

Dr. Asra Nafees

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PROFESSIONAL SUMMARY

Dedicated academic professional with over nine years of teaching and research experience in Polymer and Petrochemical Engineering. Demonstrated expertise in curriculum development, OBE implementation, and academic quality assurance. Skilled in supervising research, organizing technical events, and fostering collaboration with industrial and academic partners.

TEACHER & RESEARCH INTEREST

EDUCATION

PhD (Chemical Engineering)

NED University of Engineering and Technology, Karachi
2025

Masters (Polymer Engineering)

NED University of Engineering and Technology, Karachi
2016–2018, CGPA: 3.85

BE (Polymer & Petrochemical Engineering)

NED University of Engineering and Technology, Karachi
2007–2011, 1st Division

HSC

Sir Syed Govt. College for Women, Karachi
2005–2007, Grade: A (75%)

SSC

The Mama Parsi Girls' High School, Karachi
2004–2005, Grade: A-One (84%)

ACADEMIC EXPERIENCE

- Assistant Professor, NED University of Engineering and Technology (Oct 2025 – Present)
- Lecturer, NED University of Engineering and Technology (2016 – 2025)

- Lab Engineer, NED University of Engineering and Technology (Contract, 2 Years)
- Teacher, Beaconhouse School System (2 Years 9 Months)

ADMINISTRATIVE & COORDINATION ROLES

- Curriculum design and preparation of Self-Assessment Reports (SAR).
- Writing research proposals, papers, and academic publications.
- Represented institution at conferences and seminars.
- Organized technical and personality development events for students.
- Completed Continuous Professional Development (CPD) activities.
- Established collaborative links with industrial and public organizations.
- Organized international conferences and technical seminars for students.

RESEARCH PUBLICATIONS

- Exploring the Properties of Recycled Tyre Rubber for Flexible Asphalt Pavement.
(Nadia Khan*, **Asra Nafees**, A. Hussain, G. Zaidi, M. Osama, S. Ghaffar)
- Reinforcement of Lime Ash Particles in LDPE.
(N. Khan*, Z. Ahmed, M.A. Wasif, **A. Nafees**)
- Selection of Appropriate Model for the Synthesis of Coal Water Slurry (CWS) Using PVA and TEA.
(Nadia Khan, Syed Ali Ammar Taqvi, Hamza Bin Rafiq, **Asra Nafees**, Haslinda Zabiri)
- Development of Enhanced Polymer Fiber Reinforced Concrete.
(Asim Mushtaq, **Asra Nafees**, Raza Muhammad Khan, Amina Israr, Zaeem Uddin Ali)
- Investigating the Effect of Nano-Crystalline Cellulose in Nitrile Butadiene Rubber Matrix for Improved Thermo Mechanical Properties.
(**Asra Nafees**, Saud Hashmi, Rafiq Ahmed)

CONFERENCES PAPERS

- Effect of Xanthum gum concentration on the rheological properties of Commercial Tomato Ketchup.
(Rafiq Ahmed, R.M Khan, **Asra Nafees**)
- Effect of Nano-Crystalline Cellulose Reinforcement on mechanical Properties of Nitrile Butadiene Rubber for Seal Application.
(**Asra Nafees**, Saud Hashmi, Rafiq Ahmed)

CONFERENCES & SEMINARS

- Organizing committee member: International Conference on Advanced Materials and Process Engineering (First & Second).

- Presented paper at 2nd International Conference on Advanced Materials and Process Engineering.
- Attended and organized seminars on Distillation Column, EHS, Rubber Technology, Industrial Orientation, Utilities, and Process Safety.

TRAININGS & WORKSHOPS

- Implementation of Objective 2k16: Effective Teaching & Learning Practices (NED).
- Roles & Responsibilities of Class Advisor (NED).
- Roles & Responsibilities of Invigilator & Examiner (NED).
- Three-Day MATLAB Training (NED).
- Faculty Development Program by QEC (NED).

SKILLS & AWARDS

- Fluent in English with strong communication and presentation skills.
- Proficient in MS Office, HYSYS.
- Strong classroom management, coordination, and leadership skills.
- Awarded certificates for exceptional performance and support at Beaconhouse School System.

REFERENCES

Available upon request.