

Raza Muhammad Khan

Email:

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Professional Profile

- Assistant Professor offering around 12 years of teaching and laboratory experience in the Department of Polymer & Petrochemical Engineering. In-house trainings and attend various lectures on teaching tools.

Experience

NED University of Engineering & Technology, Karachi, Pakistan

June 2010 to Present

Assistant Professor

Appointed as Assistant Professor in the Department of Polymer and Petrochemical Engineering

- Teaching core subjects of Polymer engineering i.e. **Introduction to Polymer & Petrochemical Engineering, Polymer Processing, Polymeric Materials, Additives and Blending and Advanced Polymer Engineering.**

NED University of Engineering & Technology, Karachi, Pakistan

May-2008 to June 2010

Senior Laboratory Engineer

- Responsible for arranging experimental work on different processing machines i.e. Injection Molding, extrusion, blow molding and etc.

Post Graduate Research Work

Title: 3D Simulation of Gas Assist Injection Molding and Experimental Validation.

- Check the effect of gas pressure and gas delay time on the residual wall thickness of the part and compare the experimental and simulation work in order to check the validation of simulation software (MPI)
- Material: Talc filled Polypropylene
- Processing equipment: Gas Assist Injection Molding Machine
- Simulation software: Mold Flow Plastic Insight.

ENGINEERING SOFTWARE/COMPUTER SKILLS

- Image Tool TM (Quantitative Image Analysis)
- Moldflow Plastic Insight (Simulation Software)

Training

1. Topic: **Technical Computing with MATLAB**
Held at: N.E.D University of Engineering & Technology
Duration: 26 to 28 September 2016.
2. Topic: **Professional Competency Enhancement Programme for University Teachers**
Held at: NED Academy (NED University of Engineering & Technology) under National Academy of Higher Education (HEC), Pakistan.
Duration: 4 Weeks
Contents:
 - Training covers the topic related to, teaching as Profession, Curriculum Development Assessment and Evaluation, Academic Planning and Management, Learner's Psychology, Communication Skills, Andragogical Skills, Research Methods and Skills and Micro Teaching.
3. Topic: **Research Orientation.**
Held at: NED University of Engineering & Technology, Karachi.
4. Topic: **Duties and responsibilities of class advisor.**
Held at: NED University of Engineering & Technology, Karachi.

Seminars/ Workshop/ Forum

- Attended the “**textXpo 2011- 20th International Forum for Material Testing**” at Zwick/Roell, Ulm Germany
- Attended a workshop on “**Developing Industry Driven Technologies**” organized by Office of Research, Innovation and Commercialization (ORIC) NED University, Institution of Research Promotion (IRP) and Pakistan Scientific and Technological Information Center (PASTIC).
- Attended a seminar on “**Safe Handling of Chemicals**” organized by BASF Chemicals & Polymers Pakistan (Private) Ltd.

Education

NED University of Engineering & Technology, Karachi. Ph.D Chemical Engineering	In Progress
University of Bradford, United Kingdom M.Sc. Advanced Materials Engineering	December 2007
Hamdard University, Karachi Bachelor of Polymer Engineering	May 2006

1. **Raza Muhammad Khan**, Asim Mushtaq, Amina Israr and, Asra Nafees “Comparative Study for Melt Flow Index of High Density Polyethylene, Low Density Polyethylene and Linear Low Density Polyethylene” Pakistan Journal of Engineering and Applied Sciences Series A: Physical Sciences, Volume 25, No. 2, 18–25 2019.
2. **Raza Muhammad Khan**, Asim Mushtaq, Zaeem Uddin Ali, Sindhia Abbasi, Roheen Naeem Lodhi, Syed Muhammad ul Haq, Syed Atif Shakeel “Development and Characterization of Walnut Shell and Date Seeds Powder in Low Density Polyethylene” Bulgarian Chemical Communications, Volume 52, No. 01, 90-97, 2020.
3. **Raza Muhammad Khan**, Asim Mushtaq, “Effect of Reinforced Glass Fibre on the Mechanical Properties of Polyamide” Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences, Volume 64A, 10-18, 2021.
4. Asim Mushtaq*, **Raza Muhammad Khan**, Zaeem Uddin Ali, Abdul Rafay Ali Khan, Muhammad Mazhar-ul-Haque, Tariq Ali, Muhammad Sharyar Khan “Comparison Study Between The Properties of Kerosene Naphthalene Blend With Turpentine” Bulgarian Chemical Communications, Volume 53, No. 01, 46-54, 2021.
5. Asim Mushtaq*, Asra Nafees, **Raza Muhammad Khan**, Amina Israr and Zaeem Uddin Ali “Development of Enhanced Polymer -Fiber Reinforced Concrete” Journal of Engineering and Applied Sciences, Volume 40, Issue 1, 44-51 2021.
6. **Raza Muhammad Khan**, Asim Mushtaq, and Zaeem Uddin Ali, “Effect of Ground Tire Rubber on Mechanical Properties of Low Density Polyethylene” International Journal of Membrane Science and Technology, Vol. 8, No. 2, 2021.