

# Mohammad Nadeem Akhtar

**M.TECH, Civil Structural Engineering**

LECTURER

Department of Civil Engineering

FAHAD BIN SULTAN UNIVERSITY

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## CARRIER OBJECTIVE

To pursue the challenging and rewarding career of an Engineering Guide who can make the learners bring out their hidden abilities and talents, develop their technical skills and sharpen their learning Skills.

## TEACHING EXPERIENCE: Since Sep 2010 (about 6 years)

1. **Lecturer, Fahad Bin Sultan University (F.B.S.U) K.S.A; Feb 2012 - Till Present Date.**
2. Lecturer, A.C.N. College of Engineering and Management, India; April 2011 to Feb 2012.
3. **Lecturer (Guest faculty), Aligarh Muslim University, Aligarh, India; Feb 2011 to March 2011**
4. Lecturer, A.C.N. College of Engineering and Management, India; Sep 2010 to Feb 2011.

## PROFESSIONAL FIELD EXPERIENCE (5 Years)

1. Engineer in Sir Syed Real Estate Pvt. Ltd. under the project of Construction of shopping complex from 4 May 2005 to 15 July 2009.
2. Engineer in P.W.D. Construction Division (1) Aligarh. Under the project maintenance and repairing of district road from 28<sup>th</sup> April 2003 to 27<sup>th</sup> April 2004
3. Junior Engineer in Foundnex Construction Company Engineering Consultants Govt. Contractors, Jahangir Puri Delhi, under the project maintenance and construction of shopping complex from 24<sup>th</sup> June 2002 to 24<sup>th</sup> April 2003

## ACADEMIC CREDENTIALS

| Examination  | Percentage  | Year Passed | Board  |
|--|---|-------------|--------|
| <b>M.TECH<br/>(Civil Structural Engineering)</b>                   | <b>77%</b><br><b>Third Rank</b>                                     | 2011        | A.M.U. |
| <b>Bachelor of Engineering<br/>(Civil)</b>                         | <b>83.66%</b><br><b>Second Rank</b><br><b>Best Outgoing Student</b> | 2009        | A.M.U. |
|  | <b>Note: Difference between first and second rank 0.008 CPI</b>     |             |        |
| <b>GATE (Qualified)</b>  | <b>84.14</b>  | 2008        | UGC    |
| <b>ADEE<br/>(Advance Diploma in Environmental<br/>Engineering)</b> | <b>82.50%</b><br><b>Third Rank</b>                                  | 2005        | A.M.U. |
| <b>DIC (Diploma in Civil Engineering)</b>                          | <b>78.5%</b><br><b>First Honours</b>                                | 2002        | A.M.U. |
| <b>High School</b>   | <b>69.4%</b><br><b>First Division</b>                               | 1999        | A.M.U. |

|  |          |           |
|--|----------|-----------|
| <b>RESEARCH PAPERS PUBLISHED</b>         | <b>:</b> | <b>15</b> |
| <b>RESEARCH PAPERS IN REVIEW</b>         | <b>:</b> | <b>3</b>  |
| <b>CONFERENCE/WORKSHOP PARTICIPATION</b> | <b>:</b> | <b>10</b> |
| <b>PROJECTS SUPERVISED (UG LEVEL)</b>    | <b>:</b> | <b>9</b>  |
| <b>INVITED LECTURE DELIVERED</b>         | <b>:</b> | <b>2</b>  |

**SUBJECT TAUGHT**

Structural Mechanics, Engineering Materials Lab and Environmental Engineering

**RESEARCH EXPERTISE**

**M.Tech** -Title of thesis: “Compressive strength and seepage characteristics of fly as based roof tiles: An Experimental Study”.

**AWARDS AND ACHEIVEMENTS**

- **Qualified Graduate Aptitude Test in Engineering (GATE) examination-2008 scholarship** granted by the “Ministry of Human Resources Development” for Masters Studies in the Department of Civil Engineering, A.M.U., Aligarh India.
- **Got 2nd Rank in Bachelor’s of Engineering** Degree in Civil Engineering at A.M.U, Aligarh. Note: Difference between first and second rank 0.008 CPI
- **Got 3rd Rank in ADEE.** ( Advance Diploma in Environmental Engineering) A.M.U, Aligarh.

**SCHOLARSHIPS**

- **GATE Scholarship** granted by the “**Ministry of Human Resources Development**” for Masters Studies in the Department of Civil Engineering, A.M.U., Aligarh India. **(2009-2011)**
- Granted **National Merit scholarship** at graduation level from 2005 March to 2009 March:
 

|                              |           |
|------------------------------|-----------|
| Central Minority Scholarship | 2008-2009 |
| U.P. Minority Scholarship    | 2007-2008 |
| Central Minority Scholarship | 2006-2007 |
| U.P. Minority Scholarship    | 2006-2007 |
| U.P. Minority Scholarship    | 2005-2006 |
- **Central Wakf Council Scholarship, New Delhi for Meritorious Students**

**COMPUTER SKILLS**

Windows (Vista, XP), SPSS, MS Office 2007- Microsoft Outlook, Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Micro Internet explorer, H

**SPECIAL SKILLS**

Communication skills      Leadership qualities      Career guidance      Personality development

**INVITED LECTURES**

1. Lecture delivered on “**Concrete Technology**”, in One day Workshop at **‘University Polytechnic, Integral University Campus’** 14 August 2014 at Shahjahanpur U.P India.
2. Lecture delivered on “**Teaching Methodology**”, in One day Workshop **‘University Polytechnic Integral University Campus’** 14 August 2014 at Shahjahanpur U.P India.

**RESEARCH PUBLICATIONS (PEER-REVIEWED JOURNALS)**

1. **M. N. Akhtar**, J. Akhtar, O. H. Al Hattamleh, A. M. Halahla (2016) “Sustainable Fly Ash Based Roof Tiles with Waste Polythene Fibre: An Experimental Study”. *Open Journal of Civil Engineering*, Vol-6, Issue 2, pp. 314-327. DOI: [10.4236/ojce.2016.62026](https://doi.org/10.4236/ojce.2016.62026) March.
2. Omar H. Al-Hattamleh, Odeh A. Odeh, Hussein Al Deekyand **M.N. Akhtar** (2015) “Characterization of Soil Collapsibility: Effect of Salt Dilution” *Journal of Materials and Engineering Structure* Vol-2, Issue 9, pp. 33-43 March.
3. **M. N. Akhtar**, M. A. Khan, J. N Akhtar (2014) “Use of the Falling-head Method to Assess Permeability of Fly Ash Based Roof Tiles with Waste Polythene Fibre” *International Journal of Scientific & Engineering Research*, Vol-5, Issue 12, pp. 476-483, December.
4. J. N. Akhtar, **M. N. Akhtar** (2014) “Enhancement in Properties of Concrete with Demolished Waste Aggregate” *Ge-International Journal of Engineering Research* Vol -2, Issue 9, pp. 73-83 November.
5. **M. N. Akhtar**, (2014) “Prospective Assessment for Long-Term Impact of Excessive solid waste generation on the Environment” *International Journal of Advancement in Earth and Environmental Sciences*, Vol-2, Issue 2, pp. 39-45.
6. **M. N. Akhtar**, J. N. Akhtar, O. Hattamleh, (2014) “Experimental Study of Fly Ash Based Roof Tiles with Waste Polythene Fibre under Stress-Strain Characteristics” *International Journal of Civil and Environmental Engineering*, Vol-36, Issue 1, pp. 1208-1216, April.
7. J. N. Akhtar, T. Ahmad, **M. N. Akhtar**, H. Abbas, (2014) “Influence of Fibers and Fly Ash on Mechanical Properties of Concrete” *American Journal of Civil Engineering and Architecture*, Vol-2, Issue 2, pp. 64-69. March.
8. **M. N Akhtar**, J. N Akhtar, O. Hattamleh, (2013) “The Study of Fibre Reinforced Fly Ash Lime Stone Dust Bricks With Glass Powder” *International Journal of Engineering and Advanced Technology*, Vol-3, Issue 1, pp. 314-319, October.
9. J. Alam, M. A. Khan and **M. N. Akhtar** (2013) “Fly Ash Based Brick Tiles: An Experimental Study” *International Journal of Emerging Trends in Engineering and Development*, Vol-6, Issue 3, pp. 35-41, November.
10. **M. N. Akhtar** (2013) “Assessing the Role of Waste Materials in Construction Industry May Prevent Natural Disaster” *International journal of engineering research & technology*, Vol-2, Issue 2, pp. 2873-2879, September.
11. O. H. Al Hattamleh, H. H. Al-Deeky, **M.N.Akhtar** (2013) “The Consequence of Particle Crushing in Engineering Properties of Granular Materials” *International Journal of Geosciences*, Vol-4, Issue 7, pp. 1055-1060, September.

12. **M. N. Akhtar** (2012) “Role of Soil Mechanics in Civil Engineering” *International Journal of emerging trends in engineering and development*, ISSN: 2249-6149, Vol-6, Issue 2, pp. 104-111, September.
13. J. N Akhtar, J. Alam, **M. N. Akhtar** (2011) “Bricks with total Replacement of clay by Fly ash Mixed with different Materials” *International journal of Engineering Science and Technology*, ISSN: 0975-5462, Vol-3, Issue 10, pp. 7338-7346 October.
14. J. Alam, **M. N. Akhtar** (2011) “Fly Ash Utilization in Different Sector in Indian Scenario” *International Journal of emerging trends in engineering and development*, ISSN 2249-6149, Vol-1, Issue 1, pp. 1-14, August.
15. J. N Akhtar, J. Alam, **M. N. Akhtar** (2010) “An experimental study on fibre-reinforced fly ash based lime bricks” *International Journal of the Physical Science*, ISSN: 1992-1950, Vol-5, Issue 11, pp. 1688-1695, June.

### CONFERENCES /NATIONAL AND INTERNATIONAL

1. A. M. Halahla, M. H. Baluch, M. K. Rahman, A. H. Al-Gadhib, **M. N. Akhtar (2016)** “Finite Element Simulation of RC Exterior Beam-Column Joints Using Damage Plasticity Model” Paper Code: 16IT05000039 **ICSE 2016: 18<sup>th</sup> International Conference on Structural Engineering Rome, Italy May 2- 3, 2016**, PISSN:2010-376X, EISSN:2010-3778}, publisher = {World Academy of Science, Engineering and Technology}, index {International Science Index, Civil and Environmental Engineering, 3(5) 2015}
2. **M. N. Akhtar**, A. Husain and J.NAkhtar **(2016)** “Feasibility of Coal fly ash as a sustainable construction material in civil engineering construction Industry” NATIONAL CONFERENCE ON ADVANCES IN GEOTECHNICAL ENGINEERING (AGE – 2016)08 – 09 April, 2016 (Under TEQIP – II & Indian Geotechnical Society, Delhi Chapter, Delhi) Department of Civil Engineering, ZHCET, AMU, Aligarh. ISBN: 978-93-85777-60-8, pp. 55-60 April 2016.
3. **M. N. Akhtar, (2016)** M. A. Khan “Utilization of fine and Ultrafine Fly Ash and Slag Material” NATIONAL CONFERENCE ON ADVANCES IN GEOTECHNICAL ENGINEERING (AGE – 2016)08 – 09 April, 2016 (Under TEQIP – II & Indian Geotechnical Society, Delhi Chapter, Delhi) Department of Civil Engineering, ZHCET, AMU, Aligarh. ISBN: 978-93-85777-60-8, pp. 168-175 April 2016.
4. 5<sup>th</sup> National Conference on “Sustainable Development in India: Perspectives, Issues and Opportunities” at Al-Barkaat Institute Of Management Studies, Aligarh India on 12<sup>th</sup> of March, 2011.
5. International Conference on “Emerging Technology For Sustainable Environment” Organized by *Department of civil engineering*, A.M.U. Aligarh, India In Collaboration with LA SIERRA UNIVERSITY, U.S.A AND ASIA PACIFIC UNIVERSITY, THAILAND on 29<sup>th</sup> – 30<sup>th</sup> OCTOBER, 2010

## MEMBERSHIPS AND OWNERS

1. Member of External Advisory committee *University Polytechnic, 'Integral University Campus Shahjahnpur* U.P India. Ref:-E/P/02/2015-16
2. Member of research committee civil engineering department **FBSU**, Tabuk Saudi Arabia.
3. Executive member of an NGO “EnvironSense”

## PROJECTS SUPERVISED AT UG LEVEL

### 9 Completed (5 Ongoing)

1. Structural Analysis and Design of Reinforced Concrete Building situated at Tabuk Saudi Arabia 2015-16.
2. Structural Analysis and Design of Single Story Villa situated at Tabuk Saudi Arabia 2015-16.
3. Mechanical Behavior of Recycled Course Aggregate Concrete. 2015-16.
4. Municipal Solid Waste Management- Case Study at Tabuk City Saudi Arabia 2014-15.
5. Analysis and Design of two Storeyed Residential Building situated at Tabuk Saudi Arabia 2014-15.
6. Analysis and Design of Five Storied Residential Building situated at Tabuk Saudi Arabia 2013-14.
7. Planning, Analysis and Design of Single Story Villa situated at Tabuk Saudi Arabia 2013-14.
8. Planning, Analysis and Design of Multistoried Residential Building situated at Tabuk Saudi Arabia 2012-13.
9. Planning, Analysis and Design of Two storied Residential Building situated at Tabuk Saudi Arabia 2012-13.

## INSTITUTION GOVERNANCE RESPONSIBILITY

1. Active Member of Research committee at FBSU, and also the part of committee represent the research activities at FBSU in panel discussion during the visit of **NCAAA Institutional Review Panel Schedule at Fahd Bin Sultan University – 5 to 10 March 2016**. Head of the committee is the Deputy President responsible for research. The Dean of colleges are the heads of research centers, include me some research active academic staff.
2. Worked at administration level and handled the task of syllabus implementation according to NCAAA format Course Specifications Kingdom of Saudi Arabia the National Commission for Academic Accreditation & Assessment for five courses:
  - ✓ Environmental Engineering CIVE 250
  - ✓ Engineering Hydrology CIVE 340
  - ✓ Pavement Design CIVE 461
  - ✓ Thermodynamics for Civil MECH 211
  - ✓ Engineering Material Lab CIVE 220-L

**CITATIONS (SOURCE: GOOGLE SCHOLAR)**

| <u>Citation indices</u> | All | Since 2011 |
|-------------------------|-----|------------|
| <u>Citations</u>        | 63  | 59         |
| <u>h-index</u>          | 4   | 4          |
| <u>i10-index</u>        | 2   | 2          |

**KEY CITATIONS IN RENOWNED JOURNAL:**

1. Sivakumar Babu, G. and Raja Jaladurgam, M. (2014). "Strength and Deformation Characteristics of Fly Ash Mixed with Randomly Distributed Plastic Waste." **AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)**. ISSN: 1943-5533 Vol.26, Issue 12, *J. Mater. Civ. Eng.*, 10.1061/ (ASCE) MT.1943-5533.0001014, 04014093.
2. F. Baeza et al. (2014). Blending of industrial waste from different sources as partial substitution of Portland cement in pastes and mortars. **"CONSTRUCTION AND BUILDING MATERIALS SCIENCE DIRECT ELSEVIER"**. Vol.66, DOI: 10.1016, pp 645-653.
3. Vishal Puri et al. (2015). **A Review of Low Cost Housing Technologies in India. "ADVANCES IN STRUCTURE ENGINEERING SPRINGER"**. ISBN: 978-81-322-2186-9 Vol. 3, pp 1943-1955.
4. Rajinder Kaur and Dinesh Goyal (2015). Mineralogical Studies of Coal Fly Ash for Soil Application in Agriculture. **"PARTICULATE SCIENCE AND TECHNOLOGY: AN INTERNATIONAL JOURNAL TAYLOR & FRANCIS"**. ISSN: 1943-5533 Vol.33, Issue 1 pp 76-80. DOI:10.1080/02726351.2014.938378.
5. A.K. Nayak et al. (2015). Effect of fly ash application on soil microbial response and heavy metal accumulation in soil and rice plant. **"ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY SCIENCE DIRECT ELSEVIER"**. ISSN: 0147-6513 Vol.114, pp 257-262.
6. N.L. Ukwattage et al. (2013). The use of coal combustion fly ash as a soil amendment in agricultural lands (with comments on its potential to improve food security and sequester carbon. **"THE SCIENCE AND TECHNOLOGY OF FUEL AND ENERGY SCIENCE DIRECT ELSEVIER"**. ISSN: 0016-2361 Vol.109, pp 400-408.
7. W. H. Chan (2015). The development of low cost adsorbents from clay and waste materials: a review. **"JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT SPRINGER"**. ISSN: 1611-8227 Vol.18, Issue 48, pp. 1-14.
8. Vojkan Vaskovic (2012). Gas waste, local or global problem. **"INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES"**. ISSN: 1992-1950 Vol.6, Issue 17, pp. 4181-4184.

9. The Built Environ (2011). "Newsletter from CBRI ENVIS Centre on Fly Ash". **"CSIR- CENTRAL BUILDING RESEARCH INSTITUTE (CBRI), ROORKEE"**. ISSN No. 0974-2026 Vol. 7 Issue 2, pp. 1-8.

### WORKSHOP PARTICIPATION

1. **"Assessment of Learning Outcomes"** organized By **"The National Commission for Academic Accreditation & Assessment (NCAAA)"**. Held on Oct 21-22, 2015 at FBSU Tabuk K.S.A
2. **"Flipping your Classroom"** presented by Prof. Saouma Boujaoude Organized by the **Continuing Education Centre (FBSU) in Collaboration with the Center for Teaching and Learning "American University of BEIRUT (AUB)"** held on April 25, 2015 at FBSU, Tabuk, KSA.
3. **"Teaching Methodology"** Organized by **Fahad Bin Sultan University** In Collaboration with **Al-Ghad International Colleges for health Sciences** held on March 7, 2013 at FBSU, Tabuk, Saudi Arabia.
4. **"Nanoscience and Nanotechnology"** ALIGARH NANO-1 Sponsored by **University Grants Commission under Special Assistance Programme DRS-1** from 26<sup>th</sup> to 27<sup>th</sup> March 2011.
5. **"Smart Persona"** A Division of Times English Training & Personality Grooming Academy Parul Palace, Dodhpur Aligarh, U.P., India Date: 20<sup>th</sup> March to 22<sup>th</sup> April 2011.

### EXTRA CURRICULAR ACTIVITIES

1. Participated in a trial of **"Hiking and Mountaineering"** for 35km organized by **"Hiking and Mountaineering club" A.M.U.**
2. Provided extra duties like reporting, delivering vote of thanks, announcements from organizer of the national and international seminars, conferences and workshops in Department of **civil engineering**, AMU Aligarh from 2009 till 2011.
3. Organized educational tours, field studies/industrious tours industry implant training and activities during the sessions 2012 and 2014.
4. Participated in an **"Open University Championship"** and won the tournament at Aligarh Muslim University in the year 2010.
5. Winner of **"Cricket Sulaiman – 2010"** Inter Hostel / Inter Hall Open Tournament.
6. Winner of **"Chess Sulaiman – 2010"** Open University Championship.
7. Winner of **"Snooker Single -2010"**, Open University Championship.

### INTEREST

1. Creative writing
2. Reading
3. Socialization
4. Exploring new technical skills

### PERSONAL DETAILS

Mother's name: Amna Khatoon  
 Father's name: Late S Altaf Husain  
 Date of Birth: 08.04.1984

Nationality: Indian  
Marital Status: Single  
Religion: Islam  
Languages Profeciency: English, Hindi, Urdu, Arabic  
Passport no: H6309188  
Employment No.: 0262  
Blood Group: B+ve

I, hereby declare that all the above information is correct to the best of my Knowledge.

*(M.N. Akhtar)*

**ACADEMIC REFERESS**

**Prof. Hisham H. Hallal**

(A/C Dean)

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**Mob No:** +966-556766158

**Prof. Omar Al Hattamleh**

Chairman

Department of Civil Engineering

Fahad Bin Sultan University

Tabuk K.S.A.

**Mob No:** +966-547352138

**Dr Nabiullah Khan**

**Associate Professor**

Department of Applied Mathematics

Aligarh Muslim University

Aligarh. – 202002, (U.P.) INDIA.

**Mob No:** +91 – 9412596662

**Dr. Mehboob Anwer Khan**

**Associate Professor**

Department of Civil Engineering

Aligarh Muslim University

Aligarh. – 202002, (U.P.) INDIA.

**Mob No:** +91 – 9412273770