Rauf Ahmad

Mechanical Engineer

Department of Mechanical Engineering, FE&T, BZU, Multan (60800), Pakistan

+923457227258

raufahmad@bzu.edu.pk

WORK EXPERIENCE

10/06/2015–Present **Lecturer**

Bahaudin Zakariya University (BZU), Multan (Pakistan)

Currently I am working as a lecturer in the Mechanical Engineering Department. I am teaching "Heat and Mass Transfer","Renewable Energy Resources", ''Engineering Dynamics'','Engineering Statics'', "Applied Thermodynamics", and "Fluid Mechanics'' subjects to the mechanical engineering students.

10/08/2013–10/06/2015 **Lecturer**

Institute of Southern Punjab (ISP), Multan (Pakistan)

Lecturer at Institute of Southern Punjab, Multan, I taught "Mechanics of Machines and Strength of Materials" subject to B. Tech Mechanical students

06/07/2009–06/08/2009 **Internee**

Mangla Power Station, Azad Kashmir (Pakistan)

- One month internship at Mangla Power Station, Azad Kashmir.
- Internship at UET, Lahore.

EDUCATION

15/07/2017–15/10/2019 **M.Sc. Thermal Power Engineering**

University of Engineering & Technology, Lahore (Pakistan)

CGPA obtained from 30 Credits is (3.85/4).
-Subjects which I have studied during my Master's program are Advanced Thermodynamics, Advanced Heat Transfer, Research Methodology, Numerical Methods, Mechanical Vibrations, Turbo-machinery, Sustainable Energy Systems & Experimental Methods.
-Thesis title "Design & Performance Analysis of 500 KW Solar Power Electric Vehicle Charging Station

10/09/2007–06/09/2011 **B.Sc. Mechanical Engineering**

Bahauddin Zakariya University, Multan (Pakistan)

CGPA obtained during bachelor degree is (3.26/4)
-40 technical subjects focused on Mechanical engineering
-Final year project title "Design & Fabrication of Shell and tube heat exchanger

PERSONAL SKILLS

Languages Urdu

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B1	B1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

-Good communication skills because of work experience of more than 7 years.
-Good reading and writing skills because of using English as a prime medium of communication and instruction.

Managerial skills

-Director Students Affairs (Mechanical Engineering Department)
Working as Director Students Affairs of Mechanical Engineering Department, FE&T, BZU Multan since January 2018.

Job-related skills

Currently I have multi assignments at my job including.
-Teaching
-Research
-Students Affairs

Digital skills

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Basic user	Independent user

Digital skills - Self-assessment grid

Good knowledge of MS Office
-Good knowledge of MATLAB / Simulink
-Good knowledge of AutoCAD
-Good knowledge of SolidWorks
-Good knowledge of ANSYS
-Good knowledge of REFPROP
-Good knowledge of Cycle-Tempo

ADDITIONAL INFORMATION

Publications

Gul M, Zulkifli NW, Kalam MA, Masjuki HH, Mujtaba MA, Yousuf S, Bashir MN, Ahmed W, Yusoff MN, Noor S, Ahmad R. RSM and Artificial Neural Networking based production optimization of sustainable Cotton bio-lubricant and evaluation of its lubricity & tribological properties. Energy Reports. 2021 Nov 1;7:830-9.

Gul M, Shah AN, Aziz U, Husnain N, Mujtaba MA, Kousar T, Ahmad R, Hanif MF. Grey-Taguchi and ANN based optimization of a better performing low-emission diesel engine fueled with biodiesel. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. 2022 Mar 31;44(1):1019-32.

Husnain N, Siddiqui FA, Ahmad R, Bukhari SM, Nasir I, Shafi MF, Hanif MA. Experimental and computational study of the most influential parameters of a lab-scale forced draft cooling tower by considering different number of packing ribs. Technical Journal. 2022 Dec 30;27(04):20-7.

Bukhari SM, Naveed A, Husnain N, Siddiqui FA, Zaman MF, Ahmad A, Ahmad R, Wajahat N. Computational study of mechanical behavior of Ti6Al4V-coated and aluminium-coated 316L stainless steel alloy under linear and cyclic loading. Technical Journal. 2023 Sep 29;28(03):12-24.

Bukhari SM, Husnain N, Siddiqui FA, Anwar MT, Khosa AA, Imran M, Qureshi TH, Ahmad R. Effect of laser surface remelting on Microstructure, mechanical properties and tribological properties of metals and alloys: A review. Optics & Laser Technology. 2023 Oct 1;165:109588.

Bukhari SM, Gardezi SA, Husnain N, Ahmad R, Zaman MF, Qurashi R, Baloch N. Modelling and simulation of cathodic protection using magnesium sacrificial anode for steel Bent-Y-Pipe in seawater environment.

Abdullah M, Bukhari SM, Husnain N, Zaman MF, Tariq A, Siddiqui FA, Ahmad R, Nasir MD. Design, analytical and computational analysis, and development of a high-precision CNC spindle for a vertical machining center. Engineering Research Express. 2024 Sep 17;6(3):035568.

Hanif MF, Ahmad R, Farooq AB, Liu X, Ahmad A, Iqbal S, Mi J. The solar AI nexus: reinforcement learning shaping the future of energy management. Wiley Interdisciplinary Reviews: Energy and Environment. 2025 Sep;14(3):e70012.

Khan MW, Ahmad R, Bukhari SM, Sultan M, Husnain N, Anwar MT, Bin Nooman U, Raza H, Latif A, Ahmad S, Bukhari KH. Influence of Vibration-Assisted Dynamic Solidification on Microstructure and Mechanical Properties of Permanent Mold Cast Aluminum Alloy 2024 with Conformal Cooling. Journal of Manufacturing and Materials Processing. 2025 Dec 18;9(12):416.

Sarfraz S, Husnain N, Asif T, Ashraf GA, Sultan T, Sahar MS, Imran M, Zaheer MA, Ahmad R. Investigation of tool wear behavior in CFRP drilling by using different tool materials. Engineering Research Express. 2024 Dec 1;6(4):045428.

Field of Interest Materials, FEA, Mechanical Properties

Memberships Pakistan Engineering Council
Registered Engineer of Pakistan Engineering Council under registration no. MECH/27760