

# Abdul Rauf

Assistant Professor,  
Materials Engineering Department,  
NED University of Engineering & Technology,  
Tel: +9221-99261261-8 Ext. 2517



## Academic Qualifications

2012-2015: M.Sc. (Materials Science and Engineering), University of Kiel, Germany  
2007-2011: B.Egg. (Metallurgy and Materials Engineering) Mehran University

## Work Experience

01.2018-Present: Assistant Professor, (Materials Engineering Department), NED University Karachi  
02.2016-01.2018: Lecturer, (Materials Engineering Department), NED University Karachi  
08.2014-09.2015: Research Assistant, (Nanochemistry & Nanoengineering), University of Kiel  
10.2015-02.2016: Lecturer, (Metallurgy & Materials Engineering), Dawood University Karachi  
07.2012-10.2012: Production Engineer, Agha Steel Industries Karachi  
05.2011-07.2012: Production Engineer, Amreli Steel Limited Karachi

## Research Publications

M. K. Hedayati, M. Abdelaziz, **A. R. Jamali**, Dr. M. Elbahri, "Tailored Metamaterial Perfect Absorber", The 9th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, 7-12 September 2015, Oxford, UK.

**A. R. Jamali**, A.D. Chandio, W.Khan, Z. Anwer, I. A. Soomro, "Plasmonic effect of gold nanoparticles surrounded by multielectric matrices", published in Mehran University Research Journal of Engineering and Technology.

**A. R. Jamali**, W. Khan, A.D. Chandio, Z. Anwer and M. H. Jokhio, "Effect of Cryogenic Heat Treatment on Mechanical Properties of AISI 4340 Steel", accepted in Mehran University Research Journal of Engineering and Technology.

A.D. Chandio, S.H. Abro and **A. R. Jamali**, "Effect of Temperature and Time on Nickel Aluminide Deposition", published in Mehran University Research Journal of Engineering and Technology.

Z. Anwer, M. Sohail, W. Khan, and **A. R. Jamali**, "Effect of cryogenic treatment on corrosion resistance of medium carbon low alloy steel AISI 4340", 15th international symposium on advanced materials (ISAM-2017) 16-20 October 2017, National Centre for Physics.

## Academic Responsibilities

- Lectures and practical demonstration in undergraduate students
- Student class advisor
- Final Year Projects Supervisor

- Up-gradation of PEC (AC-1) file
- Member of Departmental Asset Management committee
- Member of Self-Assessment Team of Department
- Workshops organizer/conductor for laboratories
- Actively involved in industry-academia linkage

### **Scholarships/Honors**

- Prize award for master thesis from international center University of Kiel, Germany
- Prize award for top student in 2<sup>nd</sup> and 3<sup>rd</sup> year, metallurgy and materials engineering MUET

### **Material Science Laboratory Skills**

- Destructive and Nondestructive Testing Lab
- Heat Treatment and Phase Transformation Lab
- Clean Room (Photolithography, MEMS and NEMS)
- Physical and Chemical Vapor Deposition (PVD and CVD) Techniques
- Analytical Methods for material characterization (SEM, TEM, AFM, STM, XPS, XRD, OES, AAS & GCMS)
- Optical characterization lab (UV-Vis spectrometer & Spectroscopic ellipsometry & Profilometer)

### **Internship Trainings**

- Pakistan Steel Mill, Karachi, Pakistan
- Peoples Steel Mills (PSM) Limited, Karachi, Pakistan
- Pakistan Machine Tool Factory (PMTF), Karachi, Pakistan
- Pakistan International Airlines (PIA), Karachi, Pakistan
- Hussein Engineering Works Private Limited, Pakistan
- Metropolitan Steel Corporation (MSC) Limited, Pakistan

### **Software Skills**

Lab View, Mat Lab, Origin, Latex, End Note, Zotero, SPSS and MS Office

### **Language Skills**

English: Professional  
 German: Intermediate