

Dr. IMRAN QASIM MEMON

 **Work :** Office No.6 Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, 76060, Jamshoro, Pakistan

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 **Website:** <https://www.muet.edu.pk/departments/basic-sciences-related-studies/faculty-members>

 **WhatsApp Messenger:** +923363745027

Gender: Male **Date of birth:** 19/09/1978 **Nationality:** Pakistani

ABOUT ME

Assistant Professor with 23 years of teaching experience.

RESEARCH INTEREST

RESEARCH INTEREST

- Fractional Calculus and Transforms
- Heat and Mass Transfer
- Computational Fluid Dynamics
- Differential Equations
- Partial Differential Equations
- Complex Analysis
- Statistics and Probability
- Numerical Analysis

WORK EXPERIENCE

[Currently]

Assistant Professor

Mehran University of Engineering and Technology

City: Jamshoro | **Country:** Pakistan

- Delivered lectures, conducted tutorials, and advised students on course selection.
- Developed curriculum, designed assessments, and provided academic guidance.
- Actively engaged in scholarly activities, research grants, and collaborations with peers.
- Involved in professional development and administrative responsibilities.

[14/09/2004 – 27/09/2017]

Lecturer

Mehran University of Engineering and Technology

City: Jamshoro | **Country:** Pakistan

- Delivered lectures, conducted tutorials, and advised students on course selection.
- Developed curriculum, designed assessments, and provided academic guidance.
- Actively engaged in scholarly activities, research grants, and collaborations with peers.
- Involved in professional development and administrative responsibilities.

[2024] **Ph.D. (Applied Mathematics)**

Mehran University of Engineering & Technology <https://www.muett.edu.pk/>

City: Jamshoro | **Country:** Pakistan

[2017] **M.Phil. (Computational Fluid Dynamics)**

Isra University of Hyderabad <https://www.isra.edu.pk/>

City: Hyderabad | **Country:** Pakistan |

[2002] **Msc. Hons (Mathematics)**

University of Sindh <https://www.usindh.edu.pk/>

City: Jamshoro | **Country:** Pakistan |

[2001] **Bsc. Hons (Mathematics)**

University of Sindh <https://www.usindh.edu.pk/>

City: Jamshoro | **Country:** Pakistan |

DIGITAL SKILLS

**MS. OFFICE
MATLAB
MATH CAD
FLUENT**

PUBLICATIONS

- [1] **Imran Qasim Memon**, Kashif Ali Abro, Muhammad Anwar Solangi, Asif Ali Shaikh, Functional shape effects of nanoparticles on nanofluid suspended in ethylene glycol through Mittage–Leffler approach, *Physica Scripta*, 96(2), 025005 (2020); <https://doi.org/10.1088/1402-4896/abd1b3>.
- [2] **Imran Qasim Memon**, Kashif Ali Abro, Muhammad Anwar Solangi, Asif Ali Shaikh, Thermal optimization and magnetization of nanofluid under shape effects of nanoparticles, *South African Journal of Chemical Engineering*, 45, 2023, 201–209
- [3] Kashif Ali Abro, **Imran Qasim Memon**, Ambreen Siyal, Thermal transmittance and thermo–magnetization of unsteady free convection viscous fluid through non–singular differentiations, *Physica Scripta*, (2020), <https://doi.org/10.1088/1402-4896/abc981>.

- [4] Samia Riaz, Muhammad Amir, **Imran Qasim Memon**, Qasim Ali, Kashif Ali Abro, A comparative study for solidification of nanoparticles suspended in nanofluids through non-local kernel approach, *Arabian Journal for Science and Engineering*, (2022), <https://doi.org/10.1007/s13369-022-07493-y>
- [5] Maryam Al Owidh, Basma Souayah, **Imran Qasim Memon**, Kashif Ali Abro and Huda Alfannakh, Heat transfer and fluid circulation of thermoelectric fluid through the fractional approach based on local kernel, *Energies*, 15, 8473, (2022), <https://doi.org/10.3390/en15228473>
- [6] Kashif Ali Abro, Abdon Atangana, **Imran Qasim Memon**, Comparative analysis of statistical and fractional approaches for thermal conductance through suspension of ethylene glycol nanofluid, *Brazilian Journal of Physics*, (2022), <https://doi.org/10.1007/s13538-022-01115-6>.
- [7] Liaquat Ali Panhwer, Kashif Ali Abro, and **Imran Qasim Memon**, Thermal deformity and Thermolysis of magnetized and fractional Newtonian fluid with rheological investigation, *Physics of Fluids*, (2022); <https://doi.org/10.1063/5.0093699>
- [8] Qasim Ali, Samia Riaz, **Imran Qasim Memon**, Irfan Ali Chandio, Muhammad Amir, Ioannis E. Sarris, and Kashif Ali Abro, Investigation of magnetized convection for second-grade nanofluids via Prabhakar differential, *Nonlinear Engineering* 2023; 12: 20220286, <https://doi.org/10.1515/nleng-2022-0286>.
- [9] Saima Bhati, Mahera_Erum Baloch, **Imran Qasim Memon**, Scientific computation of annular flow of Newtonian fluid, *Sindh University Research Journal-SURJ (Science Series)*, 48(2). <https://sujo.usindh.edu.pk/index.php/SURJ/article/view/4931>
- [10] Kashif Ali Abro, Sanaullah Dehraj, Saleem Ahmed Naich, **Imran Qasim Memon**, Effects of Non-Integer Order Derivative over The Slippage of Fractionalized Second Order Fluid Flow, *Journal of Applied Environmental and Biological Sciences (JAEBS)*, 8(2)1–10 2018.
- [11] Kashif Ali Abro, Zubair Ahmed Kalhor, Saima Bhatti, **Imran Qasim Memon**, Investigation of Incompressible Porous Flow in Maxwell Fluid, *Sindh Univ. Res. Jour. . (Sci. Ser.)*, 48(4) 899–906 (2016).

- [12] S. Iqbal, S. Nizamani, I. Qasim , S. Siraj , M. A. Soomro , A. Ayaz. Implementing Machine Learning Models – An Analysis of Agricultural Weather and Soil Data. Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan Vol. 29 No. 1 – 2024 ISSN:1813–1786 (Print) 2313–7770 (Online). 2024
- [13] Lubna Naz Araian, Imran Qasim Memon, Asghar Ali Maitlo. Muhammad Afzal Soomro, Sanaullah Dehraj, Rajab Ali Malookani, Asif Mehmood Awan. The Resonance of Septic Non linearity of the Forced and Damped Duffing Oscillator. Journal of Human University (Natural Sciences). Vol.50.no.6 june 2023.

LANGUAGE SKILLS

Mother tongue(s): Sindhi

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

RECOMMENDATIONS

Name: Professor. Dr. Muhammad Anwar Solangi

Professor

Department of BSRS, Mehran University of Engineering & Technology, Jamshoro, Pakistan.

Email: anwar.solangi@faculty.muet.edu.pk

Name: Dr. Kashif Ali Abro

Assistant Professor

Department of BSRS, Mehran University of Engineering & Technology, Jamshoro, Pakistan.

Email: kashif.abro@faculty.muet.edu.pk