

Shafaq Asrar

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Qualification

Degree	Institute	Year of Passing	Status/Division/Grade
PhD (Materials)	NED University of Engg & Tech Karachi	2021	Completed
ME (Materials)	NED University of Engg & Tech Karachi	2013	3.3 CGPA
BE (Materials)	NED University of Engg & Tech Karachi	2010	First Division
HSC	Govt. College for Women Shahrah-e-Liaquat	2006	A grade
SSC	Guardian Public School Karachi	2004	A-one grade

Experience

- **Assistant Professor at Department of Metallurgical Engineering, NED University of Engineering and Technology, Karachi Pakistan. [November 2021 – Present]**
 - Delivering undergraduate lectures
 - Supervisory of final year student Projects
- **Lecturer at Department of Metallurgical Engineering, NED University of Engineering and Technology, Karachi Pakistan. [Feb 2016 - October 2021]**
- **Job Description**
 - Delivering Class lectures
 - Demonstration of Practicals
 - Supervisory of final year student Projects

Research Area

- Hydroxyapatite coating
- Sintering behaviour of Titanium based alloys
- Advanced materials processing technique
- Electrophoretic deposition coatings for biomedical applications
- Coatings for biomedical applications

Publications

- Findings of Grain Coarsening Temperature and Grain Growth of Light Weight Steel Used in Automotive Industry”, Abro, Shahid H. Chandio, Alidad Moria, Hazim. A. Azmat, Ambreen Asrar,

Shafaq”, Polymer Engineering and Chemical Engineering, Materials Engineering, Physics, Chemistry, Mathematics, 2019: Volume 25 July 2019

- Facile Coating of HAP on Ti6Al4V for Osseointegration, “Shafaq Asrar, Muhammad Tufail, Ali Dad Chandio”, Engineering, Technology & Applied Science Research Vol. 11, No. 3, 2021, 7240-7246

Technical skills

- Hardness Testing
- XRD Testing and analysis
- Nano indentation testing and analysis
- XRF analysis (X-ray fluorescence)
- AFM testing and analysis
- Powder Metallurgy and Sintering
- Laser Particle Analyzer
- Fatigue Testing

Teaching Experience at NEDUET

- Metal Forming and Shaping
- Inspection and Testing of materials
- Powder Metallurgy
- Metallurgy of Welding
- Polymer and Composite
- Phase transformation of materials
- Physical metallurgy
- Nanomaterials
- Advanced materials

Achievements / Certifications

- Secured HEC NRPU 2017 grant as Co-Principal investigator (Grant related to the development of dental implant applications)
- Member of organizing committee for ICAMSEE (International conference)
- Certificate in “**Inventory Management and MRP**” – NED University of Engineering & Technology in 2011