

Curriculum Vitae



Dr. Jamshed Ahmad Usmani
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Department of Mechanical Engineering.
Faculty of Engineering and Technology.
Jamia Millia Islamia, JamiaNagar,
New Delhi-110025

Present Position: Professor and Head

Specialization: Thermal Engineering /Renewable Energy

Title of the PhD Thesis: Thermal Analysis, Performance Evaluation of
Biogas system & Reduction of CO₂ emissions.

Title of dissertation of M.Tech: Measurement of thermo physical properties of
fish.

Subjects Teaching at Graduate and Post Graduate level:

Refrigeration&Air-conditioning,
Thermodynamics, Heat Transfer
Elements of Mechanical Engineering
Utility Engineering.

Guided/Awarded Ph.D.

Awarded Three Ph.D. to the students in the
area of Energy and Refrigeration &Air conditioning.

Entitled:

(1) “Life cycle assessment of Photovoltaic Electricity generation system”

(2)“energy conservation through upgraded thermal insulation system”

(2)“Thermo economic Analysis of refrigeration system”

Date of Birth: July1, 1954 / 62yr.

Nationality: Indian

Marital Status: Married

EDUCATIONAL QUALIFICATIONS

S.N.	Qualification/Degree	Year of completion	Univ. /Board	Div (%)
1,	Doctor of Philosophy (Ph.D.)	1999	Indian Institute of Technology, Delhi	Awarded
2.	Masters in the Thermal Engineering	1987	Zakir Hussain College of Engineering and Technology, Aligarh Muslim University, Aligarh, India	First Division.
3.	Graduate in Mechanical Engineering	1978	Regional Engineering College, Srinagar, Kashmir, India	First Division.

TEACHING AND RESEARCH EXPERIENCE IN JAMIA (Total 31Years)

S.N.	Position	Department/Institution	Duration	No. of years
1	Professor	Department of Mechanical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi	Feb2005-till date	10+
2	Associate Professor (Reader)	Department of Mechanical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi	From February 1995-Feb2005	15
3	Senior Lecturer	Department of Mechanical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi	FromJan.1993-Jan.1995	2
4	Lecturer	Department of Mechanical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi	From Nov,87 – Jan1993.	5

TEACHING AND RESEARCH EXPERIENCE Outside Jamia(5 YEARS)

S.N.	Position	Department/Institution	Duration	No. of years
1	Lecturer	Department of Mechanical Engineering, Zakir Hussain College of Engineering & Technology, Aligarh Muslim University, Aligarh, India	From October 1987 to November 1987	One Month
2	Assistant Lecturer	Foundation of Technical Institute, Basra, IRAQ under Ministry of Higher Education and Scientific research, IRAQ	From November 1979 to August 1983.	4
3	Assistant Professor	King Khalid University, Abha, Saudi Arabia	From September 2007 to August 2008	1

LIST OF PUBLICATIONS

1. Tiwari, G.N., Chandra, A. and **Usmani, J. A.** “Determination of period for Biogas production”, **An International Journal of Energy Conversion and Management**, Vol.37, No.2, pp.199-203 (1996).
2. **Usmani, J.A.**, Tiwari, G.N. and Chandra, A., “Performance Characteristics of a greenhouse integrated biogas system”, **An International Journal of Energy Conversion and Management**, Vol. 37, No.9, pp.1423-1433, (1996).
3. **Usmani J.A.**, Ansari, F.A., “Measurement of Thermo physical properties of North Indian sweet water Fish variety”, ENSC-2001, New Delhi, India, pp8 (2001).
4. **Usmani, J. A.** Mubeen, A., Tiwari, G.N. and Chandra, A., “Reduction of Carbon Dioxide (CO₂) emissions by using Biogas as fuel”. Proc. **National Conference on Advances in Contemporary Physics and Energy.I.I.T. New Delhi**, India pp 267-275 (Feb.8-9, 2002).
5. Mukhtar Ahmad, **Usmani, J.A.** and Seshadri, V., “Prediction of Concentration Profile across A Slurry Pipeline”. Proceeding, 18th **National Convention of Mechanical Engineers**. pp 131-138 (2002)
6. Ansari, F.A., Mukhtar Ahmad, **Usmani, J.A.** and Abbas, K.A., “Effect of skin on air-blast cooling behavior of fruits and vegetables. Proceeding of APM2002” 3rd **International conference on computational Heat and Mass Transfer, May 26-30, 2003 Banff, Canada. Paper number “11”**

7. **Usmani, J.A.**, Ansari, F.A. and Mukhtar Ahmad, "Measurement of Thermal properties of Indian Fish variety" **Institution of Engineers journal-AG (India)** Vol . 85, pp 64.-68, (December 2004)
8. Hasan, M.M. Mubeen A. and **Usmani, J.A.** "Combined Power Plant –A viable Option Meeting Future Power Needs." **National Symposium on Towards Self Reliance in Power**. April 18-19, 2004, CMERI, Durgapur, India.
9. Mubeen A., Hasan M.M, Khan M.Emran, **Usmani, J.A.** Islam M., Khaliq A., "Future Power Planning for Sustainable Development", **Proceeding of International Conference on Energy & Environment-Strategies for Sustainable Development**, January 2004, Jamia Millia Islamia, New Delhi., India.
10. Mubeen, A., Hasan M.M., Khan M.Emran, **Usmani, J.A.** , "Mitigation of Green house gas Emissions in the agriculture sector", **Proceeding of International Conference on Energy and Environment-Strategies for Sustainable Development**, January 2004, Jamia Millia Islamia, New Delhi. **India.**
11. Mubeen, A., Hasan, M. M., Khan M. Emran, **Usmani, J.A.** "Technologies for Reducing CO₂ Emission by Using Biogas as Fuel", **Proceedings of International Conference on Energy and Environment-Strategies for Sustainable Development**, January 2004, Jamia Millia Islamia, New Delhi **India**
12. Mubeen, A. Hasan, M. M., Khan, M. Emran, **Usmani, J. A.** "Technologies for Reducing GHG Emissions in the Agriculture Sector", 2nd BSME- ASME **International Conference on Thermal Engineering**, 2-4 January, 2004, Dhaka, Bangladesh.
13. Mubeen, A., Hasan, M.M., Khan M.Emran, **Usmani, J.A.**, "Greenhouse Effect Mitigation through Biogas Fuel", 2nd BSME- ASME **International Conference on Thermal Engineering**, 2-4 January 2004, Dhaka, Bangladesh.
14. **Usmani, J.A.** "Performance testing of Biogas Burners" **National conference on Advances in Mechanical Engineering**, January 20- 21, 2006, Jamia Millia Islamia , New Delhi, India
15. **Usmani, J.A.**, Khan, M.E., Hasan, M.M., "Submission of a Paper for an International Conference: A Sample Format, **Indian Journal of Science Communication**, Vol. 4, No. 2, pp. 31-33 (2005)
16. **Usmani, J.A.** "Steady state Thermal Analysis of Integrated Biogas systems" **Proceeding of National conference on Advances in Heat Transfer and**

Fluid Dynamics, Organised by Department of Mechanical Engineering, Z.H.C. of Engg. & Tech. A.M.U. Aligarh, **India**, pp419-427, Sept.16-17,2006.

17. Arif, M. **Usmani, Jamshed A.**, Chandra, Avinash, "Life Cycle Analysis of Biogas System", **The 2nd Joint International Conference on "Sustainable Energy and Environment (SEE2006), Bangkok, Thailand, E-082 (O) pp1-4, 21-23 November 2006.**
18. Arif, M. **Usmani, Jamshed Ahmad.**, Chandra, Avinash, "Energy Pay Back Time and Environmental Advantages of Commercial Type Plant Biogas System", **Proceedings of 3rd International Conference on Solar Radiation and day Lighting (SOLARIS 2007), February 7-9, 2007 New Delhi, India, pp.535-539.**
19. Arif, M. **Usmani, Jamshed Ahmad.**, Chandra, Avinash, "Energy Analysis of Biogas System", **Proceedings of 1st International Conference on Advances in energy Research, (ICAER2007), pp 51-55. 12-14 December, 2007, IIT Bombay. India.**
20. A.F.Sherwani, **J.A.Usmani**, Varun "Life cycle assessment of solar PV based electricity generation system" An **International Journal of Renewable and sustainable Energy Reviews(2009) Elsevier. RSER 779 1-5.**
21. A.F.Sherwani, **J.A.Usmani**, Varun "Life cycle assessment of 50KWp grid Connected solar photovoltaic (SVP) system in India" An **International Journal of Energy and Environment, Vol.2(2011). IRAQ.**
22. Zeba Naaz, Mohammad Shahid and J.A.Usmani "Study of the design aspects of Green Building", National Conference on Emerging Frontiers in Mechanical Engineering for new generation industry [EFME 2011] by Ideal Institute of Technology Ghaziabad, 12-13 March 2011.
23. Shammi Noor and Jamsed Ahmad Usmai. "Performance Evaluation of an Energy Efficient Building and making it net zero", National Conference on Emerging Frontiers in Mechanical Engineering for new generation industry [EFME 2011] Organised by Ideal Institute of Technology Ghaziabad, 12-13 March 2011.

Editorial Board Membership/Reviewer of International Journals:

1. Journal of Food Process Engineering, Elsevier science Ltd, Great Britain.
2. American Journal of Food Technology.
3. Asian Journal of Scientific Research
4. Research Journal of Environmental Sciences

Projects Guided:

Guided about 40 projects at Undergraduate/Post graduate level in the areas of Air-conditioning and renewable Energy.

Establishment of Laboratories:

Established the following two Labs in the department of Mechanical engineering:

- (i) Refrigeration and Air Conditioning
- (ii) Engineering Mechanics Lab.

Administrative Experience:

(1) Worked as Coordinator of B.E. (Part Time undergraduate course).

(2) Presently working as coordinator (In charge of academic affairs) for B.Tech, II.semester for Engineering Thermodynamics (ME-201).

Membership of professional bodies: Life Member of Indian Society for Technical Education (ISTE).

Guest Talk: I was invited to deliver guest talk in a short term course on “Energy and Environment Management” at NIT Hamirpur on May 13th and 14th 2010. (Sponsored by A.I.C.T.E/MHRD, Govt of India).

Contribution to Institutional Corporate Life:

(i) Worked as Student advisor for two academic years and Served as an **Executive member of Jamia Teachers’ Association.**

(ii) assigned the membership of Jamia Millia Islamia for a period of three years :
Executive Council
Academic Council and
Jamia Court

CONFERENCES ATTENDED

1. Seventh Indian Society of Mechanical Engineers, New Delhi, India (February 1-3, 1990).

2. International conference on Lighting Technology, New Delhi, India (October 7-13, 1991).
3. Eighteenth National Symposium on Cryogenics (ENSC-2001), New Delhi, India (November 21-23, 2001).
4. National Conference on Advances in Contemporary Physics and Energy, New Delhi, India (February 8, 2002).
5. National Conference on Management of Higher Education: 21st Century Challenges, New Delhi, India (February 9, 2002).
6. International Conference on Energy and Environment-Strategies for Sustainable Development, January 2004, JMI, New Delhi.
7. National conference on Advances in Mechanical Engineering, January 20-21, 2006, JMI, New Delhi.

REFRESHER COURSES AND WORKSHOPS ATTENDED

1. Winter School on Instructional design for Computer Aided Instruction (November 30 to December 10, 1993).
2. University Grants Commission Refresher course on Environmental Science & Technology (December 12 to December 30, 1994).
3. Refresher course on “Passive Building Systems” organized for center for energy Studies, Indian Institute of Technology, New Delhi, India in collaboration with Ministry of Non-Conventional Energy Sources, Government of India from March 29-31, 1997.
4. Workshop on Development of Quality Question Paper organized by ASC, Jamia Millia Islamia, New Delhi. (January 10-13, 2003).
5. Workshop on “Combustion Generated Pollution” organized by Deptt. Of Mechanical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi (March 18-28, 2004).
6. Workshop on ESP performance: Role of fly ash resistively organized by Centre for Energy Studies IIT Delhi (September 23-24, 2004).
7. One day seminar on “Application of conducting polymers & nanomaterials in science and Technology organized by department of applied science and humanities, faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi (Sep.19,2006).

8. Converging India leadership summit 2011, ITC maurya, New Delhi(September 8,2011).
9. 2nd summit on India Public Sector Agenda @2020 and PSE Excellence Awards 2011, Taj Mahal Hotel,New Delhi(September 19,2011).

(JAMSHED AHMAD USMANI)