

CURRICULUM VITAE



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CAREER OBJECTIVE:

To Work in a Challenging Environment That Provides Generous Opportunities for Learning in the Field of Mechanical Engineering/Thermal Engineering.

EDUCATIONAL BACKGROUND:

EXAMINATION	UNIVERSITY /INSTITUTE	Year of Passing	Div./Percentage
Ph.D (Mech. Engg)	J.M.I New Delhi	2007	Awarded
M.Tech (Thermal Engg.)	Delhi College Of Engg., Delhi University	2000	1 st , 62.0
B.E. (Mech. Engg.)	J.M.I New Delhi-25	1995	1 st , 89.98 FCPI

Dissertation Topic (M.Tech): Performance Analysis and Optimization of Some Irreversible Heat Pump Cycles with Finite-time Thermodynamics.

Ph. D.Topic: Investigations on Irreversibilities due to Heat Transfer and Fluid Flow in Thermal Power Cycles.

Teaching Experience: Approx. 16.5years.

Approx. 09 years working as Assistant Professor in the Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi from [from July 16, 2002 - May 31· 2009 and From Nov 15, 2017- Nov 12 2019].

05 years working as a Professor in the Department of Mechanical Engineering, Al-Falah University, Dhauj, Faridabad, Haryana. [From July 04, 2011 - July 21· 2016].

At Present Working As Associate Professor In The Department Of Mechanical Engineering (JMI) From Nov. 13, 2019 - Till Date.

Consultancy Experience:

1. Working as a consultant from last two years at Innovative Consulting Engineers.
2. Working as a consultant from last two years at Confide Services.

Laboratories/Workshop Experience: 15yrs

Worked as a Technical Assistant in the Department of Mechanical Engineering, JMI, New Delhi, From Jan. 1990 to July 2002, June 2009 to July 2011 and July 2016 Nov. 2017.

Undergraduate courses Taught: Thermodynamics, Internal Combustion Engines, Engineering Mechanics, Engineering Graphics, Fluid Mechanics, Power Plant Engineering, Workshop Technology etc.

Postgraduate courses taught: Advanced Thermodynamics, Internal Combustion Engines.

Project Supervision Experience: Supervised 20 Projects at B. Tech and B.E level & 25 Projects at M.Tech level.

Ph.D. Supervision: Successfully supervised Two Ph.D. Thesis (awarded) and Three (03) Ph.D. students are currently enrolled.

Chief Coordinator: The grant section & release of amount Rs.1075000/- from All India Council for Technical Education (AICTE) under modernization and removal of obsolescence scheme (MODROBS) for the financial year 2011-12 to Al-Falah School of Engineering & Technology Faridabad.

Lecture Delivered:

1. National Power Training Institute (NPTI) Sector-33 Faridabad. (HR)
2. Al-Falah University, Faridabad, Haryana.

Book Publication:

Author	Title	Publication
Tasmeem Ahmad Khan	Mechanics ISBN: 978-81-7555-659-1	University Publication, Daryagunj, New Delhi-02.

International and National Publications:

1. Ahmad, Shadab, **Tasmeem Ahmad Khan**. (2021) "Determination of Useful Energy in Solar Evacuated Tube Collectors in Different Months of Year in Delhi." : 6-14.
2. Tahir Ali Khan, **Tasmeem Ahmad Khan**, Ashok Kumar Yadav & M. Emran Khan (2020) "Microalgae:A Promising Third Generation Renewable Energy Source For I.C Engines" Journal Of Automobile Engineering and Applications. Vol-07, Issue (01), pp. 18-23, ISSN No. 2455-3360
3. Ashok Kumar Yadav, Tahir Ali Khan, **Tasmeem Ahmad Khan** & Sanjeev Kumar Yadav (2019) "Methyl ester of gmelinaarborea oil as a substitute for petroleum diesel: an

experimental study on its performance and emissions in a diesel engine” Energy Resources Part A: Recovery, utilization, and Environmental effects. pp. 01-08, ISSN No. 1556-7036.

4. **Tasmeem Ahmad Khan & G. Murli Kannan (2017)** “Study of Controlled Atmosphere Cold Storage” Inverties Journal of Renewable Energy. Vol.- 07, Issue (01), pp. 45-55, ISSN No. 2454-7611.
5. Azhar Ahmad Khan & **Tasmeem Ahmad Khan (2017)**“ Energy Conservation Using VFDs In HVAC Industry” Inverties Journal of Renewable Energy. Vol.- 07, Issue (04), pp. 173-180, ISSN No. 2454-7611.
6. Abdur Rahim & **Tasmeem Ahmad Khan (2017)**“ Effect Of Quarl Angle Of Liner Air-Casing On Annulus Flow Of Gas Turbine Combustor” Inverties Journal of Renewable Energy. Vol.- 07, Issue (04), pp. 224-228, ISSN No. 2454-7611.
7. Ashok Kumar,Rajesh Kumar Singh & **Tasmeem Ahmad Khan (2016)** “Development of Framework for Analyzing the Barriers in Total Productive Maintenance” International Journal of Advance Research and Innovation.Vol.-03, Issue (04), pp.82-88 ISSN No.- 2347-3258.
8. Rajesh Kumar Singh, Ayush Gupta, Ashok Kumar&**Tasmeem Ahmad Khan (2016)** “ Ranking of Barriers For Effective Maintenance By Using TOPSIS Approach” International Journal Of EMERALD INSIGHT. Vol. 22 No.1 pp.18-34. ISSN : 1355-2511.
9. Satya Prakash Gupta, **Tasmeem Ahmad Khan**& Chandra Shekhar Singh (2016) “Analysis of Karanja Seed Cake 9 Pongamia Pinnata) With the Focus on Application of Pyrolysis Oil as Fuel” National Journal of Global Sci-Tech. Vol-8 (2), pp.67-76, ISSN : 0975-9638.
10. **Tasmeem Ahmad Khan (2015)** “Optimization of Solar Assisted Rankine Engine Using Lagrangian Multiplier Method” ISST Journal of Mechanical Engineering. Vol. 6, No. 1, pp. 53-56. ISSN : 0976-7371.
11. Shahzad Ahmad, **Tasmeem Ahmad Khan** & Atishey Mittal (2015) “Green Manufacturing Help To Control Global Warming With Sustainable Development in an Indian Steel Industry” ISST Journal of Mechanical Engineering. Vol. 6, No. 1, pp. 03-07, ISSN : 0976-7371.
12. Md. Zarrar Alam, **Tasmeem Ahmad Khan**,Mohd. Parvez& Md. Nazeem Khan (2015) “Analysis of Various Parameters of Fluid on Circular Cylinder Using Wind Tunnel” ISST Journal of Mechanical Engineering. Vol. 6, No. 1, pp. 49-52, ISSN : 0976-7371.
13. Shahzad Ahmad and **Tasmeem Ahmad Khan (2015)** “Green Manufacturing Helps to Control Global Warming A Critical Review” International Journal of Engineering Sciences and Research Technology (IJESRT), Vol. 4(2), pp. 444-449, ISSN : 2277-9655.
14. Deepak Sharma & **Tasmeem Ahmad Khan (2015)**“ Exergy Analysis of Boiler In Thermal Power Plant” ISST Journal of Mechanical Engineering. Vol. 6, No. 02, pp. 39-46, ISSN : 0976-7371.
15. Kamlesh Kumari & **Tasmeem Ahmad Khan (2015)**“ Second Law Based Thermodynamic Performance Analysis of Steam Power Cycle” ISST Journal of Mechanical Engineering. Vol. 6, No. 02, pp. 47-49, ISSN : 0976-7371.

16. Irfan Ali, Mohd. Parvez & **Tasmeem Ahmad Khan (2015)** “Performance Analysis and Optimization of Some Irreversible Heat Pump Cycle with Finite Time Thermodynamics” *ISST Journal of Mechanical Engineering*. Vol. 6, No. 02, pp. 27-34, ISSN : 0976-7371.
17. MohdParvez&**Tasmeem Ahmad Khan (2013)** “First and Second law Analysis of a Syngas Fuelled Thermodynamic Cycle for Sustainable Power Generation” *Global Sci-Tech*.Vol-5, (4), pp. 203-217, ISSN : 0975-9638.
18. Shyam Lal Sharma, **Tasmeem Ahmad Khan**, Mohd. Parvez & Kamlesh Kumari(**2013**) “Computer Aided Analysis and Design of Hoisting Mechanism of an EOT Crane”. *International Journal of Mechanical Engineering and Applications*. Vol. 2, Issue 3,pp. 89-95, ISSN : 2278-0149.
19. Mohd Abbas, Sajid Husain, Mohd. Parvez & **Tasmeem Ahmad Khan(2013)** “Study the Effect of Austempering Temperature on the Machinability of Austempered Ductile Iron by Milling Process”. *International Journal of Engineering Research & Technology*. Vol. 2, Issue 6, pp. 15641586.
20. Saleem Ahmad & **Tasmeem Ahmad Khan(2013)**“Comparison of Forged Steel and Cast Iron Crankshaft Performance for Testing Dynamic Load for Reducing Cost & Weight by Using FEA Technology” *Global Sci-Tech*.Vol-5, (4), pp. 245-250, ISSN : 0975-9638.
21. Saleem Ahmad & **Tasmeem Ahmad Khan(2013)** “CAE Analysis of Crankshaft for Testing Dynamic Loads for Reducing Cost & Weight”. *International Journal of Engineering Research and Application*, Vol.-3, Issue (04), pp. 125, ISSN : 2248-9622.
22. ZainulAbdin Shekh & **Tasmeem Ahmad Khan(2013)** “Analysis of Surface Roughness for Turning of Aluminium (6061) Using Regression Analysis”. *International Journal of Engineering Research & Technology*. vol. 2, (1), pp. 22-25, ISSN : 2277-1581.
23. Virender Singh &**Tasmeem Ahmad Khan(2013)** “Comparative Performance Analysis Of Insert Geometry For Turning Operation On CNG Turning Centre”. *International Journal of Scientific Engineering & Technology*. Vol. 02, (7), pp. 626-630, ISSN 2277-1581.
24. Abhi Chaudhary, Tasmeem Ahmad Khan & Amit Raj Varshney (**2013**)“ Value Addition To Senescent Machine Tools Through Retrofitting”. *International Journal of Scientific Engineering & Technology*. Vol. 02, (7), pp. 642-646, ISSN 2277-1581.
25. Raziuddin A, **Tasmeem Ahmad Khan &Vedika A (2013)** “Mass Energy Balance in Grate Cooler of Cement Plant” *International Journal of Scientific Engineering & Technology*. Vol. 2, (7), pp.631-637, ISSN: 2277-1581.
26. Pawan Mishra &**Tasmeem Ahmad Khan(2012)** “Investigations on Thermodynamic Behavior of CO2 Laser Cutting Process”. *International Journal of Engineering Research & Technology*. Vol. 1, (3), pp. 1-13, ISSN : 2278-0181.
27. Devender Kumar Gupta, Pawan Mishra & **Tasmeem Ahmad Khan(2012)** “Study the Importance of Insulated Combustion Chamber With & Without Catalyst Inside the Combustion Chamber on the Performance of Four Stroke CI Engine”. *International Journal of Engineering Research & Technology*. Vol.-1, (6), pp. 1-5, ISSN : 2278-0181.

28. Manoj K Solanki, PawanMishra ,Sachin Meheshwar & **Tasmeem Ahmad Khan(2012)** “Current India Perspective For Unconventional Energy Resources and Its Exploration”. International Journal of Engineering Research & Technology. Vol.-1, (6), pp. 1-10, ISSN : 2278-0181.
29. Vijya Vani Vemula & **Tasmeem Ahmad Khan(2012)** “Study of Grindability of Ti-6Al-4V Using Solid Lubricants”. International Journal of Engineering Technology. Vol. 3, (1), pp. 109-114, ISSN : 0975-8364.
30. **Tasmeem Ahmad Khan**& Abdul Khaliq (**2008**) “Second-Law Based Thermodynamic Performance Assessment of Coal Fired Electricity Generation Plant.” Journal of the Institution of Engineers (India). Vol.-8, (9), pp. 29-35, ISSN : 0020-3408.
31. Abdul Khaliq & **Tasmeem Ahmad Khan(2007)** “Energetic and Exergetic Efficiency Analysis of an Indirect Fired Air-Turbine Combined Heat and Power System”. International Journal of Exergy. Vol.-4, No. 1, pp. 38-53, ISSN : 1742-829712.

Papers Present in Conferences:

1. Mohammad Pervez & **Tasmeem Ahmad Khan (2016)**“ Thermodynamics Investigation of a Biomass Fuelled Gasification for Combine Production of Power and Refrigeration” ICEBU, JMI New Delhi. pp. 609-621.
2. MohdParvez & **Tasmeem Ahmad Khan(2013)** “Parametric Simulation of Gas Turbine Combined Cycle Integrated With Biomass Gasifier” STME, Delhi Technological University, Delhi, pp. 10731079.
3. Mohd. Parvez & **Tasmeem Ahmad Khan(2013)**“Gasification of Biomass Waste For Electricity Production-An Overview”. Biodiversity & Climate Change, Report, BHCET, Faridabad, Hrayana.
4. Shyam Lal Sharma & **Tasmeem Ahmad Khan (2013)** “Lean Manufacturing For Manufacturing of auto Components”. NCAFCA, ManavRachna, pp.14-20.
5. **Tasmeem Ahmad Khan** & Suhaib Hasan (**2013**) “Second Law Analysis of an Existing Method for Optimization of Irreversible Thermal Insulation System”. NCAME, FBD, pp. 51-54.
6. Shyam Lal Sharma &**Tasmeem Ahmad Khan (2013)** “ Ecological Effects of Biodiversity” National Conference on Causes and Cured of Biodiversity & Climate Change. BHCET, Faridabad. pp. 14-21.
7. **Tasmeem Ahmad Khan**, Abdul Khaliq, and Shamama Ahamd (**2006**) “Optimization of Steam Power Plant Using Finite Time Thermodynamics”. AIME-2006, Jamia Millia Islamia, pp.683- 690.
8. Abdul Khaliq, Adil SMH&**Tasmeem Ahmad Khan (2004)** “Prospective Utilization of Porous

Medium Combustion Technology for Pollutant Emission and High-Energy Efficiency Systems”. International Conference on Energy and Environment-(SSD), New Delhi.

9. Z. Mallick & **Tasmeem Ahmad Khan (2003)** “Ergonomic Consideration in Design of Instrumentation and Control System: An Overview” National Conference on Recent Trends in Power Management, JMI New Delhi. pp. 252-253.
10. Abdul Khaliq, S C Kaushik, **Tasmeem Ahmad Khan**, Abdul Mubeen & M I Qureishi (2002) “Investigations of Irreversibilities Due to Heat Transfer and Fluid Flow in a Duct”. International Symposium on Recent Trends in Heat and Mass Transfer, IIT Guwahati. IITG/HMTS/PA/58.
11. Abdul Khaliq, Abdul Mubeen & **Tasmeem Ahmad Khan (2001)** “Performance Analysis and Optimization of an Endoreversible Stirling Heat Engine with Refrigeration.” National Conference on Thermal Power Plant Operation & Maintenance Strategies. MACT, Bhopal, pp. 146-153.

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