

Day 1 – Friday, December 15, 2023 - Syed Mehmood UI Hassan Auditorium, NED University	
SESSION TIME	AGENDA
14:30 - 15:00	Registration and Seating
15:00 - 16:30	<p style="text-align: center;">Day -1 December 15, 2023 – Inaugural Session</p> <p>15:00 – 15:05 Recitation from the Holy Quran 15:05 – 15:10 National Anthem 15:10 – 15:20 Welcome Address and Conference Overview by Conference Chair Prof. Dr. Asad Ur Rehman Khan, Dean CPL 15:20 – 15:30 Address by PATRON-IN-CHIEF, TECH-IEM-2023 Dr. Sarosh H. Lodi, Vice Chancellor, NED University 15:30 – 16:00 Keynote Address: Dr. Naveed Anwar, Asian Institute of Technology Title: Application of Emerging Technologies in Bridge Lifecycle 16:00 – 16:10 Address by the Guest of Honor 16:10 – 16:20 Address by the Chief Guest 16:20 – 16:25 Presentation of Mementos 16:25 – 16:30 Group Photograph</p>
16:30 - 17:00	Asr Namaz Break/Hi-Tea
17:00- 17:45	Plenary Session- CPEC CRG Project <ul style="list-style-type: none"> Overview of Project Concept and Achievements: Prof. Dr. Asad Ur Rehman Khan IoT Integration into Structural Health Monitoring of Civil Infrastructure – Prof. Dr. Saad Ahmed Qazi
17:45 - 18:00	Maghrib Namaz Break
18:00- 19:00	Panel Discussion: Challenges in Civil Infrastructure Development Management in Pakistan-Issues and Learning from International Experience <ul style="list-style-type: none"> Dr. Sarosh H. Lodi, Vice Chancellor, NED University, Chairman Trans Karachi Engr. Sohail Bashir, Chairman, IEP Karachi Center Mr. Javed Kureishi, Chairman, BOD, Sindh Infrastructure Development Co. Ltd. (SIDCL). Syed Salahuddin Ahmed, PAS, Managing Director/CEO, Karachi Water and Sewerage Corporation Dr. Naveed Anwar, Asian Institute of Technology, Thailand Dr. Raza Ali Khan, Chairperson Department of Economic and Management Sciences Moderated by: Dr. Farrukh Arif, Focal Person/Co-chair, TECH-IEM
19:00- 20:00	Conference Dinner

	Day 2- Technical Session 1 09:30 – 11:00 am Venue: Ashraf Habibullah A/V Hall Session Chair Mr. Naeem Uddin Ahmed Siddiqui, CEO, Ziauddin Ahmed & Co. Pvt. Ltd. Moderator Dr. Fawwad Masood	Day 2- Technical Session 2 09:30 – 11:00 am Venue: Mechanical A/V Hall Session Chair Prof. Dr. Adnan Qadir Chairperson, Department of Urban & Infrastructure Engineering, NED University Moderator Dr. Syed Salman Mobeen
09:30 -10:00	Conceptual Framework for IoT-based Structural Health Monitoring of RC Bridges for Maintenance Decision-Making <i>Dr. Farrukh Arif, Engr. Laiba Ayub, Engr. Filza Ahmed Khan, Prof. Dr. Asad-ur-Rehman Khan</i>	Impact of Fare Change on The Travelers and Management of Orange Line Metro Train, Lahore <i>Muhammad Adil, Obaidullah Nadeem, Muhammad Amama, Muhammad Umair, Muhammad Faraz Sajid</i>
10:00-10:15	Initial Approach to A Self-Compacting Concrete with Waste from Crushed Wind Turbine Blade <i>Manuel Hernando-Revenga, Nerea Hurtado-Alonso, Javier Manso- Morato, VÁ•Ctor Revilla-Cuesta, Marta Skaf, Vanesa Ortega-LÁPez</i>	Use of IoT-based Technologies for determination of Traffic Congestion on Road Infrastructure <i>Mirza Asad Ullah Baig, Ashar Ahmed, Muhammad Owais</i>
10:15-10:30	Combination of Catalytic Ozonation and Conventional Coagulation Process for an Efficient Canal Wastewater Recycling <i>Fatima Ashfaq, Ali Ajwad</i>	Evaluating Profitability of Traditional Taxi Services in Urban Arteries <i>Nihat Can Karabulut, Halit Ozen</i>
10:30-10:45	Finite Element Analysis of Concrete Flexural Members Reinforced with Smart FRP Composites <i>Muhammad Hamza, Ali Raza, Ahmed Ijaz, Hamad Ali</i>	Causes of Contractual Conflicts in CPEC Projects: Two Case Studies <i>Fahad Aslam, Abdullah, Inaya Mahnoor, Abdul Hanan, Muhammad Jawad</i>
10:45-11:00		A Review on Introducing Fibers in Concrete for Blocks, Pavers and Kerbstone <i>Rashid Ahmed, Majid Ali</i>
11:00-11:15	Tea Break & Networking	

	<p>Day 2- Technical Session 3 11:15 – 12:45 pm Venue: Ashraf Habibullah A/V Hall</p> <p>Session Chairs Prof. Dr. Abdul Jabbar Sangi Chairperson, Department of Civil Engineering, NED University</p> <p>Moderator Dr. Fawwad Masood</p>	<p>Day 2- Technical Session 4 11:15 – 12:45 pm Venue: Mechanical A/V Hall</p> <p>Session Chairs Engr. Al Kazim Mansoor Vice Chairman (Civil), IEP Karachi Center</p> <p>Moderator Dr. Syed Salman Mobeen</p>
11:15 -11:45	<p>Technology Driven Solutions for AEC Industry - Case Studies</p> <p>Ghulam Mujtaba Sheikh, Industry Presentation</p>	<p><i>The study of column shrinkage and solution with fiber reinforced composites</i></p> <p>Muhammad Dawood Khan, Majid Ali</p>
11:45-12:00	<p>Flexural behaviour of sustainable 3D printed auxetic embedded cementitious composites</p> <p>Tatheer Zahra, Mohammad Asad, Sabrina Fawzia, Julian Tahmboo</p>	<p>Effect of Bentonite & Polypropylene Fibres on Fresh and Hardened Properties of Geopolymer Concrete with Slag and Alkali Solution</p> <p>Sameer Ali, Rana Muhammad Waqas</p>
12:00-12:15	<p>Considering Fiber Reinforced Concrete Below Neutral Axis of Beam for Shallow Sections - A Review</p> <p>Waseem Akram, Majid Ali</p>	<p>Optimizing Slab Thickness by Enhancing Concrete Flexural Capacity Using FRC-An Overview</p> <p>Saad Arshad, Majid Ali</p>
12:15-12:30	<p>LiDAR-UAV integrated Digitization of Civil Infrastructure for Visualization of Physical Condition</p> <p>Dr. Farrukh Arif, Waleed Ahmed Khan</p>	<p>Utilization of Sustainable and Smart Materials in Slender Shear Walls- A Deep Insight</p> <p>Muhammad Amir, Majid Ali</p>
12:30-12:45	<p>Economizing manhole covers with fiber reinforced concrete A review</p> <p>Yousaf Khan, Majid Ali</p>	<p>Enhancing building Insulation with Fibre Concrete on Roof - a Research review</p> <p>Noman Shahzad, Majid Ali</p>
12:45– 14:00	Lunch & Prayers Break	

	<p>Day 2- Technical Session 5 14:00 – 15: 30 Venue: Ashraf Habibullah A/V Hall</p> <p>Session Chair Prof. Dr S.F.A Rafeeqi Professor Emeritus, NED University</p> <p>Moderator Dr. Fawwad Masood</p>	<p>Day 2- Technical Session6 14:00 – 15: 30 Venue: Mechanical A/V Hall</p> <p>Session Chair Mir Salman Managing Director, CostFit</p> <p>Moderator Dr. Syed Salman Mobeen</p>
14:00 -14:30	<p>Tsunami-Resilient Building Assessment for Coastal Community of Karachi</p> <p>Muhammad Ali Raza, Aslam Faqeer Mohammad</p>	<p>An Overview on The Behavior of Fiber Reinforced Concrete for Controlling the Rate of Cracking in Canal-Lining</p> <p>Saif Rehman, Majid Ali</p>
14:30-14:45	<p>Review of the short term compressive properties of single skin confined seawater sea sand concrete columns with FRP wrapping</p> <p>Chitransh Shrivastava, Nor Hafizah Ramli Sulong, Zahra Tatheer, Dr Sabrina Fawzia</p>	<p>Investigation of Robustness of Steel Moment Frames Using Push-Down Analysis</p> <p>Ali Ajwad, Antonella Bianca Francavilla</p>
14:45-15:00	<p>A Review on Improving the Design and Performance of Rigid Pavements with Fiber Concrete</p> <p>Arshad Ullah, Majid Ali</p>	<p>Effect of Petrography of Aggregate on Rutting Behaviour of Asphalt Mixture</p> <p>Syed Shabih Ul Hassan, Imran Hafeez, Tausif Pattal, Usman Azeem</p>
15:00-15:15	<p>An Overview on Utilization of Fibers in Precast Members</p> <p>Haider Masaud, Majid Ali</p>	<p>An Overview on Tapping the Potential of Treated Waste Water for Concrete Curing to Ensure Sustainability</p> <p>Zeenat Khan, Majid Ali</p>
15:15-15:30	<p>An Insight into Pavement Maintenance with Fiber Concrete Overlays</p> <p>Naseeb Shah, Majid Ali</p>	<p>Experimental study on bond performance between concrete and BFRP bars</p> <p>Muhammad Saad Ifrahim, Dr. Abdul Jabbar Sangi, Shaista Khan</p>

Day 2 – Saturday, December 16, 2023, Ashraf Habib Ullah Civil A/V Hall	
SESSION TIME	AGENDA
9:30 - 11:00	Parallel Technical Sessions (Ashraf Habib Ullah Civil A/V Hall/Mechanical A/V Hall)
11:00 - 11:30	Networking and Tea Break
11:30 - 13:00	Parallel Technical Sessions (Ashraf Habib Ullah Civil A/V Hall/Mechanical A/V Hall)
13:00- 14:00	Lunch and Prayer Break
14:00 – 15:30	Parallel Technical Sessions (Ashraf Habib Ullah Civil A/V Hall/Mechanical A/V Hall)
15:30- 16:45	<p>Day -2 December 16, 2023 –Closing Session Ashraf Habib Ullah Civil A/V Hall</p> <p>15:30 – 15:35 Recitation from the Holy Quran 15:35 – 15:40 National Anthem 15:40 – 15:50 Conference Highlights Dr. Abdul Jabbar Sangi, Chairman, Civil Engineering, NED University</p> <p>15:50 – 16:15 Keynote Address: Prof. Dr. Mehmet Emre Bayraktar School of Construction & Design, University of Southern Mississippi, USA</p> <p>16:15 – 16:25 Address by the Guest of Honor 16:25 – 16:35 Address by the Chief Guest 16:35 – 16:40 Presentation of Mementos 16:40 – 16:45 Vote of Thanks by Conference Secretary Dr. Shamsoon Fareed</p> <p>16:45 Group Photograph</p>
16:45 – 17:00	Asr Prayer Break
17:00 – 17:30	Hi Tea