

CURRICULUM VITAE

Dr. MOHAMMAD NADEEM KHAN

B.Sc Engg, M. E (Thermal), Ph.D.

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Presently I am working as Assistant Professor in Department of Mechanical Engineering, Majmaah University, Kingdom of Saudi Arabia from august 2013 to till date.

TECHNICAL QULIFICATIONS

Degree	Specialization	University	Date of Award	Division
Ph.D	Thermal	Jamia Millia Islamia, New Delhi (INDIA)	September 2012	NA
M.E.	Thermal	Delhi College of engineering, New Delhi (INDIA)	February 2008	First
B.Sc Engineering	Mechanical	Aligarh Muslim University, Aligarh (INDIA)	September 1998	First

Ph.D. Thesis Title	: Analytical and Experimental Studies of Fluid Flow and Heat Transfer in Microchannels
M.E. Thesis Title	: Optimizing the Power Output of Combined Cycle Power Plant
B.Sc Engineering Project Title	: Design and Fabrication of water Tube Heat Exchanger

WORKING EXPERIENCE

Category	Designation	Institute	Period (Months)
Post-Graduation work experience	Lecturer	Azad Institute of Technology, Lucknow	19
	Lecturer	RKGIT, Ghaziabad	35
Post-M.E. work experience	Asst. Prof.	Krishna Institute of Technology, Ghaziabad	33
	Assoc. Prof.	Krishna Institute of Technology, Ghaziabad	12
Post Ph.D. work experience	Asst. Prof.	Majmaah University, KSA	Aug. 2013 to till date

PUBLICATION DETAILS

1. **M.N. Khan** and I. Tlili, "New approach for enhancing the performance of gas turbine cycle: A comparative study", Results in Engineering (*Elsevier*) 2 (2019).
2. **M. N. Khan**, I. Tlili, W. A. Khan, Forced Convection of Nanofluid Flow Across Horizontal Elliptical Cylinder with Constant Heat Flux Boundary Condition, *Journal of Nanofluids* Vol. 8, No. 2, 2019, pp. 386-393.
3. Ibrahim M Alarifi, R Alharbi Abdulaziz, **M.N.Khan**, S Khan Waseem, Ramazan Asmatulu, "Water treatment using electrospun PVC/PVP nanofibers as filter medium" *International Journal of Material Science and Research*, 2018. pp. 2638-1559.

4. **M.N. Khan** and I. Tlili, "Innovative thermodynamic parametric investigation of gas and steam bottoming cycles with heat exchanger and heat recovery steam generator: Energy and exergy analysis", *Energy Reports (Elsevier)* 4 (2018) 497–506.
5. **M.N. Khan** and I. Tlili, "Performance enhancement of a combined cycle using heat exchanger bypass control: A thermodynamic investigation", *Journal of Cleaner Production (Elsevier)* 192 (2018) 443-452.
6. **M.N. Khan** and I. Tlili, "New advancement of high performance for a combined cycle power plant: Thermodynamic analysis", *Case Studies in Thermal Engineering (Elsevier)* 12 (2018) 166–175.
7. **M. N. Khan**, I. Tlili, W. A. Khan, Thermodynamic Optimization of New Combined Gas/Steam Power Cycles with HRSG and Heat Exchanger, *Arabian Journal for Science and Engineering (Springer)*, 42(11), 4547-4558, 2017.
8. A.M. Alklaibi, **M.N. Khan**, W.A. Khan, "Thermodynamic analysis of gas turbine with air bottoming cycle", *Energy (Elsevier)* 107 (2016) 603-611.
9. **M.N.Khan**, Utkarsh Gupta, Shubhansh Sinha, Shubhendu Prakash Singh, Sandeep Pathak "Parametric study of the performance of heat pipe – A Review" *International journal of mechanical engineering and technology (IJMET)*, volume 4, issue 1, January- February (2013), pp. 173-184.
10. **M. N. Khan**, "Effects of Specific Heat Ratio & Cut-off Ratio on the Performance of an Irreversible Dual Cycle" *Trends in Mechanical Engineering & Technology*, Volume 2, Issue 1, April 2012.
11. K.P.Tyagi, **M.N.Khan**, "Variation of Pinch Point, Stack Temperature on the Efficiency of Combined Cycle Gas-Steam Power Plant" *International Journal of Theoretical and Applied Mechanics*. Volume 7, Number 1 pp. 1-8, 2012.
12. **M. N. Khan**, Mohd Islam, M.M.Hasan, "Experimental Approach to study Friction Factor and Temperature Profiles of fluid flow in circular microchannels" *Journal of Mechanical Engineering Research*, Vol. 3(06), pp.209-217, June 2011.
13. **M. N. Khan**, Mohd Islam, M.M.Hasan, "Experimental Investigation of Fluid Flow and Heat Transfer in Circular Microchannels" *International Review of Mechanical Engineering*, Vol.5, No. 6, September 2011, pp. 1144-1151.
14. **M. N. Khan**, "Effect of Compression Ratio, Peak Temperature of the cycle and Specific heat of working fluid on the Performance of Diesel Cycle." *International Journal of Applied Mechanics and Engineering*, Vol. 16, Number 1, 271-276, 2011.
15. **M. N. Khan**, Mohd Islam, M.M.Hasan, "Alternative Approach for predicting Average Nusselt Number for Fully Developed Flow in Circular Microchannels", *International Journal of Engineering, Science and Technology*, Vol. 2(8), pp.3557-3560, 2010.
16. **M. N. Khan**, "Alternative Approach for predicting the performance of irreversible Otto Cycle" *International Journal of Engineering, Science and Technology*. Vo.2 (6), pp 1860-1866, 2010.
17. **M. N. Khan**, Mohd Islam, M.M.Hasan "Analytical Approach to examine Fluid Flow and Heat Transfer through Microchannels" *International Journal of Mechanical and Automobile Engineering*, vol.5, No. 7, 2009, pp. 22-28.
18. **M. N. Khan**, Mohd Islam, M.M.Hasan "Factors Responsible for Discrepancies between Theoretical and Experimental results of Fluid Flow and Heat Transfer through Microchannels." *International journal of Applied Engineering Research*, vol. 04, Number 12, pp 2629-2640, 2009.

BOOK PUBLISHED

Title	Publisher	Country	Status
VIVA-VOCE	Dhanpat Ria Co.	INDIA	December 2000
Fundamentals of Power Plant Engineering: Performance and Operation	LAMBERT	Germany	November 2018

RESEARCH PROJECTS

Sponsoring Agency	Project title	Amount sanctioned	Period of Project	Status
EARC Majmaah University, KSA	Energy and exergy analysis of combined cycle power plant	Rs. 200000	2018-19	underway
EARC Majmaah University, KSA	Analytical analysis of nanofluids flow and heat transfer from circular and elliptical cylinder	Rs. 270000	2017-18	Completed

COURSE ATTENDED

Title	Period	Organizing Body
Computational Fluid Dynamics	6/7/2009 to 10/7/2009	IIT Roorkee
Introduction to Practical Pneumatics (SMCTP1)	5/01/2009 to 7/01/2009	SMC Pneumatics (India) Pvt. Ltd.
Bearing Technology & Maintenance	3/12/2009 to 6/12/2009	IIT Roorkee
High Impact Teaching Skills	14/12/2009 to 15/12/2009	Dale Carnegie & Association, Inc. Trainer and Wipro
Tool & Techniques of Computational Fluid Dynamics	28/06/2010 to 2/07/2010	IIT Roorkee
Intellectual Property Right & Copy Right	30th October 2010	KIET, Ghaziabad

COURSE ORGANIZED

Topic	Category	Period	Organizing Body
Advances in Material	National Workshop	5th November 2011	KIET Ghaziabad
Innovative Technologies in Mechanical engineering	International conference	24/08/2012 to 25/08/2012	KIET Ghaziabad

PROFESSIONAL MEMBERSHIP

Professional Body	Membership category
Indian Society for Technical Education (ISTE)	Lifetime
Institute of Engineers (India) (IE)	Lifetime
Solar Energy Society of India (SESI)	Lifetime
Indian Thermal Analysis society (ITAS)	Lifetime

COURSE HANDLED

Name of Course	Level
Fluid Mechanics	Graduate and Post Graduate
Turbulent Flow	Post Graduate
Gas Dynamics	Post Graduate
Thermodynamics	Graduate and Post Graduate
Power Plant	Graduate
Heat Transfer	Graduate

SOFTWARE KNOWLEDGE

Software	Level of Knowledge
Microsoft excel	Excellent
Power Point	Excellent
Microsoft word	Excellent
EES	Intermediate
MAPPLE	Beginner
Graphis	Excellent

REFERENCES

Name	Designation	Organization	Mail ID	Contact No.
Dr. KLA Khan	Professor	KIET Ghaziabad (INDIA)	klakhan1@rediffmail.com	919711178650
Dr. A. R. Siddiqui	Professor	Department of Mechanical Engineering, Maulana Azad Institute of Technology, Bhopal (INDIA)	manitars@gmail.com	917772903985
Dr. M.M.Hasan	Professor	Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi (INDIA)	mmhasan@jmi.ac.in	919891743051
Dr. B.B.Arora	Professor	Department of Mechanical Engineering, Delhi technological university delhi, New Delhi (INDIA)	arorabb@gmail.com	919891421025
Dr. Ibrahim	Asst. Prof.	Department of Mechanical Engineering, Majmaah University, KSA	i.alarifi@mu.edu.sa	966502222828
Dr. Iskander Tlili	Assoc. Prof.	Energy and Thermal Systems Laboratory, National Engineering School of Monastir, Street Ibn El Jazzar, 5019 Monastir, Tunisia	Iskander.Tlili@enim.rnu.tn	966509107698
Dr. Waseem Khan	Asst. Prof.	Department of Mechanical Engineering, Higher college of technology, Dubai	waseem_beacon@yahoo.com	971543459915

PERSONAL DETAILS

Date of birth: 10th October 1975 **Nationality:** India
Passport No. M4545935 **Expiry Date:** 05/01/2025
Marital Status: Married
Father's Name: Mr. Abdul Mushir Khan (Retired Senior Scientist, Micro-Biology Department A.M.U. Aligarh)



(Dr. Mohammad Nadeem Khan)