

## ENGR. WASEEM KHAN



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### ***Assistant Professor***

Metallurgical Engineering Department

**Cell #** +92-342-2235655

NED University of Engineering & Technology

**Tel #** +9221-99261261-8 **Ext #** 2517

University Road, Karachi, Pakistan 75270

**E-mail:** waseemkhan@neduet.edu.pk  
wasi12khan@gmail.com



### **SUMMARY**

To prolong the educational, research and development work in the field of Materials & Metallurgical engineering.



### **ACADEMIC CREDENTIALS**

#### **NED University of Engineering and Technology**

Master of Engineering [ME], Materials Engineering, First Division (3.85 CGPA)

2013-2016

#### **NED University of Engineering and Technology**

Bachelor of Engineering [BE], Metallurgical Engineering, First Division with Distinction (82.21%)

2008 – 2011

#### **Govt. Degree College Stadium Road, Karachi**

HSC, Pre-Engineering [2006], A-grade (73%)

2004 – 2006

#### **Central Model Ideal Secondary School, Karachi**

SSC, Science [2004], A-grade (78%)

2002 – 2004

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## WORK EXPERIENCE

### Assistant Professor

Metallurgical Engineering Department  
NED University of Engineering & Technology  
March 2018 – to date | Karachi

### Lecturer

Metallurgical Engineering Department  
NED University of Engineering & Technology  
January 2016 – March 2018 [2 Years & 2 months] | Karachi

### Senior Executive Engineer

Aisha Steel Mills Limited  
January 2012 – September 2015 [3 Years & 8 months] | Karachi

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## PUBLICATIONS

- Abdul Rauf Jamali, Ali Dad Chandio, **Waseem Khan**, Zubia Anwer, Imtiaz Ali Soomro, "Plasmonic effect of gold nanoparticles surrounded by multielectric matrices", Mehran University Research Journal of Engineering & Technology, July 2017, Vol 36 (3): p. 741-744.
  - Abdul Rauf Jamali, **Waseem Khan**, Ali Dad Chandio, Zubia Anwer and Dr. Muhammad Hayat Jokhio, "Effect of Cryogenic Treatment on Mechanical Properties of AISI 4340 & 4140 Steel", Mehran University Research Journal of Engineering & Technology, 2017 (accepted manuscript).
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## CONFERENCES

- Abdul Rauf Jamali, Ali Dad Chandio, **Waseem Khan**, Zubia Anwer, Imtiaz Ali Soomro, "Plasmonic effect of gold nanoparticles surrounded by multielectric matrices", The 2nd National Conference on Metallurgy and Materials (NCMM-16), 11th August 2016, Mehran University of Engineering and Technology, Jamshoro, Pakistan.
  - Abdul Rauf Jamali, **Waseem Khan**, Ali Dad Chandio, Zubia Anwer and Dr. Muhammad Hayat Jokhio, "Effect of Cryogenic Heat Treatment on Mechanical Properties of AISI 4340 Steel", The 2nd National Conference on Metallurgy and Materials (NCMM-16), 11th August 2016, Mehran University of Engineering and Technology, Jamshoro, Pakistan.
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## ACADEMIC TRAINING

- **ISO training on "Faculty Development Program"**

NEDUET

January 2018

- **ISO training on “Resource Sharing for Optimum Use & Benefits”**

NEDUET

January 2018

- **ISO training on “Responsibilities of Class Advisor”**

NEDUET

December 2017

- **Productivity Improvement via Lean Manufacturing**

NEDUET

December 2012

- **Productivity Improvement via Method Study and Work Measurement**

NEDUET

December 2012

- **Workshop on Vacuum Science and Technology**

NINVAST

December 2010

- **MS Office 2007, E-mail and Internet**

PIA Training Centre

September 2007 - November 2007

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## TECHNICAL TRAINING

- Spark Emission Spectroscopy
  - Micro/Macro Vicker hardness, Rockwell Superficial & Universal Hardness Tester
  - X-ray Diffraction Equipment
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## THESIS & PROJECTS

### **Microstructural Characterization of Spray Painted, Powder Coated, Anodized and Galvanized Samples (ME Thesis)**

January 2015 – June 2015

### **Extraction of Magnesium by Modified Bulzano, Pudgeon and Magnetherm Process (Final Year Project)**

January 2011 – December 2011

- ❖ Design, development and fabrication of new process for the production of magnesium by using the concept of bulzano, pudgeon and magnetherm process.

## Reverse Engineering Project on Nonferrous Metals (Third Year Project)

January 2010 – December 2010

- ❖ Reverse engineering project on nonferrous metals e.g. Boeing engine compressor blade (wrought aluminum-copper-zinc alloy), Household valve (copper-zinc alloy), solder wire (lead-tin alloy), Cessna 420 body sheet (aluminum-copper alloy), Boeing engine cowling (pure titanium) and fluorescent bulb filament (pure tungsten).



### TAUGHT COURSES

- Nanostructured Materials
- Fracture Mechanics & Failure Analysis
- Design, Selection & Characterizations of Engineering Materials
- Iron Making Processes
- Production & Refining of Materials
- Fuels & Furnaces
- Furnaces & Refractories
- Advances in Special Steels
- Refractories in Metallurgical Industries
- Foundry Principles, Methods & Practices
- High Temperature Materials & Superalloys



### ORGANIZATIONS

#### Life Time Membership (Registered Engineer)

Pakistan Engineering Council-PEC

June 2012–Present

PEC # Metal / 2846



### TECHNICAL COMPETENCIES

#### MS Office Applications

Word, PowerPoint, Excel, Access, Project and Outlook

#### Adobe Applications

Adobe Photoshop [ver. CS6], Adobe Flash [all versions] and Adobe Illustrator [ver. CS6]

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## LANGUAGES

### English

Professional working proficiency

### Urdu

Native or bilingual proficiency

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## ADDITIONAL INFO

### Personal Details

Father Name | Masoom Khan (Late)

Marital Status | Single

Sex | Male

Nationality | Pakistani

Identity Card No | 42201-6771475-5

Passport No | HA4124751

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