



Dr Mohd Abdul Haleem Rizwan

Designation: Senior Assistant Professor

Qualification: M.Sc., B.Ed., M.Phil., Ph.D

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Experience: 21 years

Dr. Mohd Abdul Haleem Rizwan is a Senior Mathematics faculty member with extensive experience in teaching Engineering Mathematics to undergraduate engineering students. His academic interests encompass Linear Algebra, Differential Calculus, Multivariable Calculus, Differential Equations, Numerical Methods, Probability and Statistics and Applied Mathematics. He is committed to making mathematical concepts accessible through systematic explanations, step-by-step problem-solving techniques and application-oriented teaching.

He has been actively involved in curriculum development and the preparation of student-centered instructional materials aligned with the autonomous engineering curriculum of Muffakham Jah College of Engineering and Technology (MJCET), Hyderabad. His educational resources include comprehensive lecture notes, textbooks, question banks, solved examples and PowerPoint presentations designed to strengthen students' conceptual understanding and examination performance.

His research interests include statistical modeling, regression analysis, machine learning applications in materials science and predictive modeling of oxide glass properties. His work focuses on developing mathematical and computational models for predicting physical, thermal, and optical properties of engineering materials using modern statistical and machine learning techniques.

Dr. Rizwan is also interested in educational innovation, integrating technology into mathematics education and developing high-quality academic resources for engineering students. His objective is to promote analytical thinking, mathematical reasoning and problem-solving skills among future engineers through effective teaching, research and academic service.

Life Membership

1. Andhra Pradesh and Telangana Society for Mathematical Sciences (APTSMS) (LM-1633) Life Member
2. Indian Society for Technical Education (ISTE) (LM-56464)

Book Chapter

1. Machine Learning and Big Data: Concepts, Algorithms, Tools and Applications
CHAPTER 3 Correlation and Regression (Pages: 53-69)
15th July 2020 WILEY Scrivener Publishing LLC [DOI:10.1002/9781119654834](https://doi.org/10.1002/9781119654834)

Publications

1. Machine learning refractive index model and nitrogen implantation studies of zinc Arsenic Tellurite Glasses published on 6th Sept 2023 Journal of the Australian Ceramic Society
2. Regression-Based Mathematical Framework for Raman Spectra of Oxide Glasses International Journal of Research Culture Society (IJRCS) Vol-8 Issue-8 Aug 2024
3. Regression Based Mathematical Modelling for Density Estimation of Oxide Glasses IJRSET Vol-13 2024
4. Regression Techniques for Predicting properties of Oxide Glasses (ID-39270) International Conference on Computational Intelligence and Soft Computing (ICCISC) conducted by Geethanjali College of engineering and Technology 19th and 20th September 2025

Patents

1. Republic of South Africa 31st May 2023
2. Federal Republic of Germany 25th Sept 2023

FDPs/SEMINARS/WORKSHOPS/ CONFERENCES/ SHORT TERM COURSES/ WEBINARS ATTENDED:

1. International Conference on Computational Intelligence and Soft Computing (ICCISC) conducted by Geethanjali College of Engineering and Technology 19th and 20th September 2025
2. International Conference on Advances in Mathematical Sciences and their Technological Applications (ICAMSTA-2025) and XXXIV Congress of APTSMS 12th to 14th December 2025 held at Department of Mathematics Osmania University
3. International Conference on Multifunctional Materials for Societal Applications (ICMMSA- 2025) conducted by Department of Physics Osmania University Hyderabad from 26- 28th March 2025
4. UGC-Sponsored Online ShortTerm Course on ICT tools organized by UGC- Malviya Mission Teacher Training Center Hyderabad from 24th September 2024 to 30th September 2024
5. Faculty Development Program in Emerging Technologies WAYNE STATE UNIVERSITY 17th November to 30th November 2022
6. International Faculty Development Program on Demystifying Optimization Techniques organized by Department of Mathematics from 22nd to 27th March 2021
7. Two day Awareness Workshop on Improving Research and Performance Outcomes Tuesday 31st August 2021 at Elsevier Zoom Webinar

8. International Conference on Applied Mathematics and Civil Structures (ICAMCS-2021) jointly organized by Department of Mathematics and Department of Civil Engineering Sri Sivasubramaniya Nadar College of Engineering Chennai from February 12th to 13th 2021
9. Online Short Term Course on Python for Machine Learning from 02-08-2021 to 06-08-2021 conducted by National Institute of Technology Warangal
10. University Distinguish lecture series delivered by Professor Indrani vice chancellor Birla Institute of Technology (BIT) SRM University on 5th September 2021
11. Webinar on Relevance of Mathematics in control Systems organized by KPR Institute of Engineering and Technology on 07-08-2021
12. All India Council for Technical Education 26th oct 2020 to 30th oct 2020 at Chaitanya Bharti Institute of Technology
13. National level 7 days webi series on popularizing less popular sports and games 6-11-2020
14. International Faculty Development Program on Mathematical Modeling in Multidisciplinary Domain from 1st June to 7th June 2020
15. Two day National Level Online workshop on insightful Rudiments of originating Google Forms and generating certificates 25th September 2020 to 26th September 2020
16. Faculty Development Program in Applied Numerical Methods organized by Department of Mathematics and Statistics 28th September 2020 to 3rd October 2020
17. Two one day webinars on application of mathematics in engineering conducted by KPRIET from 8th September 20 to 9th September 2020
18. Webinar for Faculty Development Program Outcome Based Education Software organized by VMEDULIFE 16th July 2020
19. One day Webinar Redefining Strategies and Execute Innovative Approaches for Business and HR during Covid-19 and Post Covid on 3rd October 2020 organized by Balaji Institute of Management Sciences Warangal Telangana
20. National Webinar on Fascinating World of Mathematics and its Applications to Blood Flows organized by Siddhartha College of Arts and Science Vijayawada 27th June 2020
21. Six day Faculty Development Program Applications of Mathematics in Engineering conducted by KPRIET From 20th to 25th July 2020
22. Online National Level Faculty Development Program Orienting Applications and Conceptualized Aspects of Sciences and Humanities organized by Department of Humanities and Sciences Balaji Institute Warangal from 21st July 2020 to 25 July 2020
23. National level 7 days webi series popularizing less popular sports and games day three on 5th November 2020
24. National level 7 days webiseries on popularizing less popular sports and games Judo on 6th November 2020
25. National Level 7 Day webi series on popularizing less popular sports and games day 5 Road cycling on 7th November 2020

26. One day National Webinar Overview and Applications of Abstract Algebra hold on 7th September 2020 Organized by Telangana Social Welfare Residential Degree College for Women kothagudem
27. Two days National Webinar on Mathematical Modeling and Applications organized by Department of Science and Humanities RMK College of Engineering and Technology 27th July 2020 to 28th July 2020
28. Online Faculty Development Program on use of LMS Virtual Teaching and OBE Software for engineering colleges held on August 20, 2020 Vmedulife
29. National level online in Mathematics and Aptitude conducted by Department of Mathematics Andhra Loyola Institute of Engineering and Technology Vijayawada during 19th -22nd June 2020
30. One week National level FDP online on Mathematical Modeling and Simulation from 25th to 30th June 2020 organized by Department of Mathematics MVSR Engineering College
31. International webinar on 5G Network Overview organized by Department of ECE of Mahindra College of Engineering and Technology on 3rd July 2020
32. Two-day online FDP on Applications of Mathematics in Engineering organized by Department of Mathematics and Humanities MGIT Hyderabad during 3rd and 4th July 2020
33. International webinar on Emerging Trends in Graph Theory organized by PG and Research Department of Mathematics Sacred Heart College from 14th to 16th June 2020
34. National Level Online Quiz in Mathematics conducted by Reva University on 18th June 2020
35. Meandering of Specializations a Webinar organized by Department of Electronics and Communication Mahindra College of Engineering on 23rd June 2020
36. Two Days National Level FDP on Techniques and Applications in Teaching Engineering Mathematics held on 10th and 11th June 2020 Organized by K Ramakrishnan College of Engineering Trichy Tamilnadu
37. Four Day Faculty Development Program on Applications of Mathematics in Engineering conducted by Department of Mathematics KPRIET held from 25th to 28th August 2020
38. Five Day Faculty Development Program on Applications of Mathematics in Engineering conducted by Department of Mathematics KPRI ET Held from 27th to 31st July 2020
39. Attended Webinar on Software Reliability conducted by Department of Mathematics KPRIET on 9th October 2020
40. Attended Webinar on Applications of Nature Inspired Optimization Techniques for Solving Real Life Problems conducted by Department of Mathematics KPRIET on 8th October 2020
41. Two Day Webinars on Applications of Mathematics in Engineering conducted by Department of Mathematics KPRIET held from 8th to 9th September 2020
42. Attended Webinar on MATLAB Programming on Differential Equations conducted department Mathematics VIGNANS University Guntur from 20th to 21st June 2020

43. One Day Webinar on Blended Learning and Mathematical Relevance to Real World Applications organized by Department of Mathematics Anwar-ul-uloom College on 5th July 2020
44. Attended One Day Webinar on How to create course activities in Open Source Online Learning conducted by Department of Mathematics Hindu College Guntur on 14th June 2020
45. One Day National Webinar on Microscopy of Functional Materials and Spectroscopy organized by Department of AS&H Tirumala Engineering College on 22nd June 2020
46. National Level Short Term Training Program on Propositions of Soft Skills and their Relevance to Life and Academics from 15th to 17th September 2020 organized by Department of English BITS Warangal India
47. Attended International Webinar on Laplace Transforms and its Applications organized by Department of Humanities and Science Malla Reddy college Conducted on 22nd June 2020
48. International Quiz on e- Learning conducted by Bharat Institute of Engineering and Technology on 22nd June 2020
49. One Week International Webinar organized by Mahatma Gandhi Institute of Technology Hyderabad from 12th to 16th October 2020
50. Attended Webinar on Applications of Nature Inspired Optimization Techniques for Solving Real Life Problems conducted by Department of Mathematics KPRIET 8th October 2020
51. One-week STTP on Challenges and opportunities in Smart City implementation in IoT era organized by Department of Electronics and Telecommunication Engineering JSPM college from 19th to 24th October 2020
52. One week online short-term training program on machine learning and IoT technologies for environmental issues Phase two 26th to 31st October 2020 organized by Department of Computer Science and Engineering at PVP Siddhartha Institute of Technology Vijayawada Andhra Pradesh
53. University Distinguished Lecture Title Art of Science in the Time of Virus and Beyond Delivered by Ashutosh Sharma Government of India SRM University held on 5th December 2020
54. One week online AICTFTP on outcome based education and research methodologies conducted by Gokka Raju Ranga Raju Institute of Engineering and Technology Hyderabad during 21 to 27 December 2020
55. One-week Faculty Development Program in mathematics in real, app Computing learning environment 19 to 26 July 2019 KPR Institute of Engineering and Technology Department of Mathematics
56. One-week Faculty Development Program in Mathematics in Real Applied Computing Learning Environment (MIRACLE) conducted by MVSR Engineering College from 1st July to 6th July 2019
57. Indian Society of Theoretical and Applied Mechanics (ISTAM) 2017 organized by Department Mathematics Mechanical and Civil Engineering university College Osmania University from 15th to 18th December 2017

58. Two-day Workshop on Engineering Mathematics and its Applications organized by Department of Humanities and Sciences CVR College National Level Workshop on Mathematical Technology conducted by Department of Mathematics from 27th June to 28th June 20
59. Two-day workshop Advances in Research and Innovations in Mechanical Engineering (ARIME) 2017 conducted by Mechanical Engineering Department MJCET 30th January to 1st February 2017
60. Faculty Development Program on ICT for Education conducted by IIT Bombay 20th August to 7th September 2017
61. Two Day Workshop on Engineering Mathematics and its Applications organized by CVR college on December 8th to 9th 2017
62. One day seminar relevance of Mathematics to real world problems conducted by Department of Mathematics Osmania University Hyderabad November 2016
63. Indian Society of Theoretical and Applied Mechanics (ISTAM) 2016 organized by VIT Chennai from 11th to 14th December 2016
64. Attended a two-week ISTE Short Term Training Program (STTP) on “Pedagogy for effective use of ICT in engineering education” during 5th Jan to 21st Jan, 2015 which is organized by IIT Bombay.
65. A National Workshop on Mathematical Technology organized by Department of Mathematics MJCET on 27th and 28th 2014
66. Faculty Development Program at Shadan Women’s College of Engineering and Technology 23rd July 2011
67. Orientation Course conducted by UGC Academic Staff College Maulana Azad National Urdu University (MANUU) 14th April 2011 to 11th May 2011
68. National Conference on Mathematical Modelling in Engineering and Technology February 13th and 14th 2010
69. Indian Society of Theoretical and Applied Mechanics (ISTAM) 2010 organized by National Institute of Technology Hamirpur Himachal Pradesh from 18th to 21st Dec 2010
70. National Conference on Intelligent Systems NCIS-24th & 25th, 2007 MJCET
71. Course on Mathematical Modelling in Bio-Fluid Mechanics conducted by Lords Institute of Engineering and Technology 18th June 2006 to 27th August 2006 (every Sunday)
72. A National Level Technical Symposium SANKETIKA 2006 Lords Institute of Engineering and Technology