

CURRICULUM VITAE



1. **NAME:** DR. VAKKAR ALI
2. **DESIGNATION:** Professor of Mechanical Engineering
3. **ADDRESSES:**
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4. **EMAIL:** vakkarali@yahoo.com vakkarali786@rediffmail.com
5. **DATE OF BIRTH:** 1st January, 1964
6. **PASSPORT NO:** L1845075 (Valid up to July 28, 2023)
7. **NATIONALITY:** Indian.
8. **MARITAL STATUS:** Married.
9. **TEACHING EXPERIENCE:** 27 years

10. ACADEMIC QUALIFICATIONS:

COURSE	SPECIALIZATION	PERCENTAGE	INSTITUTE / UNIVERSITY	YEAR
Ph. D.	Mechanical Engineering	Awarded	Jamia Millia Islamia, New Delhi.	2008
M. E.	Mechanical Engineering (Thermal Engineering)	75.24%	Delhi University, New Delhi.	1998
B.E.	Mechanical Engineering	97.4%	Jamia Millia Islamia, New Delhi.	1995
Diploma	Mechanical Engineering	75.28%	K.L.P, Roorkee .	1985

11. SCHOOL LEVEL:

Intermediate	Sciences	Uttar Pradesh Board.	1982
High School	Sciences	Uttar Pradesh Board.	1980

12.EMPLOYMENT PROFILE:

DESIGNATION	DEPARTMENT	PLACE	DURATION
Professor and Head	Mechanical Engineering	MVN,Uni.,Haryana,India	Oct. 2012 to Oct.2013
Director &Prof.	Maulana Azad College of Engg. & Tech.	MACET, Patna, Bihar	Dec. 2011 to Sep.2012
Professor and Head	Mechanical Engineering	RGGI, Meerut, U.P.	Feb 2011 to Nov. 2011
Professor	Mechanical Engineering	Al-Falah School of EngineeringTechnology,F aridabad, Haryana,India.	May-2010 to Feb 2011.
Associate Professor	Mechanical Engineering	Indira Gandhi National Open University, New Delhi.	Aug-2006 to May-2010
Associate Professor	Mechanical Engineering	Priyadarshini College, GBTU, Lucknow.	Jan-2000 to Aug-2006.
Assistant Professor	Mechanical Engineering	Delhi Aeronautical Institute, New Delhi.	Aug-1995 to Dec-1999.
Assistant Lecturer (Instructor)	Mechanical Engineering	Jamia Millia Islamia, New Delhi.	Feb-1987 to Aug-1995.

12. ADMINISTRATIVE/MANAGERIAL EXPERIENCE:

POSITION	PLACE	DURATION
HOD.Mech. Engg.	MVN,University,Haryana,India	Oct. 2012 to Oct. 2013
Director	Maulana Azad College of Engg. & Tech. Patna	Dec.2011 to Sep 2012
HOD Mech. Engg.	RGGI, Meerut, UP.	Feb.2011 to Nov. 2011
Laboratory Incharge	Dept. of Mechanical Engineering Al-Falah School of Engg. & Tech.	Mar. 2010 to Feb.2011
Exam Tabulator	Dept. of Mechanical Engineering Al-Falah School of Engg.& Tech.	Mar. 2010 to Feb.2011
Exams Superintendent	Priyadarshini College, Lucknow	Aug-2000 to Dec-2005

Seminar Coordinator	Indira Gandhi National Open University, New Delhi.	Aug-2006 to Mar-2010
Technical Tour Coordinator	Delhi Aeronautical Institute, New Delhi.	May 1995 to Mar. 1996
Incharge Purchase Committee	Delhi Aeronautical Institute, New Delhi.	Aug-1996 to Jan-2000

13. GOVT ORGANISATIONS ASSISSTED IN DIFFERENT ASSIGNMENTS:

- a) National Thermal Power Plant Corporation, Korba, India.
- b) National Thermal Power Plant Corporation, Tanda, India.
- c) National Thermal Power Plant Corporation, Surat, India.
- d) Haryana Wakf Board, Ambala Cantt., Haryana.
- e) Guru Gobind Singh Indraprastha University, Delhi.
- f) Indian Institute of Technology, New Delhi.
- g) YMCA University of Science and Technology, Faridabad, Haryana.
- h) Delhi Technical University, New Delhi.
- i) Jamia Millia Islamia, New Delhi.
- j) M.D. University, Rohtak, Haryana.

14. UNIVERSITIES/INSTITUTES ASSISTED IN EXAMINATION WORKS:

UG PROGRAMME	PG PROGRAMME	Ph. D PROGRAMME
JMI, New Delhi.	M.D. University.	Sridhar University, Pilani, Raj. India
Delhi Technical University.	U.P. Technical University	
U.P. Technical University. M.D. University Rohtak. IGNOU, New Delhi.	Delhi Tech. University.	Al-Falah, School of Engg. & Tech., Fbd., India

15. DETAILS OF ACADEMIC WORKS:

ACADEMIC WORK	UG PROGRAMME	PG PROGRAMME
Curricula Developed Syllabus Revised and Introduced.	B.Tech.Mech.Engg. Basics of Mechanical Engineering.	M.Tech.Mech.Engg.(Production) Heat & Mass Transfer.
Curricula Developed	Engg. Drawing, Machine Drawing, Fluid Mechanics, Thermodynamics, I.C. Engine, Thermal Engineering.	Advanced Fluid Mechanics, Advanced Thermodynamics, Turbo Machine.
Lab. Established	Strength of Materials Lab.	I.C. Engine Lab., Fluid Mechanics

Areas of the Projects Guided	Fluid Mechanics, Thermal Engineering, Evaluation & Selection Techniques.	Optimization of Thermal System, Fabrication of Test Rig.
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16. AREAS OF INTEREST:

- a) **Engineering Drawing/ Machine Drawing.**
- b) **Refrigeration & Air Conditioning.**
- c) **Thermal Engineering.**
- d) **Applied Mechanics.**
- e) **Fluid Mechanics.**
- f) **Heat Transfer.**
- g) **Thermodynamics.**
- h) **Production Technology**
- i) **I.C. Engine.**

17. M. TECH. DISSERTATIONS GUIDED:

- a) “Study of Aerodynamic Drag on Automobiles”; Co-guide, Mr. Shashikant, AFSET, 2009.
- b) “Force Analysis by Square Ring Transducer using Strain Gauge.” Co-guide, Mr. Ombeer, AFSET, 2009.
- c) A comparative study of “Pressure distribution on different Aerodynamic models of vehicle” Guide, Mr Mohd Saleem, AFSET, 2010.
- d) “A study on Boundary layer Drag resulting fuel Consumption on different models of Aerodynamic vehicle” Guide, Mr Sachin Chaturvedi, AFSET, 2010.

18. SEMINAR SUPERVISION:

1. “Seminar on Renewal of Energy and Power Generation in Indian Context” by Navneet Mittal, 1996, Delhi Aeronautical Institute.
2. “Seminar on Air Craft Air Conditioning and Pressurization” by G.S. Sharma, 1997, Delhi Aeronautical Institute.
3. “Seminar on Optimal Design of Counter Flow Heat Exchanger” by Abani Kumar, 1998, Delhi Aeronautical Institute.
4. “A Study of Cryogenic Dewars” by Sushil Kumar, 1998, Department of Mechanical Engineering, Delhi Technical University.
5. “A Study of Various Methods of Pressure Measurement” by T. A. Khan, 1999, Delhi Technical University.
6. “Seminar on Gliding” by Laxman Rain, 1999, Delhi Aeronautical Institute.

7. "Seminar on Catalytic Converter for two Stroke S.I. Engines" by T.A.Khan 2000, IGNOU, New Delhi.
8. "Seminar on Automatic Strain Measurement Using Cantilever Beam" by Ali Hamid, Priyadarshini College, 2000.
9. "Seminar on Gear Reducer" by Barkat Ali, Priyadarshini College, 2001.
10. "Seminar on Renewal of Energy and Power Generation in Indian Context" by Navneet Mittal, 1996, Delhi Aeronautical Institute.
11. "Seminar on Air Craft Air Conditioning and Pressurization" by G.S. Sharma, 1997, Delhi Aeronautical Institute.
12. "Seminar on Optimal Design of Counter Flow Heat Exchanger" by Abani Kumar, 1998, Delhi Aeronautical Institute.
13. "A Study of Cryogenic Dewars" by Sushil Kumar, 1998, Department of Mechanical Engineering, Delhi Technical University.
14. "A Study of Various Methods of Pressure Measurement" by T. A. Khan, 1999, Delhi Technical University.
15. "Seminar on Gliding" by Laxman Rain, 1999, Delhi Aeronautical Institute.
16. "Seminar on Catalytic Converter for two Stroke S.I. Engines" by T.A.Khan 2000, IGNOU, New Delhi.
17. "Seminar on Automatic Strain Measurement Using Cantilever Beam" by Ali Hamid, Priyadarshini College, 2000.
18. "Seminar on Gear Reducer" by Barkat Ali, Priyadarshini College, 2001.
19. "Seminar on Material Handling by Robotics Counting and Rejection Device" by Sujeet Kumar, Priyadarshini College, 2002.
20. "Seminar on Bio Diesel Fuel" by Pawan Kumar, Priyadarshini College, 2003.
21. "Seminar on Alternative Fuels" by R.P. Waykar, , Priyadarshini College,2003.
22. "Seminar on Analysis of Shell and Tube Heat Exchanger" by Om Prakash Teotia, Priyadarshini College, 2004.
23. "Seminar on Study of Aerodynamic Drag and Lift" by S. M. Mazhar, 2004, Priyadarshini College.
24. "Seminar on Sensor based Conveyor Inspection" by Annu Singh, Priyadarshini College, 2005.
25. "Seminar on Automatic Plazma Arc Welding" by Netra Pal Singh, Priyadarshini Clollege, 2006.
26. "Seminar on Laser Beam Welding" by Ajit Kumar, IGNOU, 2007.
27. "Seminar on Forces Acting on an Automobile Vehicle During Motion" by Alok Kumar, IGNOU, 2008.
28. "Seminar on Power Consumption in Automobile Vehicle due to Aerodynamic Drag

Force” by Ajay Kumar, IGNOU, 2009.

29. “Seminar on Heat Generation due to Boundary Layer Formation on Aerodynamic Vehicle” by Mohd Feroz, AFSET, 2010.
30. “Seminar on Harvesting of Wind Energy” by Mohd. Nadeem, AFSET, 2010.

19. SUPERVISOR FOR RESEARCH PROGRAMME

- a) **Shridhar University, Pilani Rajasthan, India.**
- b) **Al-Falah School of Engineering and Technology, Faridabad, Haryana, India.**

20. WORKSHOPS/CONFERENCES ORGANISED/ATTENDED:

- a) “Fourth Annual Conference of the Indian Society of Industrial and Applied mathematics” held at Department of Mathematics, J.M.I., New Delhi, during Apr 06-08, 1996.
- b) INCARF’ 1996, International Conference on CAD, CAM, Automation, Robotics and Factories of future, held at Jamia Millia Islamia, New Delhi, 1996.
- c) “National Programme on Ion Exchange polymer and membrane Technology” held at Delhi College of Engineering, Delhi, during Feb.07-08, 1997.
- d) Two weeks AICTE/ISTE short term Training Programme on “Combustion Generated Pollution” held at Department of Mechanical Engineering J.M.I., New Delhi, during Mar 18-29, 2004.
- e) International Conference on “Water and Peace”, held at Jamia Millia Islamia, June 4-5, 2004.
- f) Ten days Training Programme on “Auto-CAD” conducted by Department of Mechanical engineering J.M.I. New Delhi, Aug, 2004.
- g) National Conference on Advances in Mechanical Engineering held at J.M.I., New Delhi, during Jan, 20-21 2006.
- h) One day Workshop “Sustainable Development” held at Jamia Millia Islamia, New Delhi, March-10, 2006.
- i) National Conference on Trends and Advances in Mechanical Engineering, held at YMCA, Institute of Technology, Faridabad, during Dec 09-10, 2006.
- j) Workshop on ‘Right to Information Act-2005’ held at Jamia Millia Islamia, October-10, 2009.
- k) One day Workshop on “Computer Application” at Department of Computer Engineering, AFSET, Faridabad, May 11, 2009.
- l) One day Workshop on “Global Warming” at Department of Applied Science and Humanities, AFSET, Faridabad, Jun 16, 2009.
- m) One day Workshop on “Sustainable Development” at Department. Applied Science and Humanities, AFSET Faridabad, Dec 12, 2010.

21. RESEARCH WORK:

- a) Conducted Research on “**Power Output and Efficiency of some Endo-reversible Power Generation Cycle, with finite – time Thermodynamics**”, submitted as a part of the ME work at Delhi College of Engineering, Delhi University, New Delhi.
- b) Conducted Research on “**A comparative study of factors influencing aerodynamic drag resulting fuel consumption in different models of aerodynamic vehicle**”, submitted as PhD Thesis at Jamia Millia Islamia, New Delhi-110025

22. RESEARCH PAPERS:

National Conference /International Conference /International Journals:

1. Mukhtar Ahmad, **Vakkar Ali** “Mathematical Tools of Optimization Employed in Engineering Design” A Review pro. Fourth Annual Conference of Indian Society of Industrial & Applied Mathematics, Jan, 1996, Jamia Millia Islamia New Delhi-110025. (India).
2. Abdul Khaliq, **Vakkar Ali**, Tasmeeb Ahmad Khan, “Optimization of Irreversible Thermal Insulation System” International Symposium on Science & Technology at Shelter Council, Kolkata (India) Jan,2000.
3. **Vakkar Ali**, I.A. Khan. S.M.Muzakkir, “Evaluation & Selection of A Mechanical System- An MADM Approach.” Advance in Mechanical Engineering at Jamia Millia Islamia New Delhi-110025.(India) Jan,2006.
4. Abdur Rahim, Mukhtar Ahmad, **Vakkar Ali**,”Numerical study of Turbulent Flow through Axisymmetric Combustor” Advance in Mechanical Engineering at Jamia Millia Islamia New Delhi-110025.(India) Jan,2006.
5. **Vakkar Ali**, M.Islam, Abdur Ramim, Naseem Ahmad,” Effect of Boundary Layer Drag on Power consumption of a moving Car” International Conference on Advances in Mechanical Engineering (AME2006), December 1-3, 2006, Fatehgarh Sahib, Punjab, INDIA.
6. **Vakkar Ali**, M.Islam, Abdur Rahim, Naseem Ahmad,” Drag Estimation on an Aerodynamic body” NCME-2006, TIET, Patiala-147004. (India).
7. **Vakkar Ali**, Mohd Islam, Abdur Rahim, Naseem Ahmad “Drag Estimation Due to Boundary Layer Flow over a Flat Surface”. National Conference on Trends and Advances in Mechanical Engineering 2007, YMCS, Faridabad, Haryana, India.
8. **Vakkar Ali**, Mohd Islam, Abdur Rahim, Naseem Ahmad “Boundary Layer Flow and Drag Estimation on the Body of Moving Car”. [International journal of Fluid Mechanics Research, issue 6, volume 33, pages 489-499, 2006.](#)
9. Sachin Kumar Chaturvedi, Mohd.Owais Qidwai, **Vakkar Ali**, “Analysis of Design for Self-Propelled Shaft by Composite Materials”.National Conference on Advancement in Mechanical Engineering, May 23, 2011,Al-Falah School of Engineering and Technology, Faridabad, Haryana, India.
10. Shahzad Ahmad, Sujeet Kumar, **Vakkar Ali**, “Similarities and Difference between TQM, SIGMA and Lean”. National Conference on Advancement in Mechanical

- Engineering, May, 23, 2011, Al-Falah School of Engineering and Technology, Faridabad, Haryana, India.
11. Pawan Taneja, **Vakkar Ali**, “Study on Effects of Various Surface Heat Treatment Processes on Gear Failure”. National Conference on Emerging Trends in Power Industry., Feb 15-16, 2013. Selaqui Institute of Engineering and Technology, Dehradun, Uttarakhand, India.
 12. Sanjay Singh, **Vakkar Ali**, “A study of Aerodynamic Drag on different automobiles on the road with wind tunnel test”. National Conference March 1-2, 2013, Department of Mechanical Engineering, Manav Rachna University, Faridabad, Haryana, India.
 13. **Vakkar Ali**, Mohd Noman Ali, “Numerical Solution of Boundary Layer Flow Past a Stretching Plate”. Communicated in **International journal of Fluid Mechanics Research 2013**
 14. **Vakkar Ali**, Mohd Noman Ali, Moin Akhtar Ansari, “A study of Aerodynamic Drag and Power Consumption on different automobiles on the road with wind tunnel test”. Communicated in **International journal of Fluid Mechanics Research, 2013.**
 15. **Vakkar Ali**¹, Sharvan Kumar Dubey², Vikas Salyan³, Pawan Kumar Taneja⁴, Kailash Attri⁵ “**Drag Force Analysis for a Moving Aerodynamic Vehicle**”. *International Journal of Engineering Research and Technology*, ISSN 0974-3154, Vol.4.
 16. Sharavan Kumar Dubey¹, Vikas Salyan², **Vakkar Ali**³, Pawan Kumar Taneja⁴, G S Sharma⁵ “Accumulation and Dissolution of heat restoration from Domiciliary baking system”. *International Journal of Engineering Research and Technology*, ISSN 0974-3154, Vol.7.
 17. Sharavan Kumar Dubey¹, Vikas Salyan², **Vakkar Ali**³, Pawan Kumar Taneja⁴, G S Sharma⁵ “A Study on Various Gear failures & their prevention”. *International Journal of Engineering Research and Technology*, ISSN 0974-3154, Vol.6.
 18. Vikas Salyan¹, Sharvan Kumar Dubey², **Vakkar Ali**³, Kailash Attri⁴, Sujeet Kumar⁵ “Beat Challenges of Supply Chain Management in Modern Industries”. *International Journal of Engineering Research and Technology*, ISSN 0974-3154, Vol.2.
 19. Kailash Attri¹, Dr. Rajeev Kr. Saha², **Vakkar Ali**³, G. S. Sharma⁴, Vikas Salyan⁵ “Effects of Kaizen on the Productivity and Quality of Select Indian Manufacturing Industry”. *International Journal of Engineering Research and Technology*, ISSN 0974-3154, Vol. 5.

22. REFERENCES:

- a) **Professor** Naseem Ahmad, Professor, Department of Mathematics, Jamia Millia Islamia, New Delhi -110025, Email: naseem.mt@jmi.ac.in, Contact No. +911126989967, Ext 3358, +911126984343, +919990151445

- b) **Professor S.A.H.Rizvi**, Professor, Dept. of Industrial Engg., King Abdul Aziz University P O Box No. 80204, Jeddah 21589, Saudi Arabia.,Email: aliulrizvi@yahoo.com Contact No.: +966506350823.
- c) **Professor S.C. Kaushik**, Professor Energy Center, IIT Delhi,
E-mail: [kaushik\[at\]ces.iitd.ac](mailto:kaushik[at]ces.iitd.ac) in Contact No.: +911126591960, 26591253.
- d) **Professor Khawza Mohd. Rafi**, Professor and Director Brown Hills College of Engineering and Technology, Faridabad, Haryana, India, Email: kmrafi1@gmail.com, Contact No: +919873717806

Date: 01.12.2013

(DR. VAKKAR ALI)

Place: New Delhi