CURRICULUM VITAE

PERSONAL PROFILE:

Name
 Dr. Muhammad Rizwan

• Father's Name Mukhtar Ahmed

Address
 L-737 Sector 5-A/3 North Karachi, Karachi.

PEC registration number METAL/2628

• Researcher ID https://orcid.org/0000-0003-1127-8801

• Email materialist.riz@gmail.com

• Tel# +92-3351221508

ACADEMIC PROFILE

Education	Year	Board	Status /CGPA/Percentage
PhD (Bioceramic composite)	2019	University of Malaya, Kuala lumpur, Malaysia.	Completed
M.E (MATERIALS ENGINEERING)	June 2013	N.E.D University of Engineering & Technology	3.07
B.E (MATERIALS ENGINEERING)	2010	N.E.D University of Engineering & Technology	79%
INTERMEDIATE (Pre-Engg)	2006	Board of Intermediate Education Karachi	74%
METRIC (Science)	2004	Board of Intermediate Education Karachi	78%

EXPERIENCE:

- > Assistant Professor at Department of Metallurgical Engineering, NED University of Engineering and Technology, Karachi Pakistan. [June 2019- Present]
 - Delivering Undergraduate and Masters lectures
 - Supervision of final year student Projects
- Lecturer at Department of Metallurgical Engineering, NED University of Engineering and Technology, Karachi Pakistan. [April 2011-Present]
- > Job Description
 - Delivering Class lectures
 - Demonstration of Practicals
 - Supervisory of final year student Projects
 - Faculty advisor of Students' society MES
 - Chief coordinator of Departmental Annual Magazine
 - Member of University's Admission Committee
 - Lab in charge of Powder Metallurgy and Materials Deterioration Labs

RESEARCH AREA

- Hydroxyapatite based composite
- Sintering and crystallization behavior of Bioglass[®]
- Advanced materials processing technique
- Plasma electrolytic oxidation coatings for biomedical applications

- Antibacterial coatings
- Physical vapor deposition magnetron sputtering
- Coatings for biomedical applications

Journal Publications

- **Rizwan, M.**, Alias, R., Zaidi, U. Z., Mahmoodian, R., & Hamdi, M. (2018). Surface modification of valve metals using plasma electrolytic oxidation for antibacterial applications: A review. Journal of Biomedical Materials Research Part A, 106(2), 590-605. (**I.F=3.23**)
- **Rizwan, M.**, Hamdi, M., & Basirun, W. J. (2017). Bioglass® 45S5-based composites for bone tissue engineering and functional applications. Journal of Biomedical Materials Research Part A, 105(11), 3197-3223. (**I.F=3.07**)
- **Rizwan, M.**, Hamdi, M., Basirun, W. J., Kondoh, K., & Umeda, J. (2018). Low pressure spark plasma sintered hydroxyapatite and Bioglass® composite scaffolds for bone tissue repair. Ceramics International. (**I.F=3.05**)
- Alias, R., Mahmoodian, R., **Rizwan, M.**, & Abd Shukor, M. H. (2019). Study the effect of thermal annealing on adhesion strength of Silver-Tantalum Oxide thin film deposited by reactive magnetron sputtering. *Journal of Adhesion Science and Technology*, 1-18.**I.F=1.04**)

SUBJECTS TAUGHT

- Refractories in Metallurgical industry
- Foundry Principles and Methods
- Metal Forming and Shaping

- Corrosion Protection and Prevention
- Powder Metallurgy

ACHIEVEMENTS

- Member Pakistan Engineering Council (PEC)
- Attended International Conference On Energy And Sustainibility.
- Attended an International Workshop On Fundamentals Of Intellactual Property.
- Coordinated for first ever Departmental Annual Magazine with the name METCRUX 13
- Organized a Seminar on Industrial Quality Control
- Organized a Seminar on **Steel Giants**
- Organized a Seminar on **Engineers as Future Leaders**
- Attended a seminar on Occupational Safety And Environment.
- Attended a seminar on Communication Skills.
- Member of **N.E.D Materials Society (NMS**).
- Attended a **Seminar On Effective Teaching Practice.**
- Attended a seminar on Advanced Structural Materials.

REFERENCES

• Prof. Dr. Mohd Hamdi Bin Abd Shukor

Department of Mechanical Engineering, Faculty of Engineering,

University of Malaya, 50603 Kuala Lumpur, MALAYSIA.

hamdi@um.edu.my

H/P # +60102260871

• Prof. Dr. Wan Jeffrey Basirun

Department of Chemistry, Faculty of Science,

University of Malaya, 50603 Kuala Lumpur, MALAYSIA.

jeff@um.edu.my

H/P # +60129354200