# **Mohammad Nadeem Akhtar**

Senior Lecturer
Department of Civil Engineering
Fahad Bin Sultan University
Tabuk, Saudi Arabia
Ph.D. Scholar
Department of Civil Engineering
Universiti Malaya, Kuala Lumpur, Malaysia

Email: akhtarcivil2009@gmail.com, nakhtar@fbsu.edu.sa



# **SUMMARY**

Exceptionally seasoned and dedicated engineering guide with a strong record in both teaching and research. Adept at explaining highly complex engineering theories and practices in a clear and accessible manner to a variety of professional and non-professional audiences. I am committed to offering interested students my full attention and expertise to help further their academic, research, and professional goals.

Lecturer	Research Experience (8 years)	Research Scholar
10 years	Research Papers Published	29
2 years	Research Papers under Review	10
50	International Conference Papers Presented	10
1	Conference/Workshops Participated	8
6	Research Projects in Progress	10
3	Research Awards Received	6
1	Google Scholar Citations	224
2	h-index and i10-index	8 and 6
	10 years 2 years 50 1 6 3	10 years Research Papers Published  2 years Research Papers under Review  50 International Conference Papers Presented  1 Conference/Workshops Participated  6 Research Projects in Progress  3 Research Awards Received  1 Google Scholar Citations

# Website links:

Google Scholar Citations:
Research Gate:
COE Faculty Member:
Ph.D. Universiti Malaya

## **AWARDS / MEMBERSHIPS / HONORS**

- 1. **Best Paper Award** in **ICRAES-2020**: International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12<sup>th</sup> 2020 at **Aligarh Muslim University, Aligarh (UP) India.**
- 2. **Best Presentation Award** in **ICRAES-2020**: International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12<sup>th</sup> 2020 at **Aligarh Muslim University, Aligarh (UP) India.**
- 3. **Best Presentation Award** in **ICWMT 2018**: 20<sup>th</sup> International Conference on Waste Management and Technology was held on 23-24 July 2018 in **Istanbul, Turkey**.
- 4. **Best Lecture Award** on Utilization of Waste Materials in Construction Industries worldwide in three days' workshop was held on 27-28 August 2018 at **Council for Productive Education & Research Aligarh, India.**
- 5. **Member of External Advisory Committee** University Polytechnic, 'Integral University Campus **Shahjahapur** U.P India. Ref: E/P/02/2015-16, 2016-17, 2017-18.
- 6. Member of Research Committee civil engineering department FBSU, Tabuk Saudi Arabia.
- 7. **Member of Board of Studies** "Civil Engineering Department." Mewat Engineering of College (Wakf), Palla Nuh, Mewat, Haryana 122107, India.
- 8. **Permanent Academic advisor** in "All India Council for Productive Education Research and Training" **AICPERT**, Aligarh, India.

#### 1. Senior Lecturer

### Fahad Bin Sultan University (F.B.S.U) Tabuk, K.S.A

Feb 2012 - To Date

- Actively involves in all areas of academia, engaging students to realize their full potential and skills
- I foster students' commitment to lifelong learning by connecting course material to broader themes, essential and current technologies
- Member of the final examination committee
- Supervising the Graduating Projects on an exciting topic for the betterment of our environment.
- Regular attending and contributing to professional conferences and seminars.
- Performing a variety of administrative functions

#### 2. Lecturer

**ACN College of Engineering and Management, India** 

April 2011 to Feb 2012.

3. <u>Lecturer (Guest faculty)</u>,

Aligarh Muslim University, Aligarh, India

Feb 2011 to March 2011.

4. <u>Lecturer</u>

ACN College of Engineering and Management, India

Sep 2010 to Feb 2011.

### **SUBJECTS TAUGHT**

- ✓ Structural Mechanics
- ✓ Structural Analysis
- ✓ Basic Environmental Engineering
- ✓ Engineering Hydrology
- ✓ Engineering Materials Lab
- ✓ Graduated Project 1
- ✓ Graduated Project 2

# **PROFESSIONAL EXPERIENCE (5 Years)**

- Engineer in Sir Syed Real Estate Pvt. Ltd. under the project of construction of shopping complex
   May 2005 to July 2009.
- Engineer in PWD. Construction Division (1) Aligarh. Under the project maintenance and repairing of district road
   April 2003 to 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

June 2002 to April 2003.

# **ACADEMIC CREDENTIALS**

Ph.D. Structural Engineering & Materials (Civil Engineering) (University of Malaya (U.M.), Malaysia)	4 <sup>th</sup> Semester	Pursuing
Master of Technology in Civil Structural Engineering (Aligarh Muslim University, India)	(3 <sup>rd</sup> Rank) 77%	2011
Bachelor of Engineering in Civil (Best outgoing Student) (Aligarh Muslim University, India)	(2 <sup>nd</sup> Rank) 83.66%	2009
Gratitude Aptitude Test in Engineering GATE -Fellowship (University Grants Commission, India)	84.14%	2008
Advance Diploma in Environmental Engineering (ADEE) (Aligarh Muslim University, India)	(2 <sup>nd</sup> Rank) 82.50%	2005
Diploma in Civil Engineering (DIC.) (Aligarh Muslim University, India)	78.50%	2002
Secondary Education (Aligarh Muslim University, India)	69.40%	1999

## **MASTER'S THESIS**

**Title:** Compressive strength and seepage characteristics of the flyash based roof tiles: An Experimental Study.

# **MOST RECENT PUBLISHED RESEARCH ARTICLES (PEER-REVIEWED JOURNALS)**

Articles Details	Year of	Journals Indexes	SJR.
	Publication	and Impact Factor (IF)	
Mohammad Nadeem Akhtar, Abdullah M AL-Shamrani, Mohammed Jameel "Stability and permeability characteristics of porous asphalt pavement": Journal of Case Studies in Construction Materials ScienceDirect Elsevier Volume 15, December 2021, e00591  Doi: https://doi.org/10.1016/j.cscm.2021.e00591	2021	Web of Science (ISI) Scopus IF= 4.3	Q 1
Abdalla M.Saba, Afzal Husain Khan, <b>Mohammad Nadeem Akhtar</b> , "Strength and flexural behavior of steel fiber and silica fume incorporated self-compacting concrete" <b>Journal of Materials Research and Technology, ScienceDirect Elsevier</b> Vol.12, May-June 2021 <b>Doi:</b> doi.org/10.1016/j.jmrt.2021.03.066	2021	Web of Science (ISI) IF= 5.289	Q 1
Mohammad Nadeem Akhtar, Zainah Ibrahima, N. Muhamad Bunnoria, Mohammed Jameel, Nazia Tarannum, J.N. Akhtard "Performance of sustainable sand concrete at ambient and elevated temperature" Construction and Building Materials ScienceDirect Elsevier Volume 280, 19th April 2021, 122404  Doi: doi.org/10.1016/j.conbuildmat.2021.122404	2021	Web of Science (ISI.) IF= 4.419	Q1
Saniya Siddiqui, <b>Mohammad Nadeem Akhtar</b> , Jamal K. Nejem, Mastour Saud Alnoumasi "Evaluating Public Services Delivery on Promoting Inclusive Growth for Inhabitants of Industrial Cities in Developing Countries" Civil Engineering Journal, Vol.7, No.2, pp. 208-225.  Doi: 10.28991/cej-2021-03091648	2021	Web of Science (ISI), Scopus	-
J N Akhtar, M Farhan Fazli, <b>Mohammad Nadeem Akhtar</b> "Heritage Waste Hollow Block A Replacement Of Clay Bricks A Case Study" <b>Journal Critical Reviews</b> Vol.7, No.2, pp. 939-945.	2020	Scopus	-
Mohammad Nadeem Akhtar, Janisaar Akhtar, Nazia Tarannum "Physiochemical Characterization and Dematerialization of Coal Class F Flyash Residues from Thermal Power Plant" Civil Engineering Journal, Vol.5, No.5 Issue 5, pp. 1041-1051  Doi: doi.org/10.28991/cej-2019-03091310	2019	Web of Science (ISI), Scopus	-
Abdulsamee M Halahla, <b>Mohammad Akhtar</b> , Amin H. Almasri "Utilization of Demolished Waste as Coarse Aggregate in Concrete" Civil Engineering Journal, Vol-5, Issue 3, pp. 540-551  Doi: doi.org/10.28991/cej-2019-03091266	2019	Web of Science (ISI), Scopus	-

#### **CONFERENCE PAPERS PRESENTED**

- Mohammad Nadeem Akhtar, Zainah Ibrahim, Mohammed Jameel, J.N Akhtar and Norazura Muhammad (2020) "Compressive Behaviour of Demolished Waste Coarse Aggregate Concrete." International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12<sup>th</sup> 2020 at Aligarh Muslim University, Aligarh (UP) India.
- Mohammad Nadeem Akhtar, Abdullah M Al-Shamrani and Janisaar Akhtar (2020) "Porous Asphalt Design Mix with Normal Bitumen. An Experimental Study". International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12<sup>th</sup> 2020 at Aligarh Muslim University, Aligarh (UP) India.
- Mohammad Nadeem Akhtar, Abdullah M Al-Shamrani, and Janisaar Akhtar (2020) "Municipal Solid Waste Management – Case Study for Tabuk Municipality, Saudi Arabia." International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12<sup>th</sup> 2020 at Aligarh Muslim University, Aligarh (UP) India.
- Saniya Siddiqui, Mohammad Nadeem Akhtar and Janisaar Akhtar (2020) "Role of Basic Public Services in Promoting Inclusive Growth in Industrial Cities- Mandideep Town, Case Study." International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12<sup>th</sup> 2020 at Aligarh Muslim University, Aligarh (UP) India.
- M.N. Akhtar and J.NAkhtar (2018) "Suitability of Class f flyash for Construction Industry: an Indian Scenario.": 20th International Conference on Waste Management and Technology (ICWMT-2018) July 23-24, 2018, at Istanbul, Turkey. Scholar.waset.org/1307-6892/10009563.
- 6. M.N. Akhtar, O. Hattamleh and J.N. Akhtar (2017) "Feasibility of Coal Fly Ash Based Bricks and Roof Tiles as Construction Materials." The International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17) at the University of Sharjah, Sharjah, United Arab Emirates, 18-20 April 2017. Published online: 09th August 2017, No: 03008 DOI: https://doi.org/10.1051/matecconf/201712003008
- 7. Omar Al Hattamleh and M.N. Akhtar (2017) "Effects of Pore fluid salinity on the collapsibility of low Plasticity Clay." The International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17) at Sharjah, Sharjah, United Arab Emirates, 18-20 April 2017. Published online: 09th August 2017, No: 06008, DOI: https://doi.org/10.1051/matecconf/201712006008
- 8. 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" 18th International Conference on Structural Engineering (ICSE-2016) May 2-3, 2016 Rome, Italy. Paper Code: 16IT05000039 PISSN:2010-376X, EISSN:2010-3778
- 9. M. N. Akhtar, A. Husain and J. N Akhtar (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.
- 10. M. N. Akhtar and M.A Khan (2016) "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.

#### **BOOK CHAPTERS PUBLISHED**

Mohammad Nadeem Akhtar and Nazia Tarannum (29th December 2018). Flyash is a Resource Material
in Construction Industry: A Clean Approach to Environment Management [Online First], IntechOpen,
DOI: 10.5772/intechopen.82078. FINAL BOOK TITLE & ISBN: "Sustainable Construction and Building
Materials," 978-1-78985-750-4.

## **WORKSHOP/CONFERENCES ORGANIZED**

- 1. International Conference on Recent Advances in Engineering & Science (ICRAES-2020). 11-12<sup>th</sup> January 2020, Aligarh Muslim University, Aligarh (UP), India. Co-Editor in Proceedings
- 2. Training Workshop on QA /QC CRASH COURSE FOR CIVIL ENGINEERS was organized for B. Tech and M. Tech students and working professionals from 12th April 2018 to 14th April 2018, at Fahad Bin Sultan University Tabuk, Saudi Arabia.
- 3. Training Workshop SAFETY ENGINEER IN CIVIL CONSTRUCTION was organized for B. Tech and M. Tech students and working professionals from 15th March 2019 to 17th March 2019 at Fahad Bin Sultan University, Tabuk, Saudi Arabia.

## **CONFERENCE/WORKSHOP ATTENDED**

- "Entrepreneurship Awareness Training Course" organized by "The National Small Industries Corporation LTD.Technical Services Centre (NSIC)." A Government of India Enterprises was held from 04th October to 06th October 2018 at Aligarh U.P India.
- 2. "Assessment of Learning Outcomes" organized by "The National Commission for Academic Accreditation & Assessment (NCAA)." Held on Oct 21-22, 2015, at FBSU Tabuk KSA
- 3. "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 25th April 2015 at FBSU, Tabuk, KSA
- 4. "Teaching Methodology" Organized by Fahad Bin Sultan University in Collaboration with Al-Ghad International Colleges for health Sciences, held on 07th March 2013 at FBSU, Tabuk, Saudi Arabia.
- 5. "Nanoscience and Nanotechnology" ALIGARH NANO-1 Sponsored by University Grants Commission under Special Assistance Programme DRS-1 from 26<sup>th</sup> to 27th March 2011.
- 6. **"Smart Persona"** A Division of Times English Training & Personality Grooming Academy Parul Palace, Dodhpur Aligarh, U.P., India Date: 20th March to 22nd April 2011.
- 7. 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 12th March 2011
- International Conference on "Emerging Technology for Sustainable Environment" Organized by Department of Civil engineering, AMU. Aligarh, India in Collaboration with LA SIERRA UNIVERSITY, USA AND ASIA PACIFIC UNIVERSITY, THAILAND on 29<sup>th</sup> – 30<sup>th</sup> OCTOBER 2010

#### **INVITED LECTURES**

- Lecture delivered on "Sustainable Construction Materials" Online Refresher Course in Environmental Studies (UGC) Human Resource Development Centre 14<sup>th</sup> September 2020, Aligarh Muslim University, Aligarh India.
- Lecture delivered on "Utilization of Waste Materials in Construction Industries worldwide," in a three-day workshop at "CPER Group of Institutions" Council for Productive Education & Research 27<sup>th</sup>-29<sup>th</sup> August 2018 at Aligarh, U.P India.
- 3. Lecture delivered on "Concrete Technology," in One day Workshop at 'University Polytechnic, 'Integral University Campus' 14th August 2014 at Shahjahanpur U.P India.
- 4. Lecture delivered on "Teaching Methodology," in One day Workshop 'University Polytechnic 'Integral University Campus' 14th August 2014 at Shahjahanpur U.P India.

## **SUPERVISED PROJECTS AT UG LEVEL**

## 50 Completed (5 Ongoing) Some are mentioned here

### **Research-Based Projects**

- 1. Performance of Sustainable Mortar Incorporating Stone Dust, Crumb Rubber and Silica Fume Under Heating-Cooling Cycle 2020-21.
- 2. Performance of Sustainable Concrete incorporating supplementary Waste Materials 2020-21.
- 3. Half-Life Cycle Assessment of Municipal Organic Waste Management Scenarios for Developing City, Tabuk, Saudi Arabia 2020-21
- 4. Life Cycle Assessment of Municipal Organic Waste Management Scenarios for Tabuk Municipality 2019-20.
- 5. Physiochemical Characterization and Dematerialization of solid waste materials 2018-19.
- 6. Compressive Behavior of Demolished Aggregate Concrete: An Experimental Study 2018-19
- 7. Suitability Investigation of Demolished Concrete Aggregates for Concrete Production: An Experimental Case Study Saudi Arabia 2018-19.
- 8. Life Cycle Assessment of Municipal Solid Waste Management Scenarios for Tabuk Municipality 2017-18.
- 9. Porous Asphalt Design Mix. An Experimental Study 2017-18.
- 10. Mix Design and Properties of demolished Recycled Aggregate Concrete 2017-18.
- 11. Mechanical Behavior of Recycled Coarse Aggregate Concrete. 2015-16.
- 12. Municipal Solid Waste Management- Case Study at Tabuk City Saudi Arabia 2014-15.

#### **Structural Design Projects**

- 1. Analysis and design of reinforced concrete building situated at Jordan 2018-19.
- 2. Analysis and Design of Single-Story Concrete Building Structure 2018-19.
- 3. Structural Analysis and Design of Reinforced Concrete Building situated at Tabuk Saudi Arabia 2017-18.
- 4. Analysis and Design of Concrete Building Structure 2017-18.
- 5. Planning, Analysis, and Design of Two storyed Residential Building situated at Tabuk Saudi Arabia 2017-18.
- 6. Structural Analysis and Design of Reinforced Concrete Building situated at Tabuk Saudi Arabia 2015-16.
- 7. Structural Analysis and Design of Single Story Villa situated at Tabuk Saudi Arabia 2015-16.
- 8. Analysis and design of two storyed Residential Building situated at Tabuk Saudi Arabia 2014-15.
- 9. Analysis and Design of Five Storied Residential Building situated at Tabuk Saudi Arabia 2013-14.
- 10. Planning, Analysis, and Design of Single Story Villa situated at Tabuk Saudi Arabia 2013-14.
- 11. Planning, Analysis, and Design of Multistoried Residential Building situated at Tabuk Saudi Arabia 2012-13.
- 12. Planning, Analysis, and Design of Two storyed Residential Building situated at Tabuk Saudi Arabia 2012-13.

#### **SCHOLARSHIPS**

- **GATE Scholarship** granted by the "**Ministry of Human Resources Development**" for master's Studies in the Department of Civil Engineering, AMU, 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
UP Minority Scholarship	2005-2006

• Central Wakf Council Scholarship, New Delhi for Meritorious Students

#### **INSTITUTION GOVERNANCE RESPONSIBILITY**

- **1.** Active Member of Research committee at civil engineering department, FBSU & also serve as **Academic Advisor** of undergraduate civil engineering students.
- 2. Worked at the 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

#### **EXTRACURRICULAR ACTIVITIES**

- 1. Participated in a trial of "Hiking and Mountaineering" for 35km organized by "Hiking and Mountaineering club" AMU.
- 2. Provided extra duties like reporting, delivering the vote of thanks, announcements from the organizer of the national and international seminars, conferences, and workshops in the Department of *civil engineering*, AMU. Aligarh from 2009 till 2011.
- **3.** Organized educational tours, field studies/industrious tours, industry implant training, and activities during 2012 and 2014.
- **4.** Participated in an **"Open University Championship"** and won the tournament at Aligarh Muslim University in 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.

#### TECHNICAL SKILLS

- ✓ Windows (Vista, XP), SPSS, MS Office 2020
- ✓ Microsoft Outlook,
- ✓ Microsoft Word,
- ✓ Microsoft PowerPoint,
- ✓ Microsoft Excel,
- ✓ Photoshop 2020

✓ Internet Explorer,

## **OTHER SKILLS**

- ✓ Strong Communication,
- ✓ Leadership,
- ✓ Career guidance,
- ✓ Personality development

# **INTEREST**

- ✓ Creative writing
- ✓ Reading
- ✓ Socialization
- ✓ Exploring new technical skills

# **PERSONAL DETAILS**

Mother's name:
Father's name:
Nationality:
Languages Known

Amna Khatoon
Late S Altaf Husain
Indian
English, Hindi, Urdu, Arabic

Passport no H6309188
Employment No. E-0262

mployment No. E-026 Blood Group: B<sup>+</sup>

I, at this moment, declare that all the above information is correct and can be checked by available certificates or online information to the best of my knowledge.

(M.N. Akhtar)

## **REFERENCES**

#### Prof. Khaldoon A. Bani-Hani

**Professor of Structural Engineering** 

Dean of College of Engineering

**Assistant Chancellor for MultiMedia** 

khaldoon@fbsu.edu.sa

**Fahad Bin Sultan University** 

PO Box 15700, Tabuk 71454 KSA

Dr. Zainah Ibrahim

Associate Professor

Universiti Malaya

Kuala Lumpur, Malaysia

Zainah@um.edu.my

Prof. Ali El Hanandeh

BSc MASc MIT PhD

**Griffith School of Engineering** 

Nathan campus, Griffith University Brisbane, Queensland Australia

Mob No: +61(0)737356635

## Dr. Amer M. Magableh, PhD.

Associate Professor,

**Electrical Engineering Department** 

A/ Dean of Graduate Studies

A/ Dean of Scientific Research

A/Assistant to Chancellor for IT affairs

**Fahad Bin Sultan University** 

PO Box 15700, Tabuk 71454 KSA

Dr. Nabiullah Khan

Associate Professor

Department of Applied Mathematics

**Aligarh Muslim University** 

Aligarh. – 202002, (UP.) India.

Mob No: +91 - 9412596662

#### Dr. Amin Almasri

Associate Professor

Department of Civil Engineering

**Fahad Bin Sultan University** 

Tabuk, Saudi Arabia

Mob No: +966551868023

#### Dr. Norazura Muhammad Bunnori

Associate Professor

Universiti Malaya

Kuala Lumpur, Malaysia

nmb@em.edi.my

Dr. Sabih Akhtar

Professor

Department of Civil Engineering

**Aligarh Muslim University** 

Aligarh. – 202002, (UP.) India.

Mob No: +91 - 9412596531

## Dr. Omar Al Hattamleh

Associate Professor

**Department of Civil Engineering** 

**Hashemite University** 

Jordan

Mob No: +962776784493

#### Dr. Mehboob Anwer Khan

Professor

Department of Civil Engineering Aligarh Muslim University

Aligarh. - 202002, (UP.) India.

Mob No: +91 – 9412273770