGATION FOR LATERAL CAPACITY OF PRE-TENSIONED SPUN PRECAST CONCRETE PILE TO PILE CAP JOINT	Moshiur Rahman
795	FEASIBILITY OF USING RECYCLED BRICK AGGREGATE TO PRODUCE SELF COMPACTING CONCRETE	Muhtadee Ur Rahman Chowdhury Abu Rafe Faiyaz
859	PERFORMANCE ANALYSIS OF WASTE MATERIALS IN ECO-FRIENDLY CONCRETE PRODUCTION	Oishe Rani Dey
923	TEMPERATURE EFFECT ON RECYCLED BRICK AGGREGATE CONCRETE WITH RUBBER AND POLYPROPYLENE FIBER	Mahir Asiful Haque Mansura Oyshi

Technical Session Information



Session: **I3**
 Session Chair: **Prof. Dr. Asiful Hoque**
 Room No: **1202**
 Presentation Mode: **Mixed (<https://bdren.zoom.us/j/91344030982>)**

Date: 12-Dec-24
Time: 15:45-17:15

Paper ID	Paper Title	Registered Authors
132	URBAN FIRE RISK MANAGEMENT: A CASE STUDY ON COMMERCIAL AND PUBLIC BUILDINGS, RAJSHAHI, BANGLADESH	Md Afiqur Rahaman Khan Arfanul Alam Tonoy Md. Mainul Islam
147	LEARNING FROM TRAGEDY: A CRITICAL REVIEW OF NOTABLE FIRE CASES IN BANGLADESH TO STRENGTHEN COMPLIANCE AND RESPONSE	A.K.M. Monoarul Huda
213	SUSTAINABLE PRODUCTION OF 3D PRINTED CONCRETE IN THE CONSTRUCTION INDUSTRY BASED ON COMPRESSIVE STRENGTH AND EMBODIED CO2 ANALYSIS	SAFWAN AHMAD
383	INFLUENCE OF BUILDING ORIENTATION ON INSTANT, DELAYED SENSIBLE AND LATENT ENERGY LOADS: A BUILDING INFORMATION MODELLING (BIM) BASED ANALYSIS	M.A. Muyeed
389	EVALUATING BARRIERS, BENEFITS, AND MITIGATION STRATEGIES FOR SAFETY EQUIPMENT IN THE CONSTRUCTION INDUSTRY	Shahed Hossain
451	ANALYSIS OF FIRE CAUSES AND PREVENTION FOR HIGH-RISE BUILDINGS IN BANGLADESH	Tanvir Ahmed Sourav
661	IDENTIFYING FACTORS AFFECTING KHULNA'S LABOUR PRODUCTIVITY	Arindom Ray
752	ENHANCING RESILIENT URBAN WATER MANAGEMENT: CLIMATE-SENSITIVE PRACTICES AND IMPACTS IN SECONDARY TOWNS OF BANGLADESH	Md. Imran Hossain
1022	PLASTIC WASTE MANAGEMENT OF LOCAL SHIPS IN CHATTOGRAM PORT: INSIGHTS FROM A QUESTIONNAIRE SURVEY	TRISA DAS Niloy Das
1177	ASSESSMENT OF GROUNDWATER QUALITY AND HEAVY METAL POLLUTION NEAR AREFIN NOGOR LANDFILL, CHATTOGRAM	Mst. Farzana Rahman Zuthi MD. Ajijur Rahman

Technical Session Information



Session: **A4**
 Session Chair: **Prof. Dr. S. M. Zahurul Islam, RUET**
 Room No: **1201**
 Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
553	ASSESSING THE INFLUENCE OF SILICA FUME ON STRENGTH PROPERTIES OF RECYCLED AGGREGATE CONCRETE	Md. Abdullah Al Mamun
608	DURABILITY PROPERTIES OF ELECTRIC ARC FURNACE SLAG BLENDED RECYCLED AGGREGATE CONCRETE	Md.Shafiqur Rahman
687	OPTIMIZING PLASTER CRACK RECOVERY USING CYANOBACTERIA-INDUCED CALCITE PRECIPITATION	Mahmudul Haque Tomal Tasmiah Arefin
826	EFFECT OF SUPPLEMENTARY CEMENTITIOUS MATERIALS ON THE PROPERTIES OF SELF-COMPACTING CONCRETE.	MOHAMMAD AKIB UDDIN ARMAN
857	HIGH-VOLUME FLY ASH AS CEMENT SUBSTITUTE: AN IN-DEPTH EVALUATION OF MECHANICAL STRENGTH CHARACTERISTICS	Nafiz Ahamed
860	EFFECT OF RICE STRAW ASH ON MECHANICAL PROPERTIES OF GROUND GRANULATED BLAST-FURNACE SLAG BASED GEOPOLYMER CONCRETE CURED AT ELEVATED TEMPERATURE	Enaet Ullah
1164	CEMENTITIOUS PROPERTIES OF RICE HUSK ASH (RHA) AND EXTRACTED SILICA POWDER FROM RHA	Prof. Dr. G. M. Sadiqul Islam Nadira Islam Nila
1169	AMELIORATING THE PROPERTIES OF RECYCLED AGGREGATES TREATED BY ABRASION USING IMAGE PROCESSING	Md. Asifur Rahman
1188	ANALYSIS OF BORASSUS FLABELLIFER FIBER REINFORCED COMPOSITE	Md. Aminul Islam (CUET)
1190	MACHINE LEARNING BASED PREDICTION OF ALUMINUM CORROSION IN SOLUTIONS USING POLYNOMIAL REGRESSION	Md. Aminul Islam (CUET)

Technical Session Information



Session: B4
Session Chair: Prof. Dr. Md. Abul Hashem, KUET
Room No: 1227
Presentation Mode: In-Person

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
503	STUDY ON COMMUNITY TOILETS IN RAJSHAHI CITY CORPORATION	Intekhab Uddin Ahmad Chy
504	CONSEQUENCES OF LAND USE CHANGE AND URBANIZATION ON THE THERMAL ENVIRONMENT OF RAJSHAHI CITY: A STUDY ON URBAN HEAT ISLAND EFFECT	Dr. Md. Kamruzzaman
521	SUSTAINABLE AND ECO-FRIENDLY DEVELOPMENT OF TANNERY SOLID WASTE BASED CHITOSAN/EGG SHELL ANTIBACTERIAL COMPOSITE SHEETS	Md. Mahmudul Hasan Shimanto
563	COMPARISON OF THE AIR QUALITY BETWEEN DHAKA AND RAJSHAHI	Priyanti Dam Aishee Jyoti Dhar
586	CAPTURING RAINFALL DYNAMICS: THE EFFICACY OF ARIMA MODELS IN ENVIRONMENTAL FORECASTING	Md. Rafiul Islam
1057	A BREAKEVEN ANALYSIS OF MULTIMODAL TRANSPORTATION OF MSW: A CASE STUDY OF DHAKA CITY	Oishik Majumder Muamber Sarower Nibir
1111	FABRICATION OF MORTAR FROM LIMING SLUDGE: SOLID WASTE MANAGEMENT IN TANNERY	Md Kazim Ahmed Zim
1149	A COMPREHENSIVE STUDY OF WATER QUALITY IMPACT OF TREATED TANNERY WASTEWATER ON DHALESHWARI RIVER IN DHAKA: A FIVE-YEAR ANALYSIS	Amir Fosal
1166	SEASONAL WEATHER PATTERN PREDICTION USING MACHINE LEARNING	Mohammad Mohsin Mohammad Mohsin Md Sifat Sarkar

Technical Session Information



Session: **C4**
Session Chair: **Prof. Dr. Md. Reaz Akter Mullick**
Room No: **1228**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
153	STUDY ON SEDIMENT TRANSFER FOR SURFACE RUNOFF UNDER DIFFERENT ARTIFICIAL RAINFALL EXPERIMENTS	Md. Jahir Uddin
269	ASSESSMENT OF BANK EROSION AND CHANNEL SHIFTING OF JAMUNA RIVER IN SIRAJGANJ DISTRICT IN BANGLADESH USING GIS AND RS TECHNIQUES	Sadia Akhter Sara
270	EROSION VULNERABLE AREA ASSESSMENT OF TEESTA RIVER SYSTEM IN BANGLADESH USING A MULTI-CRITERIA-BASED GEOSPATIAL FUZZY EXPERT SYSTEM AND REMOTE SENSING	Sadia Akhter Sara
374	AI FOR SUSTAINABLE IRRIGATION PROCESS DRIVEN BY OPTIMIZED RENEWABLE ENERGY: BANGLADESH PERSPECTIVE	Fahim Montasir
402	ASSESSMENT OF URBAN DRAINAGE SYSTEM USING SWMM AND GIS: A CASE STUDY ON SUST CAMPUS	Srijon Das Swarup
461	ANALYSIS OF RIVER BANK LINE SHIFTING AND BAR DYNAMICS OF THE TETULIA RIVER (BARISAL-BHOLA) USING MULTI-TEMPORAL SATELLITE IMAGES	Md. Sazedur Rahman
653	SWAT-BASED HYDROLOGICAL ASSESSMENT OF THE TRANSBOUNDARY BRAHMAPUTRA RIVER CATCHMENT	Sumaiya Rahman Mina

Technical Session Information



Session: D4
Session Chair: Prof. Dr. Md. Mozammel Hoque, DUET
Room No: 1229
Presentation Mode: In-Person

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
98	STRENGTH BEHAVIOR OF GLASS FIBER REINFORCED CONCRETE WITH RECYCLED COARSE AGGREGATE	Md. Merajul Islam
185	PERFORMANCE ANALYSIS OF RESIDENTIAL GREEN BUILDINGS: A BIM APPROACH	Asif Sadman Khan Siddhartha Sarkar
351	IMPROVING THE EFFECTIVENESS OF TUNED LIQUID COLUMN DAMPERS WITH SEALED OPENINGS BY RUBBER BALLOONS DURING EARTHQUAKE-INDUCED VIBRATIONS IN BUILDING STRUCTURES	Mohammad Sabbir Rahman Arpita Kundu
487	STRATEGIC ANALYSIS OF ULTRA-HIGH-PERFORMANCE CONCRETE WITH NANO-MATERIAL INTEGRATION EMPHASIZING COMPRESSIVE STRENGTH ANALYSIS AND EMBODIED CO2 EVALUATION	Shuvo Dip Datta
1118	EFFECT OF LENGTH-WIDTH RATIOS ON THE AXIAL CAPACITY OF STEEL TUBULAR COLUMN FILLED WITH RECYCLED BRICK AGGREGATE CONCRETE	Dr. Md. Khasro Miah Engr. Shams-E-Imrekha Khanam A.K.M. Ruhul Amin
1123	BUCKLING BEHAVIOUR OF COLD FORMED STEEL OMEGA(Ω)-SECTION UNDER COMPRESSION	Jayed Pasha Md Rakibul Islam Sumaiya Zaman Khan Tasnim Jannat
1148	EFFECT OF LOADING DIRECTIONALITY ON SEISMIC BEHAVIOR OF PARTIALLY BONDED SCRAP TIRE RUBBER PAD ISOLATOR	Md. Mistak Hossain
1160	PROMOTING SUSTAINABLE AND ENVIRONMENTAL FRIENDLY PRACTICES IN BRICK PRODUCTION: HARNESSING THE POTENTIAL OF PAINT SLUDGE AS AN ALTERNATIVE	MD.NASIM HOSSAIN
1179	SYNERGETIC EFFECT OF LIMESTONE AND FLY ASH ON CONCRETE DURABILITY	Md Nams Uddin Bhuiyan Nid Faria Hassan Nova Prof. Dr. G. M. Sadiqul Islam
1183	ARTIFICIAL INTELLIGENCE IN STRUCTURAL HEALTH MONITORING: A REVIEW	Shafayet Rahman

Technical Session Information



12-14 December 2024

Session: **E4**
Session Chair: **Prof. Dr. Md. Shajib Ullah**
Room No: **1301**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
260	NUMERICAL STUDY ON THE BEHAVIOR OF SOIL PILE SYSTEM FOR SINGLE LAYER SOIL BY PLAXIS 3D	Md Sadman Sakib
332	FINITE ELEMENT ANALYSIS OF SETTLEMENT OF GROUND SURFACE DUE TO DIFFERENT LOADING CONDITIONS ON A TUNNEL	Ananya Das
535	NUMERICAL ANALYSIS ON SEISMIC GROUND RESPONSE DUE TO GROUNDWATER DEPLETION	Farzin Hassan Moumita
790	NUMERICAL LIMIT EVALUATIONS OF THE VERTICAL STRIP PLATE ANCHOR'S PULLOUT CAPABILITY IN HETEROGENEOUS SOIL	Muhammad Iftiadul Haque Mr. Nibir Rahman
1110	CORRELATION BETWEEN SPT AND CPT OF VARIOUS SOIL TYPES IN PADMA RIVER AT MAWA (DOWNSTREAM SIDE) NEAR PADMA BRIDGE	Md. Balayet Hossain.
1165	EVALUATING THE APTNESS OF BRICK KILN WASTE IN THE IMPROVEMENT OF SILTY SAND	Mir Tawsif Sultan
1185	COMPARATIVE PERFORMANCE ANALYSIS OF RECTANGULAR, DIAMOND AND HEXAGONAL SHAPE GEOCELLS IN REINFORCING MEDIUM DENSE TO VERY LOOSE SOILS USING FEM	Shantunu Chowdhury
1189	STRENGTHENING OF RAILWAY EMBANKMENT USING GEOGRID: A NUMERICAL STUDY	Bitta Chakma

Technical Session Information



Session: F4
Session Chair: Dr. Mohammad Shaheen Sarker, RHD
Room No: 1302
Presentation Mode: Online (<https://bdren.zoom.us/j/97121680150>)

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
976	ASSESSING BOARDING/ALIGHTING FACILITY QUALITY & ACCESSIBILITY TO METRO SERVICE USING MACHINE LEARNING APPROACH	Tasnia Afrin Faria Afrin Prova
1017	REVITALIZING URBAN ACCESSIBILITY: CREATING A PEDESTRIAN PRECINCT FROM ZERO POINT TO MONI CHATTOR IN RAJSHAHI CITY, BANGLADESH	Towfiqur Rashid
1041	ASSESSING ROAD CONNECTIVITY IN RAJSHAHI CITY CORPORATION THROUGH GRAPH THEORY-BASED GIS ANALYSIS	Rubayet Arafin Rimon
1058	INTEGRATED ASSESSMENT OF HEATWAVE VULNERABILITY IN KHULNA CITY: A MULTI-FACTOR INDEX	Nushrat Nureen
1099	URBAN FREIGHT ATTRACTION MODELING IN DHAKA CITY: AN ESTABLISHMENT BASED APPROACH FOR A DEVELOPING COUNTRY	NOUSHIN SYEARA RODOSHI
1101	A COMPARATIVE STUDY OF EQUIVALENT AXLE LOAD FACTORS FOR STANDARD AND OVERLOADED VEHICLES ON NATIONAL HIGHWAYS OF BANGLADESH	Md. Joynul Abadin
1125	ANALYZING THE IMPACT OF COVID-19 ON PUBLIC TRANSPORTATION RIDERSHIP IN DHAKA, BANGLADESH	Farabi Islam Pantha
1126	A SPATIAL-TEMPORAL ANALYSIS OF TRAFFIC COLLISION BEFORE AND AFTER MASS RAPID TRANSIT LINE-6 OPERATION	Noshin Nawar
1128	ASSESSMENT OF ROUNDABOUT RISK IN DHAKA CITY: A JOINT ANALYSIS OF MIXED LOGIT MODEL AND NEGATIVE BINOMIAL MODEL	Sanjida Akhter

Technical Session Information



Session: **G4**
 Session Chair: **Prof. Dr. Khondoker Mahbub Hassan, KUET**
 Room No: **1343**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/95841409476>)**

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
517	ANTIBACTERIAL BIOCOMPOSITE SHEET FROM TANNERY WASTE: A SUSTAINABLE WASTE-TO-WORTH SOLUTION	Muttakee Bin Ali Muttakee Bin Ali
528	GREEN SPACES IN URBAN ENVIRONMENTS: EXPLORING THE ROLES OF POCKET PARKS IN RAJSHAHI'S LANDSCAPE	Priyam Riddha Biswas
533	ENVIRONMENTAL CONSEQUENCES OF HARD ROCK MINING IN BANGLADESH: INSIGHTS FROM THE MADDHAPARA MINE	Shishir Kairy
555	SUSTAINABLE WASTEWATER TREATMENT WITH ELECTRICITY PRODUCTION: MICROBIAL FUEL CELLS FOR SEWAGE VALORIZATION	Shishir Kairy
588	ANALYSIS OF RIVER FLOW DYNAMICS AND FLOOD RISK IN THE BURIGANGA RIVER USING STEADY FLOW MODELING AND INUNDATION MAPPING BY HEC-RAS	Farah Binte Shahid Urbi
589	DEVELOPMENT AND PERFORMANCE ANALYSIS OF BIODEGRADABLE, TRANSPARENT ANTIMICROBIAL BIOPLASTIC FROM TANNERY SOLID WASTE	Hasan Ahmed
592	RAINFALL FORECASTING IN PABNA DISTRICT USING THE RNN MODEL	Sumaia Ahmed Tithi Mithun Chakrabartty
619	TEMPORAL ANALYSIS OF PM2.5 PARTICLE CONCENTRATIONS IN DHAKA CITY, BANGLADESH	Md. Tahsin Ahsan
628	SPATIAL ASSESSMENT OF DROUGHT RISK IN RAJSHAHI DISTRICT: INTEGRATING HAZARD, VULNERABILITY AND EXPOSURE INDICES USING GIS AND GEE APPROACH	Riya Islam

Technical Session Information



Session: **H4**
Session Chair: **Prof. Dr. Bipul Chandra Mondal**
Room No: **1344**
Presentation Mode: **Online (<https://bdren.zoom.us/j/94701936497>)**

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
566	A COMPARATIVE STUDY ON SEISMIC ANALYSIS OF A G+14 STORIED BUILDING USING CONVENTIONAL SOLID SLAB AND WAFFLE SLAB	Zeba Fariha
657	COMPARATIVE STUDY OF RC SHEAR WALL AND TRUSS BELT SYSTEM IN A MULTI-STOREY STRUCTURE WITH PLAN IRREGULARITIES	Md. Sifatul Islam
827	SEISMIC EVALUATION OF AN EXISTING BUILDING USING JAPANESE INDEX METHOD	SHARIFUL ISLAM
863	MECHANICAL PROPERTIES OF CONCRETE USING DIFFERENT NANOMATERIALS: A REVIEW	MD. Navid Hassan Khan
865	A COMPARATIVE STUDY ON THE APPLICATION OF CONCENTRIC AND ECCENTRIC BRACING SYSTEMS FOR SEISMIC VIBRATION CONTROL OF BUILDING STRUCTURES	Mahmodul Hasan
928	ADVANCED MACHINE LEARNING APPROACHES FOR PREDICTING THE COMPRESSIVE STRENGTH OF CONCRETE INCORPORATING SUPPLEMENTARY CEMENTITIOUS MATERIALS	Rajorshi Das Gupta Prantick
997	A COMPARATIVE STUDY ON CONCRETE DAMAGE PLASTICITY MODEL SUBJECTED TO AXIAL COMPRESSION LOAD	Syeda Rukaiya Begum Sumaiya
1002	SHEAR PERFORMANCE ASSESSMENT OF FRP-REINFORCED CONCRETE BEAMS: COMPARING NUMERICAL SIMULATIONS WITH EXISTING CODES	Abdullah Al Shanto
1171	EXPERIMENTAL EVALUATION OF EGGSHELL AND GLASS POWDER AS PARTIAL REPLACEMENT OF CEMENT	Md. Shahariar Kabir

Technical Session Information



Session: **I4**
Session Chair: **Prof. Dr. Swapan Kumar Palit**
Room No: **1202**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 8:45-10:15

Paper ID	Paper Title	Registered Authors
376	EXPLORING MODE CHOICE, WILLINGNESS TO PAY AND VALUE OF TIME AMONG PASSENGERS IN CHATTOGRAM CITY: INSIGHTS FROM A REVEALED PREFERENCE SURVEY	Tanzim Rashid Md Wazkuruni
756	IMPLEMENTATION OF TRAMLINE IN CHATTOGRAM METROPOLITAN AREA BASED ON PASSENGER DEMAND	Fahim Shahriar
930	A CASE STUDY ON A MAJOR FATAL CRASH AT BANGABANDHU EXPRESSWAY: FACT FINDING INVESTIGATION	Md Asif Raihan
1033	EFFECT OF ASPHALT ON THE VOLUMETRIC AND GYRATORY COMPACTION ENERGY OF CONTROLLED AND PET-MODIFIED SUPERPAVE	Mohei Menul Islam
1038	THE NEED FOR HIGHER EDUCATION IN TRANSPORTATION SAFETY: A TRANSLATIONAL VIEW TO ADVANCE VISION ZERO	S M SOHEL Mahmud
1156	STATISTICAL ANALYSIS OF GLOBAL TRAFFIC ROAD FATALITIES THROUGH REGRESSION USING IBM SPSS	Sumaya Sadia Toha
1158	PAVEMENT MANAGEMENT OPTIONS IN CLIMATE-VULNERABLE AREAS	Kazi Khohinoor Akter Kripa Anamika Roy Chowdhury
1163	TRANSPORTATION MODE USE TRAITS OF MIDDLE-CLASS INCOME GROUPS OF CHATTOGRAM CITY	Tanima Ghosh

Technical Session Information



Session: **A5**
Session Chair: **Prof. Dr. Raquib Ahsan, BUET**
Room No: **1201**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
157	EFFECT OF TROPICAL WEATHER CONDITIONS ON CFRP STRENGTHEN CORRODED TUBULAR STEEL JOINTS	Prof. Dr. S. M. Zahurul Islam
299	STEEL FIBER REINFORCEMENT IN LIGHTWEIGHT CONCRETE: A COMPREHENSIVE PERFORMANCE EVALUATION	Saniul Haque Mahi
413	THE POTENTIAL OF JUTE FIBER REINFORCED POLYMER LAMINATE AS AN ALTERNATIVE TO CARBON FIBER REINFORCED POLYMER LAMINATE FOR SHEAR STRENGTHENING OF RC BEAM	Md Ayatullah
909	GRAPHENE OXIDE-ENHANCED RECYCLED AGGREGATE CONCRETE: A PROMISING PATHWAY TO SUSTAINABLE INFRASTRUCTURE	Nafiz Ahamed
920	TENSILE STRENGTH ANALYSIS OF CARBON AND GALVANIZED IRON TEXTILE REINFORCED CONCRETE	Tasnia Ahmed
989	HIGH TEMPERATURE EFFECT ON BASALT FIBER PELLET REINFORCED CEMENTITIOUS COMPOSITES	Tasnia Ahmed
994	POLYPROPYLENE FIBERS FOR IMPROVED MECHANICAL STRENGTH IN CONCRETE: A LITERATURE REVIEW	Saniul Haque Mahi
1062	INVESTIGATION ON PERMEABILITY AND COMPRESSIVE STRENGTH OF PERVIOUS CONCRETE INCORPORATING LADLE FURNACE SLAG AND SILICA FUME	Abdul Hasib Hosainul karim
1159	PAINT SLUDGE AS A SUSTAINABLE PARTIAL SUBSTITUTE FOR CEMENT IN BLOCK MANUFACTURING	MD.NASIM HOSSAIN

Technical Session Information



Session: **B5**
 Session Chair: **Prof. Dr. Zahir Udding Ahmed, KUET**
 Room No: **1227**
 Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
181	INTEGRATING MICROBIAL BIOREMEDIATION AND PHYTOREMEDIATION FOR SUSTAINABLE HEAVY METAL POLLUTION CONTROL: A PERSPECTIVE STUDY OF BANGLADESH	SRABONI DASH SRABONI DASH
593	FROM CHALLENGES TO SOLUTIONS: ADDRESSING THE WATER SUPPLY AND FECAL SLUDGE & SOLID WASTE MANAGEMENT GAPS IN JHALOKATHI MUNICIPALITY	Md. Muniad Jaman Akanda Sadia Akter Mimi
630	IDENTIFICATION AND INVESTIGATION OF POLLUTION SOURCES OF SHITALAKSHYA RIVER IN BANGLADESH	Rubaiyat Yasmin Mouly
635	GROUNDWATER LEVEL LOWERING DUE TO OVER-PUMPING IN ROHINGYA REFUGEE CAMPS AND ITS SOCIO-ENVIRONMENTAL CONSEQUENCES	Mohammad Tarek Mahmud
644	EXPLORING THE DYNAMICS OF ENVIRONMENTAL SUSTAINABILITY: ANALYZING THE CONDITION AND IMPROVING STRATEGIES FOR URBAN PUBLIC SPACES IN KHULNA	Adiat Rahman
651	PROMOTING SUSTAINABILITY IN BUILDING CONSTRUCTION: EXPLORING THE USE OF RECYCLED WASTES IN BUILDING CONSTRUCTION AND ARCHITECTURE	Prasenjeet Sarkar Anik
654	EXPLORING FUTURE APPROACHES IN GREEN BUILDING SUSTAINABILITY: BALANCING ENVIRONMENTAL, SOCIAL AND ECONOMIC BENEFIT	Sabbir Ahmed
684	ANALYSIS AND ASSESSMENT OF NOISE POLLUTION IN DIFFERENT LOCATIONS AT KHULNA CITY	Rahul Chakrabarty
1105	SODIUM CHLORIDE-FREE ANIMAL SKIN PRESERVATION TO MITIGATE ENVIRONMENTAL POLLUTION	Md. Enamul Hasan Zahin Md. Enamul Hasan Zahin
1153	DEVELOPMENT OF HOUSEHOLD TREATMENT UNIT FOR IRON REMOVAL FROM GROUNDWATER	Md. Niamul Bari

Technical Session Information



Session: **C5**
Session Chair: **Prof. Dr. Md. Hazrat Ali**
Room No: **1228**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
541	RIVERBANK STABILITY ANALYSIS OF THE JAMUNA RIVER UNDER VARIOUS STATIC AND HYDRAULIC LOAD CONDITIONS	Md. Shahidul Islam
577	IDENTIFYING THE HOTSPOTS OF FECAL CONTAMINATION IN NATURAL CHANNELS: A CASE STUDY ON SYLHET CITY CORPORATION, BANGLADESH	Tirtha Karmaker
631	FLOOD INUNDATION MAPPING OF KUSHIYARA RIVER BASIN USING HEC-RAS 1D/2D COUPLED MODEL	Aparajita Bhattacharjee Md. Samiun Basir
646	EFFECT OF LAND USE AND LAND COVER CHANGES ON SOIL EROSION USING REVISED UNIVERSAL SOIL LOSS MODEL IN AN URBAN AREA: A CASE STUDY	Md. Shakirul Islam
656	MANAGED AQUIFER RECHARGE (MAR) MODEL USING PROCESSING MODFLOW X FOR SUSTAINABLE WATER MANAGEMENT IN DHAKA CITY, BANGLADESH	IFFAT JAHAN SHAMMEE IFFAT JAHAN SHAMMEE
777	REMOVAL OF PHENOLICS FROM GREYWATER: AN APPROACH TO OVERCOME IRRIGATION WATER SCARCITY	Md. Asiful Haque Judge
1174	PREDICTING TOTAL ORGANIC CARBON IN RIVER WATER THROUGH REGRESSION ANALYSIS OF PHYSICO-CHEMICAL PARAMETERS	Md Zubair

Technical Session Information



Session: D5
Session Chair: Prof. Dr. Nusrat Hoque
Room No: 1229
Presentation Mode: In-Person

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
138	SEISMIC AND MONOTONIC LOADING PERFORMANCE OF DEFICIENT RC BEAM-COLUMN JOINTS STRENGTHENING BY CFRP SHEETS	Prof. Dr. S. M. Zahurul Islam
370	NUMERICAL INVESTIGATION ON THE BEHAVIOR OF CFRP STRENGTHENED STEEL BEAM-COLUMN JOINT UNDER COMPRESSIVE AND CYCLIC LOADINGS	Md Golam Amin Prof. Dr. S. M. Zahurul Islam
823	NUMERICAL SIMULATIONS OF SHORT RECTANGULAR CONCRETE-FILLED STAINLESS-STEEL TUBULAR COLUMN (CFSST) SUBJECTED TO AXIAL LOAD	Md Tanzil Hawlader
829	ANALYZING COMPRESSIVE STRENGTH OF CONCRETE INCORPORATING OIL PALM SHELL AGGREGATE USING MACHINE LEARNING TECHNIQUES	Mst. Suraiya Afrin
984	COMPARATIVE ANALYSIS OF LOADING PROVISIONS IN BNBC 2020 AND BNBC 1993 FOR REINFORCED CONCRETE BUILDINGS ACROSS SEISMIC AND WIND ZONES IN BANGLADESH	MD. SALAHUDDIN
1029	FINITE ELEMENT ANALYSIS OF FRP-STRENGTHENED MASONRY SHEAR WALL	Asif Shaffat Zafrin
1046	AI-DRIVEN PREDICTION OF CRACK WIDTH IN SELF-HEALING CONCRETE APPLYING VARIED AGENTS THROUGH THE ADAPTATION OF THE PSO-SVM	Saad Raiyan Sanim Tanjum Tahsin Hossain
1112	STEEL PLATE CONFINEMENT EFFECT OF BRICK AGGREGATE CONCRETE CUBE	A.K.M. Ruhul Amin Dr. Md. Khasro Miah
1180	INNOVATIVE SHEAR CONNECTOR FOR ENHANCED STRUCTURAL PERFORMANCE IN TIMBER-CONCRETE COMPOSITE STRUCTURES	Imam Hossain Chowdhury

Technical Session Information



Session: **E5**
Session Chair: **Prof. Dr. Nehreen Majed, UAP**
Room No: **1301**
Presentation Mode: **Online (<https://bdren.zoom.us/j/94923749858>)**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
670	THERMAL SHIFTS IN RAJSHAHI CITY: THE ROLE OF VEGETATION AND WATERBODY LOSS	MD. RUMMAN HOWLADER
718	FECAL SLUDGE MANAGEMENT: A VITAL COMPONENT OF SANITATION INFRASTRUCTURE IN URBAN BANGLADESH	Mardia Farisha Oyshee
819	FLOOD PREDICTION AND FORECASTING USING ANNS AND FUZZY LOGIC MODEL IN SYLHET, BANGLADESH	Mayaz Uddin Gazi
1034	INVESTIGATING THE EFFECTS OF URBAN SPRAWL FROM SOCIAL AND ENVIRONMENTAL PERSPECTIVE IN KATAKHALI MUNICIPALITY, RAJSHAHI	Towfiqur Rashid
1116	COMPARATIVE STUDY ON THREE WATER TREATMENT PROCESS: ADSORPTION BY ACTIVATED CARBON(AC), REVERSE OSMOSIS(RO) & PLASMA METHOD ON BASIS OF EFFECTIVENESS & PRACTICALITY: A REVIEW	Prosanta Dev Nath Rajorshi Das Gupta Prantick
1154	DELIMING WITH A COMBINATION OF CITRIC ACID, SODIUM HEXAMETAPHOSPHATE, AND ETHYLENEDIAMINETETRAACETIC ACID TO REDUCE NITROGENOUS COMPOUNDS	Prof. Dr. Md. Abul Hashem Md. Mukimujjaman Miem
1184	PERFORMANCE OF CEMENT CONCRETE (CC) BLOCK WITH PARTIAL REPLACEMENT OF CEMENT BY PAINT SLUDGE IN COASTAL ENVIRONMENT	Ariful Islam
1187	ANALYZING PUBLIC SENTIMENT ON CLIMATE CHANGE USING NATURAL LANGUAGE PROCESSING	Arish Morshed Zobeyer

Technical Session Information



Session: **F5**
 Session Chair: **Prof. Dr. Md. Misbah Uddin, SUST**
 Room No: **1302**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/98510686823>)**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
200	A COMPARATIVE ANALYSIS OF RANDOM FOREST AND XGBOOST MACHINE LEARNING TECHNIQUES FOR IDENTIFYING DROUGHT DRIVERS IN NORTHERN BANGLADESH	Mahin Saleh
212	ASSESSMENT OF FLOOD HAZARDS AND VULNERABILITIES USING ESRI LULC AND FABDEM DATA: A CASE STUDY OF LALMONIRHAT SADAR UPAZILLA, BANGLADESH	Shema Akter Shema Akter
254	SHORELINE DYNAMICS ASSESSMENT OF TEKNAF COAST OF BANGLADESH USING INTEGRATED GIS-DSAS TECHNIQUES	Mariah Hossain
259	ENHANCING URBAN WATER RESILIENCE THROUGH RAINWATER HARVESTING, SURFACE RUNOFF REDUCTION AND WATER REUSE	Ayshi Das
352	REMOTE SENSING INSIGHTS INTO CROPPING INTENSITY IN CLIMATE-ADAPTED COASTAL POLDERS OF SOUTHWEST BANGLADESH	Shahriar Sarkar
398	THE IMPACTS OF COX'S BAZAR AIRPORT RUNWAY EXTENSION ON THE SHORELINE CHANGES AROUND SONADIA ISLAND USING REMOTE SENSING TECHNIQUES AND NUMERICAL MODELING	Md. Arifur Rahaman
400	STUDY OF YEARLY VARIATION OF WATER QUALITY PARAMETERS AND INDICES OF THE TURAG RIVER OF BANGLADESH	Mohsinat Ahmed Laboni
427	HYDRO-MORPHOLOGICAL ANALYSIS OF UPPER MEGHNA RIVER AND MODELLING THE EFFECT OF UNDER-CONSTRUCTION JETTY AT ITS LEFT BANK AT GAZARIA USING HEC-RAS	Mashia Binte Mahabub
497	STUDY ON WAVE CHARACTERISTICS DURING TWO SELECTED TROPICAL CYCLONES ALONG THE COAST OF BANGLADESH	MD. Yeaminul Hoque

Technical Session Information



Session: **G5**
 Session Chair: **Prof. Dr. Rowshan Mumtaz, BUET**
 Room No: **1343**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/94276849622>)**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
605	QUALITATIVE ASSESSMENT OF POTABLE WATER QUALITY PARAMETERS SUPPLIED BY KHULNA WASA , BANGLADESH	Md. Rashedul Islam
738	DETERMINATION OF CARBON STOCK AT MADHUPUR SAL FOREST IN TANGAIL, BANGLADESH	Ferdousi Akter Mishu
739	PREDICTION OF MUNICIPAL SOLID WASTE GENERATION RATE USING MACHINE LEARNING; A CASE STUDY OF RAJSHAHI CITY	Suraiya Afreen
740	IMPACT OF PLASTIC POLYMER ON BIOTA AND AQUATIC LIFE FROM SHIP-GENERATED WASTE AT MONGLA PORT	Sharmin Rahman
742	MICROPLASTICS (MPS) IN THE WATER COLUMN OF THE PERIPHERAL RIVERS AND LAKE OF DHAKA CITY	ZARIN TASNIM
744	ASSESSMENT OF REGIONAL DISPARITY: A STUDY ON BANGLADESH	Sharmin Rahman
763	ASSESSMENT OF WATER QUALITY OF DAKATIA RIVER, BANGLADESH	Pranta Chowdhury
779	PERFORMANCE EVALUATION OF BITUMEN MIXTURE USING POLYETHYLENE TEREPHTHALATE (PET) RESINS	Rabeya Bashree
809	MICROPLASTICS ALONG THE BANK OF BURIGANGA RIVER: A STUDY OF THEIR ABUNDANCE, DISTRIBUTION, AND PROPERTIES AT DIFFERENT OCCUPANCY ZONES	Ahnaf Shahriyar

Technical Session Information



Session: **H5**
 Session Chair: **Prof. Dr. Dr. Syed Ishtiaq Ahmad, BUET**
 Room No: **1344**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/91812485386>)**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
382	ANALYZING STATIC AND DYNAMIC LOAD TEST ON PRECAST PILES PROVIDES VITAL INFORMATION FOR VERIFYING EMPIRICAL FORMULAS USED IN DESIGN	Asik Kadir
387	ENHANCING CONCRETE PERFORMANCE BY INCORPORATING POLYETHYLENE TEREPHTHALATE AS A PARTIAL SAND REPLACEMENT IN STEEL FIBER REINFORCED CONCRETE	Md. Tanvin Mahi Prof. Dr. Md. Robiul Awall
407	INVESTIGATION ON BEHAVIOR OF ALUMINUM BEAMS SUBJECTED TO IMPACT LOADS USING FEM	Noushin Tabassum Tasnim
410	SEISMIC PERFORMANCE OF REINFORCED CONCRETE BUILDINGS USING PUSHOVER ANALYSIS	Shadia Masud
442	STRUCTURAL INVESTIGATION OF RC FLAT PLATE STRUCTURE FOR DIFFERENT GEOMETRICAL SHAPED BUILDING	Sayed Anisur Rahman Md. Abdul Khaled
493	BEHAVIOR OF SHALLOW FOUNDATION FOR HIGH-RISE BUILDING: FIXED BASE VS THREE-DIMENSIONAL SOIL MODEL	AL-MAHMUD
502	COMPARATIVE STUDY ON LATERAL LOAD RESISTING SYSTEM WITH DIFFERENT PLACEMENT OF SHEAR WALL IN HIGH-RISE BUILDING USING ETABS	Mohammad Ali
505	STRUCTURAL PERFORMANCE ANALYSIS OF HOLLOW AND SOLID COLUMNS WITH IDENTICAL CONCRETE VOLUME IN A (G+8) STORY BUILDING	MD. RUMMAN HOWLADER
776	EXPERIMENTAL INVESTIGATION ON EFFECTS OF TEMPERATURE ON PLASTIC SHRINKAGE PROPAGATION OF CONCRETE	Rokibul Hossain Titu

Technical Session Information



Session: **I5**
 Session Chair: **Prof. Dr. Swapan Kumar Palit**
 Room No: **1202**
 Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 14:30-16:00

Paper ID	Paper Title	Registered Authors
126	INVESTIGATING THE IMPACTS OF PHYSICAL AND SOCIO-ENVIRONMENTAL VARIABLES ON PEDESTRIAN BEHAVIOR AND WALKABILITY IN THE CENTRAL ROAD AREA, HATIRPOOL, DHAKA	Prasenjeet Sarkar Anik
169	ASSESSMENT OF RURAL ROAD ACCESSIBILITY AND ITS CORRESPONDING IMPACTS: A CASE STUDY	Fabliha Bushra Tanseem Naima Haque
186	TRAFFIC-INDUCED NOISE POLLUTION DURING PEAK AND OFF-PEAK HOURS: A CASE STUDY IN BOGURA CITY, BANGLADESH	Abhishek Sarkar
191	ASSESSING ROAD USER SATISFACTION: DHAKA ELEVATED EXPRESSWAY PERSPECTIVE	Shouvik Saha Tirtho Asif Sadman Khan
294	ANALYSIS OF PEDESTRIAN ROAD CROSSING BEHAVIORS WITH THE AHP METHOD THROUGH RISK FACTORS AT INTERSECTIONS OF KHULNA CITY	Naima Islam Naima Islam
298	EFFECT OF METRO RAIL ON THE TRANSPORTATION SYSTEM OF DHAKA CITY: A CASE STUDY ON MRT LINE 6	Hafsa Rahman Rinky
363	DEVELOPING A FRAMEWORK FOR SELECTING LONG SPAN BRIDGE ALIGNMENT AND FORM-A MULTI CRITERIA ANALYSIS APPROACH	Mohammad Zakir Alam
367	EXPLORING USER PERSPECTIVES ON BATTERY-RUN RICKSHAW SERVICE QUALITY: A CROSS-CITY ANALYSIS IN BANGLADESH	Md. Mamun Islam Arnikah Nawar KUMAR ANANTO UTSHAHO SARMA CHOWDHURY
613	IDENTIFYING THE FACTORS ASSOCIATED WITH TRAFFIC ACCIDENTS AT HIGHWAY INTERSECTIONS: A PERCEPTION STUDY	Arpita Kundu Kamrunnaher Kona Mursheda Rahman Kamrunnaher Kona

Technical Session Information



Session: **A6**
 Session Chair: **Prof. Dr. Md. Robiul Awall, RUET**
 Room No: **1201**
 Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
236	INVESTIGATION ON THE BEHAVIOR OF PRE-CRACKED RC BEAM-COLUMN JOINTS STRENGTHENED BY CFRP UNDER ECCENTRIC LOADING	Md Golam Amin Prof. Dr. S. M. Zahurul Islam
449	DEVELOPMENT OF GREEN CONCRETE UTILIZING RECYCLED PET PLASTIC WITH SILICA FUME AND FLY ASH REINFORCED BY COCONUT COIR FIBER	Abu Shaid Leon Mir Zubayer Mahmood Sumaya Hossain Arni
450	LOW-COST CEMENT CONCRETE USING BRICK CHIPS WITH SUPERPLASTICIZER	Md. Minhazul Ahsan Nibir
525	SYNERGISTIC EFFECTS OF WASTE MARBLE POWDER AND SILICA FUME FOR THE PRODUCTION OF STRUCTURAL CELLULAR LIGHTWEIGHT CONCRETE	Md. Kawsarul Islam Kabbo
551	PERFORMANCE OF ULTRA-HIGH STRENGTH CONCRETE BY UTILIZING GLASS MATERIALS FOR ECO-FRIENDLY CONSTRUCTION: A REVIEW	Noshin Tasnim Md Rakibul Islam Tahmidur Rahman Siam
561	INVESTIGATING THE INFLUENCE OF JUTE FIBRE ON MECHANICAL STRENGTH AND DURABILITY IN JUTE FIBRE-REINFORCED MORTAR	Nazmus Sakib
794	EFFECTIVENESS OF VARIATION OF ALKALI ACTIVATOR (NAOH SOLUTION) MOLARITY AND DETERMINATION OF MECHANICAL PROPERTIES OF GEOPOLYMER CONCRETE BY USING RICE STRAW ASH AND GROUND GRANULATED BLAST FURNACE SLAG AS A CEMENT SUBSTITUTE	Bijoysri Biswas Efath Hasan Shapin
940	INFLUENCE OF INDUSTRIAL WASTES AND NANO MATERIALS ON THE PROPERTIES OF RECYCLED AGGREGATE CONCRETE: A REVIEW	MD SHAKIB KHAN
957	JUTE FIBER OPTIMIZATION FOR ENHANCING CONCRETE PROPERTIES: A REVIEW	Rehnuma Raheem

Technical Session Information



Session: B6
Session Chair: Prof. Dr. Md. Kamruzzaman, RUET
Room No: 1227
Presentation Mode: In-Person

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
722	AN AMPHIBIOUS ARCHITECTURAL APPROACH THAT DWELLS ON THE PROBLEM OF RISING SEA LEVELS FOR A RESILIENT FUTURE FOR COASTAL SETTLEMENT	Mumtahin Ahmad
747	COMPARATIVE STUDY OF SAND AND ANTHRACITE IN MANGANESE REMOVAL FOR SAFE GROUNDWATER CONSUMPTION	Mehedi Hashan Riad
749	URBAN ACCESSIBILITY METRICS: CONSTRUCTING WALKABILITY INDICES FOR SHOPPING AND DINING PEDESTRIAN ACTIVITIES IN CHATTOGRAM CITY	Sajib Sarker
760	IMPACT OF RADIO FREQUENCY FROM MOBILE COMMUNICATION ON COCOS NUCIFERA: A CASE STUDY FROM KHULNA, BANGLADESH	Dr. Md. Abdullah Yousuf Al Harun
769	ASSESSING WATER QUALITY OF SHELA RIVER IN BANGLADESH USING GOOGLE EARTH ENGINE: A REMOTE SENSING APPROACH FOR SPATIOTEMPORAL ANALYSIS	Nafis Islam
802	WASTEWATER REMEDIATION WITH BACILLUS SUBTILIS	Paromita Datta Ray
804	SPATIAL ANALYSIS OF SOURCES OF LIGHT POLLUTION IN BARISHAL, BANGLADESH	MD. Mahdi Hasan
838	ENVIRONMENTAL MONITORING OF THE TONGI-BHAIRAB BAZAR DOUBLE TRACK RAILWAY CONSTRUCTION PROJECT IN BANGLADESH	Mahabub SADIQ
1003	AIR QUALITY TRENDS AND THEIR ASSOCIATION WITH URBANIZATION IN MAJOR CITIES IN BANGLADESH: A REMOTE SENSING AND GIS-BASED STATISTICAL STUDY	Khalidur Rahman

Technical Session Information



Session: **C6**
Session Chair: **Prof. Dr. Md. Reaz Akter Mullick**
Room No: **1228**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
15	PEDESTRIANS' ACCESS TO FREE DRINKING WATER, SANITATION AND HYGIENE: A CASE STUDY FROM DHAKA NORTH CITY CORPORATION	Arafat Monjil
297	GIS AND RS-BASED DELINEATION OF GROUNDWATER RECHARGE POTENTIAL ZONES IN BOGRA USING AHP	MD NAHID HOSSAIN JOY MD NAHID HOSSAIN JOY
534	ESTIMATING RIVER DISCHARGE AND SUSPENDED SEDIMENT CONCENTRATION USING LANDSAT IMAGES AND GOOGLE EARTH ENGINE CLOUD COMPUTING FOR THE ARIALKHAN RIVER IN BANGLADESH	Sumiya Ferdhous Md. Moniruzzaman Mst. Fatema Khatun
778	REMOVAL OF SODIUM & BORON FROM GREYWATER: AN APPROACH TO OVERCOME IRRIGATION WATER SCARCITY	Md. Asiful Haque Judge
919	A COMPREHENSIVE INTEGRATED WATER RESOURCES MANAGEMENT (IWRM) PLAN FOR THE DHARLA RIVER BASIN: IDENTIFYING HUMAN IMPACT ON WATER RESOURCES	Nafis Intiaj Hossain
1175	IMPACTS ASSESSMENT ON THE KARNAPHULI RIVER WATER QUALITIES DUE TO INDUSTRIAL WASTES	Susmith Kundu
1181	A CASE STUDY ON WATER DISTRIBUTION DESIGN AND MODELLING IN A HILLY AREA	Aysha Akter Faria Golondaz Raisa

Technical Session Information



Session: **D6**
Session Chair: **Prof. Dr. Swapan Kumar Palit**
Room No: **1229**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
32	THE EFFECT OF GEO-REINFORCEMENT ON THE IMPROVEMENT OF CALIFORNIA BEARING RATIO (CBR) OF SUBGRADE	RAFA TABASSUM MD. NAZMUL HOSEN
49	SPEED BEHAVIOR ON VARIOUS TYPES OF ROADS IN BANGLADESH AND KEY CHOICE FACTORS	S M SOHEL Mahmud
55	ANALYZING THE ROBUSTNESS OF ADAPTIVE TRAFFIC CONTROL SYSTEM USING REINFORCEMENT LEARNING FOR URBAN TRAFFIC FLOW	Ferdous Al Rafi
73	THE PARADIGM SHIFT OF ROAD TRANSPORTATION IN THE TWENTY-FIRST CENTURY, CONTEXT: DHAKA, BANGLADESH	Md. Samiul Karim Khan
81	BEHAVIOUR OF BALLASED RAILWAY TRACK UNDER MOVING LOAD	Nirmal Chandra Roy
105	IMPROVEMENT OF NATURAL SUBGRADE SOIL FOR ROAD CONSTRUCTION BY THE USE OF SUGARCANE FIBER	Md. Abu Sayeed
182	ASSESSMENT OF TRANSPORTATION SCENARIO EFFICIENCY THROUGH TRANSPORT MODELING (TRIP GENERATION & DISTRIBUTION): A CASE STUDY IN THE BOGURA POURASOVA AREA.	Liton Chandra Das Liton Chandra Das
377	PERCEPTIONS AND PERFORMANCE: A COMBINED ASSESSMENT OF STREET LIGHTING IN RAJSHAHI CITY	S M Aumlan Islam Rupak Md.Asiquel Islam
1042	THE EFFECTS ON FLEXIBLE PAVEMENT OF ADDING FLY ASH AND ANIMAL BONE ASH AS REPLACEMENTS OF FILLER AND RECRON-3S FIBER AS ADMIXTURE	MOHAMMAD HASAN MAHMUD MAZUMDAR

Technical Session Information



Session: **F6**
 Session Chair: **Prof. Dr. Munsur Rahman, IWFM**
 Room No: **1302**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/91630758767>)**

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
108	MORPHOLOGICAL STUDY OF THE LOWER REACH OF SANGU RIVER USING ARCGIS	Devjani Datta Payel
529	A STUDY ON HYDRO-MORPHODYNAMIC BEHAVIOUR OF THE KIRTANKHOLA RIVER USING DELFT3D MODEL	Noman Rahman
727	ASSESSMENT OF URBAN WATER GOVERNANCE: A CASE STUDY OF RAJSHAHI CITY CORPORATION, BANGLADESH	Abu Shad Mehedi Hashan Riad
797	RIVERBANK EROSION RISK FORECAST USING KALMAN FILTER MODEL FOR SANGU AND MATAMUHURI RIVERS	Maisha Ferdousi
868	ENHANCING RIVER VULNERABILITY ASSESSMENT IN THE GANGES REACH OF THE PADMA RIVER: A MIKE 21C BASED APPROACH	RAFSAN AL AMIN
943	EXPERIMENTAL INVESTIGATION OF 3D FLOW FIELD AROUND GROIN FOR DIFFERENT ORIENTATIONS	Atikur Rahman Rana
945	FIELD INVESTIGATION ON SEASONAL VARIATION IN DISCHARGE OF BHAIRAB RIVER	Atikur Rahman Rana
1068	CLIMATE CHANGE IMPACT ON THE FUTURE STREAMFLOW OF THE SURMA RIVER IN SYLHET REGION USING ARCSWAT	Musabbir Turjo
1170	CLIMATE CHANGE IMPACT ON IRRIGATION WATER DEMAND IN NORTH-EAST BANGLADESH USING ML AND CROPWAT 8.0 MODEL	Md Sifat Sarkar

Technical Session Information



Session: **G6**
 Session Chair: **Prof. Dr. Muhammad Azizul Hoque, SUST**
 Room No: **1343**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/95070714733>)**

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
820	BALANCING ENERGY EFFICIENCY AND HUMAN COMFORT: BIOCLIMATIC APPROACHES FOR ENERGY-EFFICIENT HIGH-RISE LIVING IN BANGLADESH'S URBAN CONTEXT	Hridoy Debnath
851	PLASTIC POLYMER IDENTIFICATION OF INFORMALLY RECOVERED WASTE FROM OPEN DUMP SITE IN KHULNA USING NEAR-INFRARED SPECTROSCOPY	Syeda Tasnova Imam
867	EFFICIENT WASTE MANAGEMENT IN KHULNA: AN EVALUATION OF THE SECONDARY WASTE COLLECTOR VEHICLE FLEET	ANKON BARAL
872	ASSESSMENT OF WASTE MANAGEMENT SCENARIO OF SECONDARY TRANSFER STATIONS IN KHULNA CITY	Sourav Saha
879	INVESTIGATING THE POTENTIALITY OF DIVERSIFYING INCOME SOURCES TO MITIGATE THE EFFECTS OF DROUGHT ON RURAL AREAS AND ENSURE A GOOD QUALITY OF LIFE	MD SAYADUL MURSALIN
892	NIR CHARACTERIZATION OF MISMANAGED PLASTIC WASTE GENERATED IN BANGLADESH	Tanvir Ahmed Tanvir Ahmed
893	MICROCLIMATIC STUDY OF DIFFERENT URBAN HEAT ISLAND MITIGATION STRATEGIES IN A SELECTED LOCATION OF DHAKA	Rohan Itmam Rayan
896	RENEWABLE ENERGY INTEGRATION IN WATER TREATMENT PLANTS FOR ENVIRONMENTAL IMPACT REDUCTION	Sagar Chandra Roy
1124	EXPLORING LOCAL USER PERCEPTION REGARDING PROPOSED PARKS OF DHAKA METROPOLITAN AREA UNDER DETAILED AREA PLAN	Noshin Nawar

Technical Session Information



Session: **H6**
 Session Chair: **Prof. Dr. Md. Rokonuzzaman, KUET**
 Room No: **1344**
 Presentation Mode: **Online (<https://bdren.zoom.us/j/95641728190>)**

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
38	ANALYSIS OF POTENTIAL DIFFERENTIAL SETTLEMENT LOCATION FOR METRO LINE 1, DHAKA	Sharmin Ara Sarna Mahmudul Hasan Sohel
137	EFFECTIVENESS OF VARIOUS SUPPLEMENTARY CEMENTITIOUS MATERIALS IN SOIL STABILIZATION: A REVIEW	Promita Chakraborty
194	BEHAVIOR OF SINGLE PILE IN COHESIONLESS SOIL ON HORIZONTAL & SLOPING GROUND SURFACE UNDER LATERAL LOADING	Md. Enamul Islam Bhuiyan Meraj
237	COMPRESSION BEHAVIOR OF EXPANSIVE SOIL IN HYDROSTATIC TRIAXIAL TEST	Dr. Syed Abdul Mofiz
240	EVALUATION AND GEOSPATIAL COMPARISON OF SOIL BEARING CAPACITY AND USCS SOIL CLASSIFICATIONS ACROSS DMDP AREA OF BANGLADESH	Dipro Biswas
272	MACHINE LEARNING APPROACHES FOR PREDICTING UNCONFINED COMPRESSIVE STRENGTH OF SOIL STABILIZED WITH CEMENT, LIME AND RHA	Prince Paul
342	ESTABLISHING CORRELATIONS BETWEEN FIELD CBR VALUES AND SOIL PROPERTIES OF SILTY SAND FOR SUBGRADE ASSESSMENT	Mumtahmina Mim
430	AN EXPERIMENTAL STUDY ON CEMENT STABILIZATION OF HIGHLY ORGANIC SOIL	Mahmudur Rahman
491	BIO-CEMENTATION OF SAND THROUGH CYANOBACTERIA INDUCED CALCITE PRECIPITATION FOR SUSTAINABLE SOIL STABILIZATION	Nabid Hasnat
1030	ULTIMATE BEARING CAPACITY OF SHALLOW FOUNDATION AROUND DHAKA CITY USING CPT AND SPT	Dipro Biswas
1072	EVALUATING IN-SITU SOIL STIFFNESS AND LOAD-SETTLEMENT BEHAVIOR IN IMPROVED SUBGRADE SOIL: INSIGHTS FROM STATIC PLATE LOAD TESTS	Promita Chakraborty

Technical Session Information



Session: **I6**
Session Chair: **Dr. Mursheda Rahman**
Room No: **1202**
Presentation Mode: **In-Person**

Date: 13-Dec-24
Time: 16:15-17:45

Paper ID	Paper Title	Registered Authors
397	A STUDY OF VEHICLE-PEDESTRIAN JAYWALK INTERACTIONS AT MEDIAN ROAD LOCATIONS IN DHAKA CITY, BANGLADESH: USING YOLOV8 AND IMAGE PROCESSING	MD. Ihfaz Sindid Hassan
455	SIGNAL DESIGN OF FOUR-LEGGED INTERSECTION BY USING WEBSTER'S METHOD AT SAHEB BAZAR ZERO-POINT MOR, RAJSHAHI, BANGLADESH	Md. Tasneem Ahmed Shuvo
464	ASSESSMENT OF MOTORCYCLE RIDE-HAILING SERVICES USING ADVANCED STATISTICAL MODELLING	Israk Mahmud
686	FEASIBILITY OF THE 15-MINUTE CITY IN DHAKA: A SUSTAINABLE APPROACH TO NAVIGATE TRANSPORTATION DYNAMICS AND URBAN DEVELOPMENT	Nadira Islam Nila
731	FEASIBILITY ANALYSIS OF THE HIGH-SPEED RAIL IN THE DHAKA-CHATTOGRAM-COX'S BAZAR ROUTE	Safkat Ar Rumman
745	ANALYSIS OF MOTORCYCLE CRASH FREQUENCY AND FATALITY IN BANGLADESH: A COMPARATIVE STUDY WITH GLOBAL TRENDS	Md. Ehsanul Saad