

ASIM MUSHTAQ

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Objective Chemical Engineering has revolutionized human civilization at a staggering pace. With each new discovery and exploration scientists and researchers are pushing back the limits of the unknown. Rigorous efforts aimed at modifying and improving chemical processes and engineering of more useful materials offer new horizons to all who dare to endeavor. In wake of the developments in this area, I want to pursue a Ph.D. degree and engage in research work in the field of Chemical Engineering with my emphasis on Petrochemical and Environmental.

Academic

Education	Year	Institution
M.E (Envir.)	2007	N.E.D
B.E (Chem.)		Dawood College of Engg. & Tech.

Project

Designing and processing of wastewater Treatment by an Activated Sludge Process with in Environmental Aspects.

Working Experience

- 3.10 Years experience as a Assistant Professor in **N.E.D University**

NED University of Engineering & Technology, Karachi, Pakistan **Assistant Professor**

2008 to Present

Appointed as Assistant Professor in the department of Polymer and Petrochemical Engineering.

- Developed course plans that met varied industrial needs, evaluated and assessed student development, and implemented study methodologies to enhance student's progress.
- Utilized varied teaching techniques to meet the needs of visual, kinesthetic and auditory learners for all subject areas.
- Identified areas of difficulty and prepared lessons to assist students in overcoming them.
- Set high expectations for student behavior, maintaining standards through classroom management techniques and positive reinforcement, resulting in increased positive student behavior and learning, emphasizing respect for all.

- Conducted classroom and lab instruction in Chemical and Petrochemical Engineering.
 - Designed and implemented lessons involving multimedia.
 - Designed classroom presentations to meet students' needs and abilities.
 - Used reading recovery strategies with students, which enabled them to excel their reading ability and move up into a higher level of reading.
 - Handled lecturing responsibilities successfully.
 - Arranging class schedules for whole academic year.
 - Manage scholarships and evaluate the deserving students.
 - Design practical manual for the laboratories.
 - Conduct practical with demonstration at laboratories of the corresponding courses.
 - Arrange lectures from industrial professionals'.
- 4-Years working in the **Bosicor Pakistan Limited Oil Refinery.**
 - 17-Month working in the **Chemical Formaldehyde Plant in Standard Board Pvt. Limited** as a **Shift Incharge.**
 - Four weeks Internship at **Pakistan Steel.**
 - Four weeks Internship at **BASF Pakistan (Pvt.) Limited**
 - Five weeks Internship at **Pakistan Refinery Limited.**
 - Six weeks Internship at **Pakistan State Oil Company Limited.**

Training

1. Topic: ***Effective Teaching Techniques***
 Held at: NED University of Engineering & Technology, Karachi. January 2008
 Duration: 15 days
 Contents:
 - This training covers the latest methodologies to improve the lecture delivering criterion.
 - Use of multimedia resources and web modules for better learning.
 - Computer based flash animated process descriptions.
2. Topic: ***Duties and responsibilities of Invigilator***
 Held at: NED University of Engineering & Technology, Karachi. September 2009.
 Duration: 01 day
 Contents:
 - Training covers the duties and responsibilities of Invigilator, and general procedures in conducting examination.
 - Monitoring and reporting procedure.
3. Topic: ***Safety in Handling Laboratory Chemicals***
 Held at: NED University of Engineering & Technology, Karachi. October 2009.
 Duration: 03 days
 Contents:
 - Awareness of chemical laboratories hazards

- Standard procedures in handling laboratory chemicals
- Remedial measures in case of accidents

4. Topic: ***Duties and responsibilities of class advisor***

Held at: NED University of Engineering & Technology, Karachi. April 2010

Contents:

- Pursued new learning tools to enhance educational programs.
- Awarded top performance rating in principal's evaluations due to individual assistance designed for students with special needs.
- Utilize advanced technology skills to create and publish training and development materials for individual and classroom distribution.
- Collaborated with colleagues in developing a program enabling teachers to better understand ADD in students.
- Developed entire curriculum, including social and communications skills. Implemented lesson plans of teachers to effectively teach elementary students in a variety of subjects.
- Assisted students by providing individualized instruction based on observation. Supervise entrance examinations.

5. Topic: ***Presentation and Communication Skills***

Held at: NED University of Engineering & Technology, Karachi. May 2010

Contents:

Seminars / Conferences / Symposia / Lectures / Workshops attended

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1. Short Course on Activated Carbons & their Environmental Applications
 2. Occupational Health Safety & Environment
 3. Pakistan & Regional Energy Forum
 4. Hydrogen Technologies – Market presentations at NED UET
 5. Air quality and global warming workshop at NED UET
 6. Bio-diesel Alternative fuel for the present and future at NED UET
 7. Technological advances for treating oily production at NED UET

Project supervise for Undergraduate Students

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- Reduction of Energy cost over a distillation column
 - LPG Recovery from Off Gases and Fuel Refinery
 - Process and Design study of ethylene unit based LPG
 - Production of Sodium Hydroxide
 - Production of Polyvinyl Chloride

Membership : Member of **Pakistan Engineering Council**
Member of **Pakistan Association of Scientists and Scientific Professions**

Computer Skills Conversant in the use of all **Microsoft Windows, MS Word, MS DOS, MS Power Point.**