

Dr. Ing. Abdul Rauf Jamali

Assistant Professor, (Materials Engineering)
NED University of Engineering & Technology
Email: engrabdulrauf@neduet.edu.pk



Academic Qualifications

2022-2024: Ph.D. in Materials Science (Research), TUM, Munich (Top 28th QS Ranking), Germany
2019-2022: Ph.D. in Materials Engineering (Course) from NED University
2012-2015: M.Sc. in Materials Science & Engineering, TF, University of Kiel Germany
2007-2010: B.E. in Metallurgy and Materials Engineering from Mehran University

Academic Experience

01.2018-Present: Assistant Professor/ Lab Incharge, (Materials Engineering), NED University Karachi
12.2022-01.2024: Visiting Scientific Researcher at Fraunhofer EMFT Munich Germany
02.2016-01.2018: Lecturer/Lab Incharge, (Materials Engineering), NED University Karachi
08.2013-09.2015: Research Assistant, (Nanochemistry & Nanoengineering), Germany
10.2011-02.2016: Lecturer/Lab Incharge, (Metallurgy & Materials), Dawood University Karachi
06.2010-10.2011: Production Engineer (Steel Melt Shop). Amreli Steels Karachi

Academic Responsibilities

- Lectures and Laboratory demonstrations to students
- Student class advisor and counselor
- Undergraduate thesis projects supervisor
- Member of the departmental asset management committee
- Member of self-assessment team
- Member of the examination review committee
- Member of the internal audit team
- Workshops organizer/conductor for laboratories
- Actively involved in industry-academia linkage

Research Publications

<https://scholar.google.com/citations?user=F-uqujoAAAAJ&hl=en&oi=ao>

Major Grants

2.7 Million from MoST funding, NEDUET Karachi (completed)
1.0 Million from AS&RB funding, NEDUET, Karachi (completed)
2.0 Million from IRSIP-HEC funding, Islamabad (completed)
5.0 Million from SDGF Grant USA (under consideration)

Material Science Laboratory Skills

- Synthesis and Characterization of organic polymers
- Clean Room (Photolithography, MEMS and NEMS)
- UHV Physical Vapor Deposition (PVD) Techniques
- Analytical Methods for material characterization (SEM, AFM, XRD, FTIR, OES, DSC, TGA, DMA & GCMS)
- Optical characterization lab (UV-Vis spectrometer & Spectroscopic ellipsometry & Profilometer)

Software Skills

Lab View, Mat Lab, Origin, Latex, EndNote, Zotero, SPSS, and MS Office

Scholarships/Honors

- Prize award for PhD thesis from NED University Karachi
- Prize award from HEC for PhD international exchange program
- Prize award for master thesis from international center University of Kiel, Germany
- Prize award for top student in 2nd and 3rd year, metallurgy and materials engineering MUET

Research Publications

- English: Professional
- German: Intermediate

Internship Training

- 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

Country Visited

Germany, France, Italy, Poland, Denmark, Portugal, Turkey, UAE, and Sri-Lanka.

Referee Details

Prof. Dr. Ali Dad Chandio

Chairman/Professor

Department of Metallurgical Engineering

NED University of Engineering & Technology

Website: <https://myd.neduet.edu.pk>

Research: <http://amse.neduet.edu.pk>

Email: alidad@neduet.edu.pk

Office: +922199261201 Ext. 2562

Prof. Dr. Fayaz Hussain

Chairman/Professor

Department of Materials Engineering,

NED University of Engineering & Technology

Website: <https://mmd.neduet.edu.pk/>

Email: fhussain@neduet.edu.pk

Office: +922199261201 Ext. 2361

Prof. Dr. habil, Yogendra Kumar Mishra

Group Head/ Professor

Smart Materials,

Mads Clausen Institute (MCI), Denmark

Website: <https://portal.findresearcher.sdu.dk/en/persons/mishra>

Email: mishra@mci.sdu.dk

Office: +4565507623