

Curriculum Vitae



Brief Profile: Assistant Professor, Mohammad Umair is working at Department of Civil Engineering, Jamia Millia Islamia since 19.07.2002 till date. He did PhD. From Department of Civil Engineering, IIT Delhi in Oct.' 2014 in Structures. His area of interest includes Analysis and Design of RC Structures, Dynamics of Structures, Reliability of Structures, Offshore Structures etc.

1. **Name:** **Mohammad Umair**
2. **Designation:** Assistant Professor
3. **Office Address:** Department of Civil Engineer ,
Faculty of Engineering and
Technology, Jamia Millia Islamia,
New Delhi – 110025.
4. **Telephone (Direct) (Optional):**
Telephone : 011-26985227
Extn (Optional):
Mobile (Optional): +91-9990736920
5. **Email (Primary):** mumair@jmi.ac.in **Email (Secondary) :**
umairiitd@yahoo.com
6. **Field(s) of Specialization:** Structures
7. **Employment Profile**

| Job Title | Employer | From | To |
|---------------------|----------|------------|-----------|
| Assistant Professor | JMI | 19.07.2002 | Till date |
| | | | |

8. Academic Qualifications (From Highest Degree to High School):

| Examination | Board / University | Year | Division/ Grade | Subjects |
|---------------------|--------------------|------|-----------------|---|
| PhD (Structures) | IIT Delhi | 2014 | | Dynamic Analysis of Offshore Spar Platform and Reliability Assessment of its Mooring System |
| M Tech (Structures) | AMU | 1997 | First | Structures |

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|----------------|-----|------|--------|--|
| B Tech (Civil) | AMU | 1994 | First | Civil Engineering |
| SSSC | AMU | 1990 | Second | PCM with English |
| SSC | AMU | 1988 | Second | Maths, Sc., Soc. Sc., English, Arabic, Theology, Urdu & Hindi. |

9. Academic/Administrative Responsibilities within the University

| Position | Civil Engineering Department | From | To |
|-----------------------|---------------------------------------|------------|------------|
| Lab In-charge | CAD lab | April 2005 | Sep. 2007 |
| Lab In-charge | Structural Dynamics lab | Jan. 2011 | April 2019 |
| Lab In-charge | Building Materials & Construction lab | Jan. 2011 | April 2019 |
| Asstt. Superintendent | B Tech Entrance Test | 2005, 2006 | --- |

10. Academic/Administrative Responsibilities outside the University – N.A.

| Position | Institution | From | To |
|----------|-------------|------|----|
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11. Awards, **Associateships etc.** – N.A.

| Year of Award | Name of the Award | Awarding Organization |
|---------------|-------------------|-----------------------|
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12. Fellowships – N.A.

| Year of Award | Name of the Fellowship | Awarding Organization | From (Month/Year) | To (Month/Year) |
|---------------|------------------------|-----------------------|-------------------|-----------------|
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13. Details of Academic Work

(i) Curriculum Development:

Member of Structure Group who modifies the curriculum time to time.

(ii) Courses taught at Postgraduate and Undergraduate levels:

Postgraduate level: Reliability Based Design, Finite Element Method, Offshore Structures and Structural Dynamics lab.

Undergraduate level: Design of Structures II (Concrete), Design of Structures IV (Concrete), Structural Analysis II, Structural Analysis III, Building Construction and Masonry Design, Elements of Civil Engineering, Elements of Environmental Engineering, Elements of Civil Engineering lab, Structural Analysis lab, Civil Engineering Materials lab, Surveying lab, Geoinformatics lab, Transportation lab, Civil Engineering Drawing lab and Soil Mechanics lab.

Projects guided at Postgraduate level – 14

(iii) Developed a new lab (Structural Dynamics Lab) used at M Tech level.

14. Details of Major R&D Projects – N.A.

| Title of Project | Funding Agency | Duration | | Status |
|------------------|----------------|----------|----|--------------------|
| | | From | To | Ongoing/ Completed |
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15. Number of PhDs guided – N.A.

| Name of the PhD Scholar | Title of PhD Thesis | Role(Supervisor/ Co-Supervisor) | Year of Award |
|-------------------------|---------------------|---------------------------------|---------------|
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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

| Date (s) | Title of Activity | Level of Event (International/ National/ Local) | Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other) | Event Organized by | Venue |
|--------------|---|---|--|-------------------------|----------------------------------|
| 10.8.2010 | Conference on Remote Sensing and GIS for Environmental Management | National | Participant | Civil Engg. Deptt. JMI. | Faculty of Engg. & Tech. JMI. |
| 9-10.01.2004 | Workshop on Seismic Design of Reinforced Concrete Buildings | National | Participant | GoI-UNDP | PhD House, Hauz Khas, New Delhi. |
| | | | | | |

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor) – N.A.

| Title of Activity | Level of Event (International/ National/ Local) | Date (s) | Role | Venue |
|-------------------|---|----------|------|-------|
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18. Invited Talks delivered – N.A.

| Topic | Date | Inviting Organization |
|-------|------|-----------------------|
|-------|------|-----------------------|

19. Membership of Learned Societies – N.A.

| Type of Membership (Ordinary Member/ Honorary Member / Life Member) | Organization | Membership No. with date |
|--|--------------|--------------------------|
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20. Academic Foreign Visits – N. A.

| Country | Duration of Visit | Programme |
|---------|--------------------------|-----------|
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21. Publications

(A) Refereed Research Journals:

| Sr. No | Author(s) | Title of Paper | Journal | Volume (No.) | Page numbers | Year | Impact Factor of the Journal (Optional) |
|--------|---------------------------------------|--|---|--------------|---------------------|------|--|
| | Anas S M, Alam M, and Umair M. | Experimental and Numerical Investigations on Performance of Reinforced Concrete Slabs under Explosive-induced Air-blast Loading: A state-of-the-art review | <i>Structures</i> , Elsevier | 31 | 428-461 | 2021 | |
| | Anas S M, Alam M, and Umair M. | Performance of on-ground double-roof RCC shelter with energy absorption layers under close-in air-blast loading | <i>Asian Journal of Civil Engineering</i> | | | 2021 | |
| | Anas S M, Alam M, and Umair M | Air-blast and ground shockwave parameters, shallow underground blasting, on the ground and buried shallow underground blast-resistant shelters: A review | <i>International Journal of Protective Structures</i> | | | 2021 | |
| | Anas S M, Alam M, and Umair M | Out-of-plane Response of Clay Brick Unreinforced and Strengthened Masonry Walls Under Explosive-induced Air-blast Loading | Lecture Notes in Civil Engineering | 202 | 477-491 | 2021 | |

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|--|-------------------------------|--|--|-----|---------|------|--|
| | Anas S M, Alam M, and Umair M | Influence of Charge Locations on Close-in Air-blast Response of Pre-tensioned Concrete U-girder | Lecture Notes in Civil Engineering | 202 | 513-527 | | |
| | Anas S M, Alam M, and Umair M | Performance of one-way concrete slabs reinforced with conventional and polymer re-bars under air-blast loading | Lecture Notes in Civil Engineering | 135 | 179-191 | 2020 | |
| | Anas S M, Alam M, and Umair M | Performance of one-way composite reinforced concrete slabs under explosive induced blast loading | <u>IOP Conference Series: Earth and Environment</u> <u>al Science</u> | 614 | | 2020 | |
| | M Umair and A.K.Jain | Aerodynamic Response of Offshore Spar Platform | International Journal of Civil and Structural Engineering | 1 | | 2010 | |

(B) Conferences/Workshops/Symposia Proceedings

| Author(s) | Title of Paper | Title of the Proceedings | Page numbers | Conference Theme | Venue | Year |
|--|---|--|--------------|--|---------------------------------|------|
| Jahangeer Aalam and Mohammad Umair | Seismic Analysis of Semi-Rigid Jointed Steel Frame | International conference and Exhibition on Building Utilities 2016 | | International conference and Exhibition on Building Utilities 2016 | Jamia Millia Islamia, New Delhi | 2016 |
| Mohammad Suhail Saifi and Mohammad Umair | Performance Based Design of Shear Ductile Wall With Openings | International conference and Exhibition on Building Utilities 2016 | | International conference and Exhibition on Building Utilities 2016 | Jamia Millia Islamia, New Delhi | 2016 |
| Mirza Amir Baig and Mohammad Umair | In-Place Analysis of Offshore Jacket Platform using Sacs Software | International conference and Exhibition on Building Utilities 2016 | | International conference and Exhibition on Building Utilities 2016 | Jamia Millia Islamia, New Delhi | 2016 |

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|----------------------|---|--------------|---------|---|--------------|------|
| M Umair and A.K.Jain | Dynamic Response Analysis of Offshore Spar Platform | ICAMMM -2010 | | Applied Mechanics, Materials and Manufacturing. | Muscat, Oman | 2010 |
| M Umair and A.K.Jain | Coupled dynamic analysis of deep water floating platforms | VETOMAC-V | 281-285 | Vibration Engineering and Technology of Machinery | Wuhan, China | 2009 |
| | | | | | | |

(C) Books & Monographs – N.A.

| Author(s) | Title of Book/Monograph | Name of Publishers | Year of Publication | ISSN/ISBN Number |
|-----------|-------------------------|--------------------|---------------------|------------------|
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