

Assistant Professor  
 Department of Architecture  
 Faculty of Architecture & Ekistics  
 Jamia Millia Islamia, New Delhi, India  
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**Objective** To utilize my teaching skills towards a challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the university and society.

## Educational Qualification

Course Name	Duration	Board/ University	Division/CGPA
Ph.D. in Civil Engineering	Pursuing	J.M.I.	-
M. Tech. (Earthquake Engineering)	2013 - 15	J.M.I.	First with Dist. (8.39-CGPA)
B. Tech. (Civil Engineering)	2009 - 13	J.M.I.	First (7.23-CPI)

## Present Employment

Employer's Name	<b>Faculty of Architecture &amp; Ekistics, J.M.I., New Delhi</b>
University Website	<a href="http://jmi.ac.in/architecture/faculty-members">http://jmi.ac.in/architecture/faculty-members</a>
September, 2015 - Till date	Assistant Professor (Structural Engineering)
Subjects	<ul style="list-style-type: none"> <li>• <b>Theory of Structures-I</b> (Hooke's Law, Center of Gravity, Moment of Inertia, Shear Force and Bending Moment for Concentrated and UDL, Analysis of Trusses, Moment Area Method, Conjugate Beam Method and Euler's Formula)</li> <li>• <b>Theory of Structures-II</b> (Determinacy and Indeterminacy, Virtual Work Method, Castigliano's Theorems, Three Moment Theorem, Moment Distribution Method, Design Philosophies, Analysis and Design of Beam section for Flexure, Detailing of Reinforcement and Introduction to one-way and two-way Slabs)</li> <li>• <b>Theory of Structures-III</b> (Design of Column, Elements of Soil Mechanics, Type of foundation and design of isolated footings, Design of Staircase, Theory of Riveted and Welded connections).</li> <li>• <b>Theory of Structures-IV</b> (Elements of Earthquake Engineering, Zoning, Base Shear, Lateral Forces, Ductile Detailing, Design using STAAD.pro, Different types of structural systems and Structural systems for Seismic Zone)</li> <li>• <b>Survey &amp; Leveling</b> (Introduction, Chain Survey, Compass Survey, Leveling, Plane Table and Contouring)</li> </ul>

## Previous Employment

Employer's Name	<b>Faculty of Engineering &amp; Technology, J.M.I., New Delhi</b>
University Website	<a href="http://www.jmi.ac.in">http://www.jmi.ac.in</a>
02 Sep/15 - 12 Sep/15	Guest Lecturer
	<ul style="list-style-type: none"> <li>• Elements of Civil Engineering (Stress, Strain, Stress-Strain Curve,</li> </ul>

	Hooke's Law and Stress in composite bars)
<b>Employer's Name</b>	<b>HI-TECH Institute of Engineering &amp; Technology, Ghaziabad, U.P.</b>
College Website	<a href="http://www.hiet.org">http://www.hiet.org</a>
August/15 – September/15	Assistant Professor
Subjects taught	<ul style="list-style-type: none"> <li>Survey &amp; Leveling (Introduction, Chain Survey and Compass Survey)</li> </ul>
<b>Employer's Name</b>	<b>Noida International University, Greater Noida, U.P.</b>
University Website	<a href="mailto:info@microxsolutions.com">info@microxsolutions.com</a>
January/15 – May/15	Guest Lecturer
Subjects taught	<ul style="list-style-type: none"> <li>Design of Structures-I (Design Philosophies, Design of Beam Section, Design of Columns and Basics of Design of Staircase)</li> </ul>
<b>Employer's Name</b>	<b>IIMT College of Engineering, Greater Noida, U.P.</b>
College Website	<a href="http://www.iimtindia.net">http://www.iimtindia.net</a>
August/14 – December/14	Assistant Professor
Subjects taught	<ul style="list-style-type: none"> <li>STAAD.pro</li> </ul>

## Technical Skills

**Design Softwares:** STAAD.pro, SAP2000, ETABS, MATLAB, Primavera, ANSYS

**Operating System:** Windows 98/2000/Xp/Vista/Windows 7/Windows 8/Windows 8.1

## Projects

Ph.D. in Civil Engineering (Pursuing)		
Softwares	Title	Brief
<ul style="list-style-type: none"> <li>SAP2000</li> <li>SeismoSignal</li> <li>Origin</li> <li>MATLAB</li> <li>Microsoft Office (Word, Excel and PowerPoint)</li> </ul>	Damage Assessment of RC bridge under ground motions	A simply supported RC bridge of four spans has been modeled in SAP2000 with fixed base and with flexible base. Response of the bridge is to be assessed by performing IDA and fragility analyses, when it is subjected to far-field ground motions, near-field ground motions with high and low directivity, and near-fault ground motions with fling step.
M. Tech in Earthquake Engineering		
Softwares	Title	Brief
<ul style="list-style-type: none"> <li>SAP2000</li> <li>ETABS</li> <li>Microsoft Office (Word, Excel and PowerPoint)</li> </ul>	Progressive Collapse Analysis on R.C Building for Different Standards	A 3D finite element model of 6 storey building was modeled to perform the analysis. Structural behavior of building under unusual loss of column at different locations, as recommended by General Services Administration (GSA, 2003) and Department of Defense (DoD 2005), was assessed in detail.
B. Tech in Civil Engineering Team Size: 04		
Softwares	Title	Brief
<ul style="list-style-type: none"> <li>STAAD.pro</li> <li>Microsoft Office (Word, Excel and PowerPoint)</li> </ul>	Design of T-beam Concrete Bridges	A Tee-Beam reinforced concrete bridge was proposed in Ghaziabad, U.P., near Sai Mandir. The bridge was designed manually using IRC 21:2000, IRC 6:2000 and IS 456:2000. The bridge deck was designed by Pigeaud's curves; longitudinal girders were designed by Courbon's method. Working Stress Method was adopted for both analysis and design and maximum bending condition

was then checked using STAAD.pro.

## Publications

- **PROGRESSIVE COLLAPSE ANALYSIS OF AN INDUSTRIAL RC BUILDING USING P-M INTERACTION: AN ANALYTICAL STUDY** (Industrial Engineering Journal, ISSN 0970-2555) **PUBLISHED**

In this study, SAP2000 was used to examine a reinforced concrete building. The recommendations of the General Services Administration (GSA) and the Department of Defense (DoD) were adopted to anticipate the total amount of collapse. The notion of the study is to consider the most adverse scenario and suggest the best approach amongst the two, which may help in performing future studies in less time.

- **Comparison in Seismic Behaviour between Base Isolated Building and Conventional Building by Analytical Method** (International Journal of Innovative Research and Development, ISSN 2278-0211) **PUBLISHED**

A case study has been taken up to compare the response of base isolated building with that of a conventionally designed earthquake resistant building. The finite element software SAP2000 has been used for modeling and analysis. Non-linear static pushover analysis and non-linear time history analysis have been performed to study the response of base isolated building as well as fixed base conventionally designed building.

- **Progressive Collapse Analysis of RC Building Using Non-Linear Analysis** (International Conference and Exhibition on Building Utilities, ISBN 978-163535676-2, Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi 110025) **PUBLISHED**

Structural behavior of building under unusual loss of column at different locations, as recommended by General Services Administration (GSA, 2003), was assessed in detail. SAP2000 was used to perform the non-linear analysis. Non-Linear Analysis procedures were adopted as per the recommendation of General Services Administration (GSA, 2003).

## International Conference, Seminar, Workshops & Exhibition

- 5<sup>th</sup> International Conference on Trends & Recent Advances in Civil Engineering, TRACE 2024, Department of Civil Engineering, Amity School of Engineering & Technology, Amity University, NOIDA, UP. 15<sup>th</sup> – 16<sup>th</sup> October, 2024

Paper presentation on “**Impact of Pulse-like ground motions with Directivity Effect on Seismic Vulnerability Assessment of RC bridges**”.

Paper presentation on “**Damage Assessment of Continuous RC Bridge under Near-Field ground motions with High Directivity**”.

- International Conference and Exhibition on Building Utilities, Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi

Paper Presentation on “**Progressive Collapse Analysis of RC Building Using Non-Linear Analysis**” in which Structural behavior of building under unusual loss of column at different locations, as recommended by General Services Administration (GSA, 2003), was assessed in detail.

- International Workshop on Indo-Egyptian Architecture, 02<sup>nd</sup> - 03<sup>rd</sup> February 2016, Faculty of Architecture & Ekistics, Jamia Millia Islamia, New Delhi - **ATTENDED**

# Extra-Curricular Activities

## Departmental level

- **Administrative Responsibilities**

- **Coordinator** for Bamboo Workshop
- **Coordinator** for Survey Lab
- **Coordinator** for Faculty Website upgradation and maintenance
- **Guided** thesis students for structure related issues (Batch Size: 70-80)
- Preparing data for miscellaneous administrations work

- Organizing team member of:

- Freshers party 2015, 2016
- Education Day ( birth anniversary of Maulana Abul Kalam Azad), 2015
- Talimi Mela (Jamia Foundation Day), 2016
- Fenestration (Student Fest), 2016
- Earth Day Celebration, 2016

- **Educational Tour**

Helped in organizing and conducting the tours of 1<sup>st</sup> year in 2015, 2<sup>nd</sup> and 3<sup>rd</sup> year in 2017. Batch size varies from 38 to 41 students.

## Student Level

- Worked as a volunteer in Common Wealth Games, 2010, New Delhi.
- Qualified NCC A Certificate in 2004, 4-Delhi Battalion.

## Personal Details

<b>Language Known:</b>	Hindi (R/W/S), English (R/W/S), Urdu (R/W/S)
<b>Nationality:</b>	Indian
<b>Passport:</b>	Available
<b>Interests:</b>	Playing Chess and basketball, Listening Music and Traveling.
<b>Correspondence Address:</b>	B-79, Mujeeb Bagh, Jamia Staff Quarters, Jamia Nagar, New Delhi – 110025
<b>Contact Number:</b>	+91-9654085129
<b>Email ID:</b>	<a href="mailto:fahad.khurshid90@gmail.com">fahad.khurshid90@gmail.com</a>
<b>Date of Birth:</b>	February 18 1990

\*References on request

(Fahad Bin Khurshid)