



Dr. Mohammad Nadeem Akhtar

Affiliations

Ph.D. Universiti Malaya (UM),

Structural Engineering & Materials

Universiti Malaya, 50603 Kuala Lumpur, Malaysia

Assistant Professor,

Department of Civil Engineering

Fahad Bin Sultan University (FBSU)

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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 various 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.

HIGHLIGHTS

- Awarded Ph.D. with high honors in structural engineering and materials from the Universiti of Malaya (UM) Malaysia. Universiti Malaya remains the first-rank nation's best in its overall position out of 41 Malaysian universities. It is 3rd among ASEAN universities in Quacquarelli-Symonds (QS) World University Rankings: Asia (QS-AUR) 2024. It is ranked #=65 in QS World University Rankings 2024. Universiti Malaya leads Malaysian universities in the international network, employer reputation, and academic and research reputation indicators.
- Received the grant of 60,000 US \$ for a project on the topic of Strength Durability and Microstructural (SDM) Assessment of Sustainable Concrete by Incorporating Desert Sand, Recycled Sand, and Silica Fume Under Coastal Conditions: A Case Study of Red Sea Region (NEOM) Near Tabuk Saudi Arabia

Duration of the project: 2024-08 to 2026-08

Funded by the Deanship of Scientific Research from Fahad Bin Sultan University, FBSU, Tabuk, Saudi Arabia.

GRANT_NUMBER: 01-06-2024

- Recently published two edited Books in Elsevier in the academic year 2023-24.
- Published eight (8) high-impact factor research papers in Quartile Q1 in the academic year 2023-24.
- Worked at the college level and handled the task of syllabi implementation according to NCAAA & ABET Accreditation & Assessment for program in Civil Engineering.

ACADEMIC EXPERIENCE

1. Assistant Professor

Fahad Bin Sultan University (FBSU) Tabuk, Saudi Arabia

22 December 2023 - To Date

- Actively involved 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 themes, and current technologies.
- Member of the final examination committee
- Supervising the Graduating Projects on an exciting topic for improving our environment.
- Regularly attending and contributing to professional conferences and seminars.
- Performing a variety of administrative functions

2. Senior Lecturer

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

February 2012 – 21 December 2023

2. Lecturer

ACN 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

ACN College of Engineering and Management, India

Sep 2010 to Feb 2011.

SUBJECTS TAUGHT

- ✓ Structural Mechanics
- ✓ Structural Analysis
- ✓ Basic Environmental Engineering
- ✓ QA/QC for Civil Engineers
- ✓ Engineering Materials Lab
- ✓ Graduated Project 1
- ✓ Graduated Project 2

ACADEMIC CREDENTIALS

- **Awarded 2023** Ph.D. in Structural Engineering & Materials (Civil Engineering) from (the University of Malaya (UM), Malaysia), *Thesis Title "DEVELOPMENT OF NOVEL SUSTAINABLE CONCRETE USING DESERT SAND AND RECYCLED CRUSHED SAND.*
- **Awarded 2011** Master of Technology (M. Tech) in Civil Structural Engineering with First Honours from Aligarh Muslim University, Aligarh, India, *Title: COMPRESSIVE STRENGTH AND SEEPAGE CHARACTERISTICS OF THE FLYASH BASED ROOF TILES: AN EXPERIMENTAL STUDY.*
- **Awarded 2009** Bachelor of Engineering (BE) in Civil Engineering with First Honours (Best Outgoing Student) from Aligarh Muslim University, Aligarh, India.
- **Qualified for the 2008** Gratitude Aptitude Test in Engineering (GATE) from the University Grants Commission (UGC), India.
- **Awarded 2005** Advance Diploma in Environmental Engineering (ADEE) with First Honours from Aligarh Muslim University, Aligarh, India.
- **Awarded 2002** Diploma in Civil Engineering (DIC) with First Honours from Aligarh Muslim University, Aligarh, India.

NON-ACADEMIC EXPERIENCE

Company or Entity	Title	Brief Description of Position	Dates	Full Time or Part Time
Sir Syed Real Estate Pvt. Ltd	Site Engineer	Project of Construction of shopping complex	04/2005-07 2009	Part-time
PWD Construction Division (1) Aligarh. India	QC-Engineer	Under the project of maintenance and repairing of district road	04/2003-04/2004	Full time
Foundnex Construction Company Jahangir Puri Delhi, India.	Junior Engineer	Under the project, maintenance, and construction of shopping complex	06/2002-04/2003	Full time

AWARDS / MEMBERSHIPS / HONORS

1. **Best Research Award** from **Deanship of Scientific Research FBSU**, Tabuk Saudi Arabia, for Contribution and Honorable Achievement in Innovative Research for the **Academic Year 2021-22**.
2. **Best Paper Award** in **ICRAES-2020**: International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12' 2020, at **Aligarh Muslim University, Aligarh (UP) India**.
3. **Best Presentation Award** in **ICRAES-2020**: International Conference on Recent Advances in Engineering & Sciences (ICRAES-2020) January 11-12th 2020 at **Aligarh Muslim University, Aligarh (UP) India**.
4. **Best Presentation Award** in **ICWMT 2018**: The 20th International Conference on Waste Management and Technology was held on 23-24 July 2018 in **Istanbul, Turkey**.
5. **The best Lecture Award on the Utilization of Waste Materials in Construction Industries worldwide in three-day workshops** was held on 27-28 August 2018 at the **Council for Productive Education & Research Aligarh, India**.
6. **Member of External Advisory Committee** University Polytechnic, 'Integral University Campus Shahjapur U.P India. Ref: - E/P/02/2015-16, 2016-17, 2017-18.
7. **Member of Research Committee** Civil Engineering Department **FBSU**, Tabuk, Saudi Arabia.
8. **Member of Board of Studies** "Civil Engineering Department." Mewat Engineering of College (Wakf), Palla Nuh, Mewat, Haryana 122107, India.
9. **Permanent Academic Advisor** in "All India Council for Productive Education Research and Training" **AICPERT**, Aligarh, India.

MOST RECENT PUBLISHED ARTICLES (PEER-REVIEWED JOURNALS)

1. **Mohammad Nadeem Akhtar**, O Albatayneh, Khaldoon A Bani-Hani, Abdallah I Husein Malkawi "Performance of modified desert sand concrete: An experimental case study" **Journal of Case Studies in Construction Materials ScienceDirect Elsevier** Volume 21, December 2024, e03465 Doi: <https://doi.org/10.1016/j.cscm.2024.e03465>, Publisher: **Elsevier 2024, Web of Science (ISI), SCIE, and Scopus IF= 6.5, SJR Q1.**
2. **Mohammad Nadeem Akhtar**, Khaldoon A Bani-Hani, Dima A Husein Malkawi, and O Albatayneh, "Suitability of sustainable sand for concrete manufacturing - A complete review of recycled and desert sand substitution" **Journal of Results in Engineering ScienceDirect Elsevier** Volume 23, September 2024, 102478 Doi: <https://doi.org/10.1016/j.rineng.2024.102478>, Publisher: **Elsevier 2024, Web of Science (ISI), SCIE, and Scopus IF= 6.0, SJR Q1.**
3. **Mohammad Nadeem Akhtar** and O Albatayneh "Evaluating Recycled PET as an Alternative Material for the Construction Sector Towards Sustainability" **Civil Engineering Journal**, Volume 10, No 4, April 2024 Pages 1336-1353 Doi: <https://doi.org/10.28991/CEJ-2024-010-04-020>, Publisher: **Salehan Institute of Higher Education Iran, 2023 Web of Science (ISI), SCIE, and Scopus IF= 4.3, SJR Q1.**
4. **Mohammad Nadeem Akhtar** and O Albatayneh " Assessment of Shared Mobility Acceptability for Sustainable Transportation in Amman" **Urban Science Journal**, Volume 8, No 2, May 2024 Pages 56 Doi: <https://doi.org/10.3390/urbansci8020056>, Publisher: **MDPI, 2023 Web of Science (ISI), SCIE, and Scopus IF= 2.1, SJR Q1.**
5. **Mohammad Nadeem Akhtar**, Mohammed Jameel, Zainah Ibrahim, N Muhamad Bunnori, Khaldoon A Bani-Hani "Development of sustainable modified sand concrete: An experimental study," **Ain Shams Engineering Journal**, Volume 22, Pages 4525-4544 Doi: <https://doi.org/10.1016/j.asej.2023.102331>, Publisher: **Elsevier, 2024, Web of Science (ISI), SCIE, and Scopus IF= 6, SJR Q1.**
6. **Mohammad Nadeem Akhtar**, Khaldoon A Bani-Hani, Dima A Husein Malkawi, Abdallah I Husein Malkawi "Porous Asphalt Mix Design Pavement by Incorporating a Precise Proportion of Recycled Coarse Aggregate," **International Journal of Pavement Research and Technology**, Published 29 December 2023 Doi: <https://doi.org/10.1007/s42947-023-00406-8>, Publisher: **Springer, 2023, Web of Science (ISI), SCIE, and Scopus IF= 6, SJR Q1.**
7. **Mohammad Nadeem Akhtar**, Dima A Husein Malkawi, Khaldoon A Bani-Hani, Abdallah I Husein Malkawi "Durability Assessment of Sustainable Mortar by Incorporating the Combination of Solid Wastes: An Experimental Study," **Civil Engineering Journal**, Volume 9, No 11, November 2023 Pages 2770-2786 Doi: <https://doi.org/10.28991/CEJ-2023-09-11-09>, Publisher: **Salehan Institute of Higher Education Iran, 2023 Web of Science (ISI), SCIE, and Scopus IF= 4.1, SJR Q1.**
8. Ayedh Mohammad Alhajiri, **Mohammad Nadeem Akhtar** "Enhancing sustainability and economics of concrete production through silica fume: A systematic review," **Civil Engineering Journal**, Volume 9, No 11, November 2023 Pages 2612-2629 Doi: <https://doi.org/10.28991/CEJ-2023-09-10-017>, Publisher: **Salehan Institute of Higher Education Iran, 2023 Web of Science (ISI), SCIE, and Scopus IF= 4.1, SJR Q1.**
9. Jan Nisar Akhtar, Rizwan Ahmad Khan, Rehan Ahmad Khan, **Mohammad Nadeem Akhtar**, Blessen S Thomas "A comparative study of strength and durability characteristics of concrete and mortar

admixture by bacterial calcite precipitation: A review," *Materials Today: Proceedings*, Available online 1 April 2023 Doi: <https://doi.org/10.1016/j.matpr.2023.03.490>, Publisher: Elsevier, 2023, Scopus, SJR Q2.

10. **Jan Nisar Akhtar, Rizwan Ahmad Khan, Rehan Ahmad Khan, Mohammad Nadeem Akhtar, "Experimental study on fine-crushed stone dust a solid waste as a partial replacement of cement," *Materials Today: Proceedings*, Available online 24 March 2023 Doi: <https://doi.org/10.1016/j.matpr.2023.03.222>, Publisher: Elsevier, 2023, Scopus, SJR Q2.**
11. **Mohammad Nadeem Akhtar, Mohammed Jameel, Zainah Ibrahim, N Muhamad Bunnori "Incorporation of recycled aggregates and silica fume in concrete: an environmental savior-a systematic review," *Journal of Materials Research and Technology (JMRT)*, Volume 22, September–October 2022, Pages 4525-4544 Doi: <https://doi.org/10.1016/j.jmrt.2022.09.021>, Publisher: Elsevier, 2022, Web of Science (ISI), SCIE, and Scopus IF= 6.4, SJR Q1.**
12. **Mohammad Nadeem Akhtar, Khaldoon A. Bani-Hani, J. N. Akhtar, Rizwan Ahmad Khan, Jamal K. Nejem & Khansa Zaidi "Flyash-based bricks: an environmental savior—a critical review": *Journal of Material Cycles and Waste Management*, Volume 24, May 2022, Issue 3 Doi: <https://doi.org/10.1007/s10163-022-01436-3> Publisher: Springer 2022, Web of Science (ISI), SCIE, and Scopus IF= 3.579, SJR Q2.**
13. **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>, Publisher: Elsevier 2021, Web of Science (ISI), SCIE, and Scopus IF= 4.934, SJR Q1.**
14. **Abdalla M.Saba, Afzal Husain Khan, Mohammad Nadeem Akhtar, "Strength and flexural behavior of steel fiber and silica fume incorporated self-compacting concrete," *Journal of Materials Research and Technology*, ScienceDirect Elsevier Vol.12, May-June 2021 Doi: doi.org/10.1016/j.jmrt.2021.03.066 Publisher: Elsevier 2021, Web of Science (ISI), SCIE, and Scopus IF= 6.267, SJR Q1.**
15. **Mohammad Nadeem Akhtar, Zainah Ibrahim, 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, Publisher: Elsevier 2021, Web of Science (ISI), SCIE, and Scopus IF= 7.693, SJR Q1.**
16. **Saniya Siddiqui, Mohammad Nadeem Akhtar, 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 Publisher: Salehan Institute of Higher Education Iran, 2021, Web of Science (ISI), SCIE, and Scopus IF= 4.1, SJR Q1.**
17. **Mohammad Nadeem Akhtar, Abdulsamee Halahla, and Amin Almasri "Experimental Study on Compressive Strength of Recycled Aggregate Concrete under High Temperature" *Structural Durability & Health Monitoring*; Vol. 15, Issue. 4, (2021): 335-348. Doi:10.32604/sdhm.2021.015988 Publisher: Tech Science Press 2021, Scopus, SJR Q3.**

18. N Akhtar, Rizwan Ahmad Khan, Rehan Ahmad Khan, **Mohammad Nadeem Akhtar**, Jamal K Nejem *"Influence of natural zeolite and mineral additive on bacterial self-healing concrete: a review"* *Civil Engineering Journal*, Vol.8, No.5, pp. 1069-1085. Doi: <http://dx.doi.org/10.28991/CEJ-2022-08-05-015>
 Publisher: Salehan Institute of Higher Education Iran, 2021, Web of Science (ISI), SCIE, and Scopus IF= 4.1, SJR Q1.

CONFERENCE PAPERS PRESENTED

1. **Mohammad Nadeem Akhtar, (2023)** "Physiochemical Characteristics of Developed Modified Sand by Incorporating Natural Dune Sand" International Conference on Arid Lands: Desert Technology, **3-6 June 2023, Dead Sea Jordan.**
2. **Mohammad Nadeem Akhtar, (2021)** "Fly ash utilization in different sectors in Indian scenario." 1stInternational Conference on Emerging Scientific Applications in the field of Engineering and Technology **23-24th September 2021** at Vishwanathrad Deshpande Institute of Technology, Haliyal, India.
3. **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 11-12th, 2020**, at Aligarh Muslim University, Aligarh (UP), India.
4. **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 11-12th, 2020**, at Aligarh Muslim University, Aligarh (UP), India.
5. **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 11-12th, 2020**, at Aligarh Muslim University, Aligarh (UP), India.
6. 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 11-12th, 2020**, at Aligarh Muslim University, Aligarh (UP), India.
7. **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, in Istanbul, Turkey.**
 Scholar.waset.org/1307-6892/10009563.
8. **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, April 18-20, 2017. Published online: 09th August 2017, No: 03008**
 DOI: <https://doi.org/10.1051/mateconf/201712003008>
9. 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, United Arab Emirates, April 18-20, 2017. Published online: 09th August 2017, No: 06008,**
 DOI: <https://doi.org/10.1051/mateconf/201712006008>
10. 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
11. **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.

12. **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.

PUBLISHED BOOKS

1. *Afzal Husain Khan; **Mohammad Nadeem Akhtar**; Khaldoon A. Bani-Hani*, BOOK TITLE: **Recent Developments and Innovations in Sustainable Concrete Production**", Publisher Elsevier, Publication Date and ISBN: 01-Sep-24 ISBN: 9780443238956.
2. ***Mohammad Nadeem Akhtar**; Khaldoon A. Bani-Hani; Zainah Ibrahim; Omar Albatayneh; Abdallah I. Husein Malkawi*, BOOK TITLE: **Sustainable Novel Alternatives of Natural Sand in Concrete Manufacturing: Recent Development and Innovations**", Publisher Elsevier, (Publication Date and ISBN: coming soon)

PUBLISHED BOOK CHAPTERS

1. ***Mohammad Nadeem Akhtar** and **Nazia Tarannum*** (29th December 2018). **Flyash is a Resource Material in Construction Industry: A Clean Approach to Environment Management**, IntechOpen, DOI: 10.5772/intechopen.82078. FINAL BOOK TITLE & ISBN: "**Sustainable Construction and Building Materials**," 978-1-78985-750-4.
2. ***Mohammad Nadeem Akhtar** and **Nazia Tarannum*** (29th December 2018). **Flyash is a Resource Material in Construction Industry: A Clean Approach to Environment Management**, 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**). **11-12th 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

1. "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"** was organized by Fahad Bin Sultan University in collaboration with Al-Ghad International Colleges for Health Sciences and held on 07th March 2013 at FBSU, Tabuk, Saudi Arabia.
5. **"The University Grants Commission sponsored Nanoscience and Nanotechnology" ALIGARH NANO-1** under the Special Assistance Programme DRS-1 from 26th to 27th March 2011.
6. **"Smart Persona"** is a division of Times English Training & Personality Grooming Academy Parul Palace, Dodhpur Aligarh, U.P., India. Date: 20th March to 22nd April 2011.
7. 5th National Conference on **"Sustainable Development in India: Perspectives, Issues, and Opportunities"** at **Al-Barkaat Institute of Management Studies**, Aligarh, India on 12th March 2011
8. International Conference on **"Emerging Technology for Sustainable Environment"** Organized by the **Department of Civil Engineering**, AMU. Aligarh, India, in Collaboration with LA SIERRA UNIVERSITY, USA, AND ASIA PACIFIC UNIVERSITY, THAILAND, on 29th – 30th OCTOBER 2010

INVITED LECTURES

1. Lecture delivered on **"Importance of Research in the Advancement of Society."** The International Seminar held at the ACN College of Engineering & Management Studies Aligarh Campus was approved by AICTE (New Delhi) on **3rd August 2024**.
2. Lecture delivered on **"Enhancing Sustainability and Economics through Solid Waste Management in Emerging Trends in the Construction Industry."** In the workshop held in ACN College of Engineering & Management Studies Aligarh Campus, Approved by AICTE (New Delhi) in **Guest Lecture Sessions 13-21 December 2023**.
3. Lecture delivered on **"Sustainable Construction Materials" Online Refresher Course in Environmental Studies (UGC) Human Resource Development Centre 14th September 2020**, Aligarh Muslim University, Aligarh, India.
4. 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 27th-29th August 2018 at Aligarh, U.P India.
5. The **"Concrete Technology"** lecture was delivered in a one-day workshop at the University Polytechnic, Integral University Campus on 14th August 2014 at Shahjahanpur U.P India.
6. Lecture delivered on **"Teaching Methodology,"** in a One-day workshop 'University Polytechnic' Integral University Campus' on 14th August 2014 at Shahjahanpur U.P India.

SUPERVISED PROJECTS AT UG LEVEL

70 Completed (5 Ongoing); some are mentioned here

Research-Based Projects

1. Sustainable Design Mix Concrete by Incorporating Silica Fume and Hair Fibers along with Demolished Concrete Sand 2023-24.
2. Performance of Sustainable Mortar Incorporating Stone Dust, Crumb Rubber, and Silica Fume under Heating-Cooling Cycle 2020-21.
3. Performance of Sustainable Concrete incorporating supplementary Waste Materials 2020-21.
4. Half-Life Cycle Assessment of Municipal Organic Waste Management Scenarios for Developing City, Tabuk, Saudi Arabia 2020-21
5. Life Cycle Assessment of Municipal Organic Waste Management Scenarios for Tabuk Municipality 2019-20.
6. Physiochemical Characterization and Dematerialization of Solid Waste Materials 2018-19.
7. Compressive Behavior of Demolished Aggregate Concrete: An Experimental Study 2018-19
8. Suitability Investigation of Demolished Concrete Aggregates for Concrete Production: An Experimental Case Study Saudi Arabia 2018-19.
9. Life Cycle Assessment of Municipal Solid Waste Management Scenarios for Tabuk Municipality 2017-18.
10. Porous Asphalt Design Mix. An Experimental Study 2017-18.
11. Mix Design and Properties of demolished Recycled Aggregate Concrete 2017-18.
12. Mechanical Behavior of Recycled Coarse Aggregate Concrete. 2015-16.
13. 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 in 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-story 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 a two-storeyed Residential Building situated at Tabuk, Saudi Arabia, 2014-15.
9. Analysis and Design of A 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-story 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
UP Minority Scholarship	2007-2008
Central Minority Scholarship	2006-2007
UP Minority Scholarship	2006-2007
UP Minority Scholarship	2005-2006
- **Central Wakf Council Scholarship, New Delhi for Meritorious Students 2008-2009.**

INSTITUTION GOVERNANCE RESPONSIBILITY

1. Active Member of the Research Committee at the civil engineering department, FBSU & also serves as **Academic Advisor** of undergraduate civil engineering students of FBSU, Tabuk, Saudi Arabia.
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:
 - ✓ Structural Mechanics CIVE 211
 - ✓ Structural Analysis CIVE 310
 - ✓ Environmental Engineering CIVE 250
 - ✓ Engineering Hydrology CIVE 340
 - ✓ Pavement Design CIVE 461
 - ✓ Engineering Material Lab CIVE 220-L
 - ✓ Engineering Drawing Lab CIVE 205

EXTRACURRICULAR ACTIVITIES

1. I participated in a "Hiking and Mountaineering" trial for 35km organized by the "Hiking and Mountaineering Club" at **AMU**.
2. Provided extra duties like reporting, delivering the vote of thanks, and 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 the "**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:	Amna Khatoon
Father's name:	Late S Altaf Husain
Nationality:	Indian
Languages Known	English, Urdu, Hindi, Arabic
Passport no	S9851985
Employment No.	E-0262
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At this moment, I declare that all the above information is correct and can be checked by available certificates or online information to the best of my knowledge.

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