

Dr. Ambreen Azmat

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Qualification

Degree	Institute	Year of Passing	Status/Division/Grade
PhD (Materials)	NED University of Engg & Tech Karachi	2022	Completed
ME (Materials)	NED University of Engg & Tech Karachi	2013	3.4 CGPA
BE (Materials)	NED University of Engg & Tech Karachi	2010	First Division
HSC	Govt. Degree Science & commerce College, Karachi Gulshan-e-Iqbal	2006	A grade
SSC	Everest Grammar High School	2004	A grade

Experience

- **Assistant Professor (from July 22 till date)**
- **Lecturer at Department of Metallurgical Engineering, NED University of Engineering and Technology, Karachi Pakistan. [Feb 2016 – Till July 22]**
- **Job Description**
 - Delivering Class lectures
 - Demonstration of Practical's
 - Supervisory of final year student Projects
 - Students Counsellor's
 - OBE (Outcome based education, as per Washington accord) implementation team member

Research Area

- Sintering behaviour of Titanium based alloys
- Advanced materials processing technique
- Surface Treatment of the alloys
- Coatings for biomedical applications
- Polymer materials

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

- Synthesis and Characterization of Ti-Sn alloys for biomedical Applications” **Azmat. A**, Tufail. M, Chandio.A.D, Materials, 2021, December.
- Effect of Niobium on Ti–Sn Alloy for Implant Applications, **Azmat. A**, Tufail. M, Chandio, A.D, Journal of Nanoelectronics and optoelectronics, Volume 16, Number 12, December 2021, pp. 1956-1963(8).
- Comparative Study of TiMn and TiAlV Alloys via the Nanoindentation Technique” Asrar S. Azmat A, IA Channa, Suffyan F, Feroze S, Chandio AD, M. Ali, Abdulaziz, Crystals 2022, 12(11), 1537; <https://doi.org/10.3390/cryst12111537>
- Comparative study of Ti alloys for biomedical applications (Submitted)

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
- Scanning Electron Microscopy
- Universal Tensile Testing
- Computerized Potentiostat

Teaching Experience at NEDUET

- Heat Treatment
- Industrial Quality Control
- Inspection and Testing of materials
- Metallurgy of Welding
- Polymer and Composite
- Non ferrous extractive Metallurgy
- Physical metallurgy
- Advanced materials
- Furnaces and refractories.

Achievements / Certifications

- Member of organizing committee for ICAMSEE (International conference)
- Life time Member Pakistan Engineering Council (PEC)