



AFTAB ANJUM

Address: A-231, Shabad daulatpur, Delhi-110042

Mobile: +91-9971193915

E-Mail: aftabanjum915@gmail.com

Objective : Seeking a challenging & growthful career in teaching & research where my skill set and synergy can be put to a maximum use mutually for the institution and myself.

Experience : *Since Aug. 2015 – till date*

Working as a guest faculty at department of Mechanical Engg. Delhi Technological University (Formerly Delhi College of Engineering), Delhi.

Pursuing PhD as a Research scholar on a project “waste heat recovery based on tri-generation system” at Delhi Technological University (Formerly Delhi College of Engineering), Delhi.

Working as a freelancer faculty in many coaching institute for GATE, ESE and JE exams.

I have been taking schedule of Fluid Mechanics, Heat Transfer and Thermodynamics in various Coaching preparing for Gate, ESE and SSC JE exams.

Worked as a Lecturer at Government Polytechnic Samastipur (Govt. of Bihar) Recruited by Bihar public service commission (BPSC).

Academic Qualifications:

- **Master of Technolgy (Mechanical Engineering Department)** from *Delhi Technological University, Delhi with 8.3 CGPA in 2015.*
- **Bachelor of Technology (Mechanical Engineering)** form *Jamia Millia Islamia (JMI), Delhi with 7.90 CPI in 2012.*
- **XIIth** from *Jamia Sr. Secondary School, Delhi with 74.2% in 2007.*
- **Xth** from *Jamia Sr. Secondary School, Delhi with 71.8% in 2005.*

Projects:

- **Waste heat recovery from two stage vapour compression refrigeration system (VCRS) using an auxiliary condenser (Canopus heat exchanger).**

Description: Exergy and energy analysis is performed for a two-stage VCRS. The coefficient of performance (COP) of the system is enhanced and considerable amount of waste heat is recovered by adding a canopus heat exchanger.

- **Solar assisted vapour compression refrigeration system.**

Description: Reducing the compressor load by incorporating a flat-plate collector which provides a part of the temperature rise of the working fluid thereby reducing the electricity consumption of the compressor considerably.

- **Reliability Prediction of Centrifugal pump** as final year project during B.Tech.

Description: Performed reliability prediction of the various components of the centrifugal pump using Weibull distribution, normal distribution and exponential distribution.

Lead team member in the Student initiative project to make a mechanical design of Centrifugal pump.

Publications:

- Aftab Anjum, Mohit Gupt, Aadish Jain: “Economic Analysis of the Nisarguna Based Bio-Methanation Plant”. Published in *International Journal of Advance Research and Innovation*, Volume 3, Issue 4 (2015) 611-614/ ISSN 2347-3258.
- Aftab Anjum, Mohit Gupt, Aadish Jain: “Understanding Various Technologies with Perspective of Energy and Environmental Audit: Review”. Published in *Journal of Fundamentals of Renewable Energy and Applications*, Ref.: Ms. No. ENVIRONSCI-16-836R1.
- Aftab Anjum, Mohit Gupt, R.S.Mishra, N.A. Ansari: “Thermodynamic Analysis of a Two Stage Vapour Compression Refrigeration System Utilizing the Waste Heat of the Intercooler for Water Heating” Published in *Journal of Fundamentals of Renewable Energy and Applications*, Ref.: Ms. No. ISSN: 2090-4541.
- Aftab Anjum, R S Mishra “Thermodynamic Analysis of Gas Turbine Tri-Generation System for Combined Production of Power Heat and Refrigeration” Published in International Conference of Advance Research and Innovation (ICARI-2017) Jan-29th 2017, ISBN: 978-93-5258-841-1.
- Aftab Anjum, R S Mishra, Samsher “Thermodynamic analysis of combined power, heating and cooling in a tri-generation system-A Review” Published in International Journal of Research in Engineering and Innovation (IJREI) Vol-2, Issue-2 (2018), 209-221.
- Aftab Anjum, Md. G. Mustafa, Md. J. Akhtar, R.S. Mishra “ Experimental Analysis of the Effect of Shading and Variation of Tilt angle on output Power of PV Module” Published in International Journal of advanced production and industrial engineering, IJAPIE-2016-10-402, Vol 1(4), 09-13.

Internship:

- **Summer internship** at National Institute of Solar Energy, Ministry of New & Renewable Energy, Government of India under the guidance of Shri N.B Raju (Scientist “E”) and done training on “Study of Solar Photovoltaic and Solar Thermal Technologies Installed at National Institute of Solar Energy”.
Duration: Six Weeks (From 09.06.2014 to 25.07.2014)
- **Summer training** at NTPC Dadri (U.P) in the guidance of Sh.G D Sharma and learned the mechanical aspects in Thermal Power plant working, and thoroughly studied the functioning of Coal handling department(CHD),Boiler maintenance department(BMD),Turbine maintenance department (TMD), and Cooling towers.
Duration: Six Weeks (From 10.05.2011 to 19.06.2011)

Areas of interest:

- Thermal Engineering (Heat transfer, Fluid Mechanics, Thermodynamics, Refrigeration & Air-conditioning).

Achievements and roles:

- Gate Qualified in the year 2013 with percentile 98.01.
- Member of SESI(Solar Energy Society Of India).
- Participated in “Delhi Youth Summit on Climate (DYSoC-2013)” from 24-25 August held at Miranda House, Delhi and as a volunteer in Common Wealth Game 2010 held in Delhi.
- Participated in ISTE Delhi Section Convention on “Technological Universities and Institutions in New Knowledge Age: Future Perspectives and Action Plan” from September 5-6, 2013 held at DTU.
- Got second rank from my school in science cyber Olympiad test held in 2006.

- Participated in interactive TV shows like Meri Baat (year 2006) telecasted on Doordarshan, Mobiles & More (year 2009) telecasted on ZEE Business.
- Co-coordinator of MECH-KINGS society working for Mechanical Department of our college Organized Workshops and held Seminars on Personality Development Skills in College.
- Member of SAE-INDIA (Society of automotive engineers).
- Organized the event “The Green Mantras @ DTU: The Next Solar Destination for University-Industry Interaction” held on 26th August, 2013 at DTU in the guidance of Dr. J.P Kesari, DTU.
- Organized one week TEQIP-II sponsored Faculty Development Programme on “Renewable Energy and Alternative Fuels(REAF-2014)” from June 16,2014- June 20,2014 held at DTU in the guidance of Dr. J.P Kesari, DTU.
- Co-ordinated one week TEQIP-II sponsored Faculty Development Programme on ”Precision Manufacturing: Technology for Better Tomorrow (TMTBT-2014)” from July 14,2014- July 18,2014 held at DTU in the guidance of Dr. R.S. Walia, Associate Professor, DTU.
- Attended TEQTP-II Sponsored Faculty Development Programme on “Advances in Microelectronics and plasma diagnostics” held at DTU from August 29-September 02, 2016.
- Workshop on “E-Resources: A Gateway for Research” held at DTU from 05-09 Sep., 2016.
- Chief organizer in the International Conference on “Recent Advances in Mechanical Engineering (RAME-2016)” held at DTU on 14-15 October, 2016.
- Organized and Participated “International Conference on Advanced Production and Industrial Engineering (ICAPIE-2016)” held at DTU on 09-10 October, 2016.

Exposure to Computers:

- CAD, SOLIDWORKS, Engineering Equation Solver (EES)
- Working Knowledge of Microsoft Word, Microsoft Excel, Microsoft Power Point and other general tools

Personal Details:

Date of Birth: December 10th 1989
Languages known: Hindi, English and Urdu
Father’s Name: Dr. Abdul Bari
Mother’s Name: Mrs. Badrun Nishan
Nationality: Indian
Marital Status: Single

Declaration:

I hereby declare that the above information furnished is true to the best of my knowledge and belief.

Aftab Anjum

Place: New Delhi
Date: