

International Seminar on

# Construction 4.0: Digital Transformation for Success

Leveraging Innovative Technologies for Revolutionizing the Future of AEC Industry



**Thu, March 24, 2022**

Video Conferencing Hall  
Department of Civil Engineering  
NED University, Karachi

Bringing all key stakeholders on one platform including the **academia, industry and government**, this technical seminar endeavours to provide a forum for exploring, discussing and debating on Construction 4.0 technologies with particular reference to their adoption in the Pakistani Architecture, Engineering and Construction Industry for transforming it into **Smart, Sustainable and Safe built environment**.

## Focal Person

**Prof. Rizwan U. Farooqui**

Professor & Chair, Department of Civil Engineering  
Focal Person, Building Information Modeling Center  
NED University of Engineering & Technology, Karachi  
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## Programme

### Time

9:30 am – 09:35 am  
9:35 am – 09:45 am  
9:45 am – 10:45 am

10:45 am – 11:15 am  
11:15 am – 11:30 am  
11:30 am – 12:00 pm  
12:00 pm – 12:50 pm  
12:50 pm – 01:00 pm

01:00 pm – 02:00 pm  
02:00 pm – 03:00 pm

03:00 pm – 03:30 pm

03:30 pm – 04:00 pm

04:00 pm – 04:15 pm

04:15 pm

### Details

Recitation

Welcome Note – Prof. Rizwan U. Farooqui

Keynote Address: “Construction 4.0 – Concepts and Emerging Technologies” – Dr. Salman Azhar (Auburn University, USA)

Inaugural Session Guest Speeches

Memento Distribution and Group Photo

Refreshments and Networking

Panel Discussion & Q/A Session

*Electric Arc Furnace (EAF) Technology in Green Steel Manufacturing* – Mr. Hussain Agha

Prayer and Lunch Break

*Overview of BIM and Demonstration with Project Case Studies* – Dr. Salman Azhar

*Virtual Reality (VR) Application in Construction* – Dr. Farrukh Arif

*Unmanned Aerial Vehicle (UAV) Application in Construction* – Engr. Shoaib Ahmed

*IoT Enabled Worker Safety Monitoring System* – Prof. Rizwan U. Farooqui

Vote of Thanks and Refreshments

## Who Should Attend?

Owners/ Clients, Architects, Engineers, Consultants, Contractors, Builders, Developers, Government Officials, Project Managers, Construction Managers, BIM Professionals, Surveyors, ICT Solution Providers, Academicians, Students and anyone related to AEC Industry.

## Key Takeaways

Comprehensive Awareness of Emerging Technologies of Construction 4.0 along with Exposure to their Applications in the Local and Global Perspectives

## Speakers



**Dr. Salman Azhar**  
(Foreign Keynote)  
William A. Hunt Endowed  
Professor and Graduate  
Programs Chair  
McWhorter School of  
Building Science



**Prof. Rizwan U. Farooqui**  
(Focal Person)  
Professor & Chair  
Department of Civil Engineering  
Focal Person, Building Information Modeling  
Center, NED University



**Dr. Farrukh Arif**  
Associate Professor  
Department of Civil Engineering  
NED University, Karachi



**Engr. Shoaib Ahmed**  
Assistant Professor  
Department of Civil Engineering  
NED University, Karachi



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