



Asad Riaz

Lecturer

Department of Energy Technology

asadriaz@uotnowshera.edu.pk

EDUCATION

- **M.S. Energy Systems Engineering**, July 2017
National University of Sciences and Technology, Islamabad, Pakistan
- **B.S. Mechanical Engineering**, Aug 2014
University of Engineering and Technology, Peshawar, Pakistan

AWARDS AND ACHIEVEMENTS

- **Partial BSc Scholarship**, MED, UET Peshawar, 2010 - 2014
- **Full MS Scholarship**, USPCAS-E, NUST, 2014 - 2016
- **Research grant for BSc Final Year Project**, Pakistan Science Foundation

TEACHING INTERESTS

Thermodynamics, Power Plants, Heat and Mass Transfer, Fuel Technology

RESEARCH INTERESTS

Solar Thermal Power Generation, Renewable Energy Systems, Energy Efficiency and Conversion

EXPERIENCE

- **Lecturer, Department of Energy Technology**, Aug 2022 – Present
University of Technology Nowshera, KPK, Pakistan
- **Scientific Officer, Ministry of Defense**, Apr 2016 – Aug 2022
Ordnance Services Directorate, LS Branch GHQ, Rawalpindi, Pakistan
- **Research Assistant, U.S.-Pakistan Centre for Advanced Studies in Energy**, 2014 -2015
National University of Sciences and Technology, Islamabad, Pakistan

SOFTWARE SKILLS

- MS Project
- Labview
- RETScreen
- TRNSYS
- ANSYS
- Matlab
- Auto-Cad
- Pro-E

RESEARCH PROJETS

- Techno-economic Analysis of Parabolic Trough Solar Thermal Power Plant for Climate Conditions of Pakistan
- Design & Optimization of Organic Rankine Cycle Solar-Thermal Power plant

RESEARCH PUBLICATIONS

1. **Asad Riaz**, Muhammad Zubair, “Feasibility and Potential of Parabolic Trough Solar Thermal Power Plants in Pakistan” 3rd conference on “Sustainability in process industry 2016” University of Engineering and Technology Peshawar.
 2. **Asad Riaz**, Muhammad Zubair, Adeel Waqas and Sufyan Naeem, “Techno-economic Analysis of Parabolic Trough Solar Thermal Power Plant under Pakistan Climate” Journal of Renewable Energy. ISSN 1556-7036. Vol. 38, No. 22, pp 3360–3366, (2016). <http://dx.doi.org/10.1080/1567036.2016.1146807>
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