

CURRICULUM VITAE

Prof (Dr.) Khwaja MRAFI

Full Name	:	Prof. (Dr.)Khwaja Mohd. Rafi
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Father's Name	:	Mr.KhwajaM.Kamil
Date of Birth	:	December 01, 1975
Nationality	:	Indian
Status	:	Married
Sex	:	Male
Languages Know	:	English, Hindi & Urdu (Arabic can read & write)
Passport No. & validity	:	Z 3931432 TILL 18/09/2026

Educational/Professional Qualification:

1.	Ph. D, Jamia Millia Islamia (Central University, Govt. of India) New Delhi		2014	Analysis, Modeling & Development of an Integrated Renewable Energy System (IRES)
2.	Master of Technology, AMU (Central University, Govt. of India) Aligarh, UP	1 st	2006	Instrumentation & Control
3.	Bachelor of Technology Jamia Millia Islamia, New Delhi	1 st	1998	Electrical Engineering
4.	Intermediate. (XIIth) Jamia Millia Islamia, New Delhi	1 st	1993	PCM Group
5.	Matriculation (Xth) Jamia Millia Islamia, New Delhi	1 st	1991	Sci., S.Sci. Maths Urdu, Hindi, English

Administrative and Academic Experience:

1. **18 years+** Professional experience including Teaching, Industry, Research and Training. Presently working as Director of Mewat Engineering college, Nuh, Haryana. This is an Institute established by Haryana Waqf Board, Govt of Haryana.

2. I was Director and Professor at Maulana Azad College of Engineering and Tech, Patna, Bihar and Jahangirabad Institute of Technology under JETGI, Barabanki, UP. I have served these Institutes more than 5 years in an administrative position. These are approved by AICTE, MHRD, Govt of India.
3. Principal In-charge/OSD/Asst Prof of Brown Hills College of Engineering & Tech. and Al-Falah School of Engineering and Tech Faridabad, approved colleges by AICTE, Govt. of India and Affiliated to MDU-Rohtak. Govt of Haryana.
4. Worked as A. Consultant in **World Bank and Govt. of India** prestigious **TEQIP** project. Provided consultancy/assistance for procurement and academic activities to 128 selected Technical colleges across the India including NITs.
5. Worked as Master Resource Person (**MRP**) for science popularizing programme of **NCSTC, DST, Govt. of India** since 1998.

Professional Experience:

Designation	Name of Institution	Period	Subjects
Director/Professor	Mewat Engineering College, Nuh, Haryana	July 2019 to till date	Academics & Administration
Director/Professor	Maulana Azad College of Engineering and Tech Patna, Bihar	Aug 2018 to July 2019	Academics & Administration
Professor/Director Principal	Jahangirabad Institute of Tech, Barabanki, UP	May 2014 to June 2018	Academics & Administration
Principal/Professor (Deputation)	Brown Hills College of Engg. & Tech.	June 12 to Feb. 14	Academics & Administration
OSD/Professor (Deputation)	Brown Hills College of Engg. & Tech.	Sept. 2010 to June 12	Academics & Administration
OSD/Asst Prof. (Deputation)	Brown Hills College of Engg. & Tech.	Sept. 08 to Sept10	Academics & Administration
Asst. Professor	Al-Falah School of Engg. & Tech. Haryana	Dec.06 to Sept.,08	Instrumentation & Control
Associate Consultant	NPIU, Ed.CIL Govt. of India	April 2004 to Dec. 2006	Consultant for improvement of Tech Ed in India
Lecturer	G.L.A.Inst. of Tech. &Mang. Mathura	Aug.2003 March 2004	Automatic Control Systems.
G. Lecturer	Al-Falah School of Engg. & Tech. Haryana	July 2000 to July 2003	Instrumentation & Control
Science Communicator	NCSTC, DST, GOI New Delhi	Jan. 1999 to July 2000	S&T Communication

SELF ASSESSMENT

I have been doing a number of activities with various Government and non-Government organizations related to Research & Development, education, science popularization, establishment of institution etc. I was also instrumental in organizing interactive programs, seminars, symposiums, workshops etc.. Being a Lecturer/Asst. Professor/Professor, I have taught B. Tech and M.Tech students in Engineering Colleges. **Thesis at B.Tech, M.Tech and Ph.D level is being guided. I was Superintendent for conduction of CTET of UGC/CBSE exams at Patna.**

Worked in a Government Organization called National Project Implementation Unit under MHRD, GOI assisted by World Bank. The prime duty being an Associate Consultant was to look after the procurement and academic activities in technical institutions of National repute in India. There were two projects called Tech Ed III and TEQIP, which were assisted by the World Bank and NPIU was the nodal agency responsible for implementation of these projects.

Presently also associated as consultant with M/s EQUATE, a national level consultancy organization established for providing support to Technical education in the India and abroad.

Memberships

- Member Indian Science Congress Association (ISCA), A highly reputed and very old established organization working for promotion of the Science Communication and R&D activities in India and Abroad.
- Member, Indian Science Writer Association (ISWA), a professional body for Science Journalism, New Delhi
- Member NCSTC-Network, a professional body for Science Communication, New Delhi
- Member Board of studies as special invitee in Dept. of Computer Science, AFSET
- Member Board of studies as in Dept. of Electrical & Electronics Engg., AFSET
- Member Academic Council of Al-Falah School of Engineering & Tech. (an autonomous institution under MDU-Rohtak, Haryana)

Patents

- 90-95% Methane Production from Kitchen Waste by Anaerobic digestion Process. A model was designed and implemented. **Patent No 1085/DEL/2014 A.**
- WifiSolar Car- Patent to be applied.

Papers in Journals

- Mohamed A. Sharaf Eldeana, Khwaja M Rafi, A M Soliman “Performance Analysis of Different Working Gases for Concentrated Solar Gas Engines: Stirling & Brayton” *Energy Conversion and Management-An International Journal of ELSEVER* ISSN 0196-8904, Volume 152,

- <https://www.journals.elsevier.com/energy-conversion-and-management>
- NeenaAhuja, DipaliBansal, **Khwaja M. Rafi** “Compacting Biogas Digester for Installation in the Backyard” *International Journal of Applied Engineering Research* ISSN 0973-4562 Volume 11, Number 9 (2016) pp 6219-6226, Research India Publications. <http://www.ripublication.com>.
 - Jagriti Mishra, GouriSankar Mishra, KiranRavulakollu, Ravi Rastogi and **K. M Rafi** “Machine Translation of Indian Signs for Endocrinologist” *International Journal of Emerging Technology & Advanced Engineering* Volume 4, Issue 4, pp 112-116, April, 2014. (Impact factor ISRA Impact Factor 4.027 for year 2016)
 - Huma, **K M Rafi**, Pavan Kumar, “Artificial Neural Network Based Self-Tuning Adaptive Power System Stabilizer” *International Journal of Advance Research in Science & Engineering-* Vol. 02, Issue 05, May 2013
 - MajidJamil, **Khwaja M Rafi**, NeenaAhuja, “Customized Biogas based Distributed Power Generation” *Invert’s Journal for Renewable Energy*-Vol. 2, No. 4, pp. 182-190, 2012.
 - Ban Hamdan, NaquiAnwer, **Khwaja M Rafi**- Design, Simulation and Performance Analysis of Solar Photovoltaic Panel using MATLAB-**Invert’s Journal for Renewable Energy**- Vol.2, No 2, 2012, pp 1-6.
 - **K M Rafi**,MajidJamil, Shiraz Kirmani, NeenaAhuja“A Hybrid Model For The Energy Generation Through IRES In Faridabad” published in **Global Sci-Tech (ISSN 0975-9638-S&T Journal)**- pp 83 to 86, Vol. 3, No.2

Paper presentations in conferences/Seminars

International

- NeenaAhuja, Dr. DipaliBansal and **Dr. Khwaja M.Rafi** “Fuzzy Computing for Feedstock Selection in Biogas Plant” *IEEE supported International Conference on Soft Computing Techniques & Implementations* Oct 8-10, 2015 at Manav Rachna International University-Faridabad
- National Conference on Advancement in Mechanical Engineering, Al-Falah School of engineering & Tech, Dhauj, Faridabad from 22-23 August 2013- “*Application of Kaizen in Engineering education system*”
- IEEE Global Humanitarian Technology Conference at **Seattle-Washington, USA** from 30th Oct. to 1st Nov. 2011-Energy Potential & Generation Through IRES in City of Faridabad-India
- First International Science Activities conference of Asia at Doha, Qatar (AG) from 26 to 28 Oct. 1998
- International Children Environment Conference, Doha, Qatar (AG) from 17 to 19 Oct. 1997.

National & Regional

- National Conference (Lecture Series and discussion on Future Earth-2050) on Advancement in Mechanical Engineering, Al-Falah School of engineering & Tech, Dhauj, Faridabad from 22-23 August 2013- “*Biogas production to the tune of 90-95% efficiency*”

- Khwaja M Rafi, MajidJamil, NeenaAhuja, “Biogas based standalone Distributed Power Generation System” *The 12th Indian Science Communication Congress (ISCC-2012)*, at INSA, New Delhi, Sponsored by NCSTC, DST, Govt. of India, December 17-21, 2012,
- Paper presented in a national conference cum awareness programme on **Biodiversity and climate change** -Topic “Role of thermodynamics in the development of sustainability criteria. Page No.-Jan 24-25, 2013
- Paper presented in a national conference on **Combustion Generated Pollution & Alternative Sources of Energy**-Topic Renewable Energy- Page No. 58-60-May 21, 2009
- Paper presented in a national conference on **Pollution & Its Control: Recent Advances**-TOPIC ENERGY FROM SUN, Page 27-29 of conference proceeding-May 7, 2008
- Paper presented on **Non-conventional Source of Energies** on the occasion of NSD at AFSET-Supported by RVPS, DST, GOI on February 28, 2008
- Paper presented in a Regional Conference on EMERGING TECHNOLOGY IN INDIA at GLA Inst. of Tech. Mathura from 25 to 26 January- 2004

Reviewer of Papers/Chair of sessions of International/National Conferences

- Chaired session in **12th IEEE INDICON** an International Conference at JamiaMilliaIslamia, 17-20 Dec 2015
- Chaired Poster Session II in **The 12th Indian Science Communication Congress (ISCC-2012) on the them Risk Communication & Development** held at Indian National Science Academy (INSA), Bahadur Shah Zafar Road, New Delhi from December 17-21, 2012
- Chaired II session of Indian Science Congress-Delhi Chapter held at Delhi on” How to make science Research more, or as lucrative in Dec 2012 at India International Centre, New Delhi
- Reviewed papers for the international conference of GHTC held at Seattle, Washington, Oct-2011

Paper Evaluator/Moderator/Maker

- Member of papers Moderators committee at IGNOU, New Delhi.
- Member of paper Moderation Committee at AFSET, Maharishi Dayanand University, Rohtak.
- Paper setter for IGNOU school of engineering
- Paper setter for AFSET for New & Renewable energy resources

SDPs and Workshops

- National workshop on Higher technical Education-Challenges and opportunities 24-25 Sept 2016 at AMU, Aligarh- under a Govt of India programme called TEQIP.
- UGC Human Resource Development Centre of AMU organized Centre for Academic Leadership and Education Management under the scheme PanditMadan Mohan Malaviya National Mission on Teachers and Teaching MHRD, Govt of India from 16 to 17 Jan 2016 at Integral University, Lucknow.
- Attended a “National workshop on Communicating Science of Conservation of Planet Earth to the people for Peaceful Co-existence and a Just World” as delegate from 22-24 March-2013 at Jawaharlal Nehru Univ., New Delhi.

PG Dissertation under my Guidance

- Topic “Artificial Neural Network based Self-Tuning Adaptive Power System Stabilizer” by Ms. Huma, M.Tech Student, AFSET
- Topic “Design Engineering A Customized Distributed Power System based on Biogas by Ms. NeenaAhuja, M.Tech Student, AFSET
- Topic “Solar Potential and its Utilization in the city of Basra, Iraq” by Ms. Ban Hamdan, Students-M.Tech, AFSET

Talks

- Delivered talk on *Methane gas production to the tune of 90-95% from Biomass* at *National Conference on advancement in Mechanical Engineering* at Al-Falah School of Engg and Tech-organized by Mechanical Dept and catalyzed by Ministry of Earth sciences, Govt of India. From 22-23 Aug-2013
- Invited lecture on *Climate change and sustainable energy resource* during workshop on *Inspiring Humanity for Environment Protection & Energy Conservation* from 14-15 March 2013 at AFSET.
- Delivered a talk on Biomass Energy Resources on 25/01/2013 during regional level awareness programme at BHCET- Faridabad- Catalysed and supported by Ministry of Earth Sciences, Govt. of India
- Deliver a talk on SCIENCE KI DUNIA at AIR, Govt. of India - Broadcasted on 10 August 2009
- Deliver a talk on science news at AIR, Govt. of India - Broadcasted on 08 June 2009

- Deliver a talk Urdu Majlis at AIR, Govt. of India - Broadcasted on 12 November 2008
- Delivered lecture on R&D projects of DST at the training Programme on pedagogy at MNIT-Jaipur on 11th of October, 08.

Consultancy/Projects

- Expert Member for Grading of engineering colleges of Haryana State. A project of DTE, Govt. of Haryana
- In the panel of experts for NBA, AICTE, Govt. of India- Executed by M/s EQUATE
- Consultancy for NBA provided to:
 - LBS college of engineering, Kasarkod, Kerala
 - DAV institute of Engineering, Jalander, Panjab
 - KIIT, Gurgaon- Haryana
 - Harlal Institute of Management, NOIDA- UP
 - Rural Engineering college, Bhalki, Karnataka
 - Adesh Institute of Engineering & Tech. Faridkoy, Panjab
 - Delhi Inst. of Tool Engineering, Wazirpur, Delhi Govt. Delhi
 - BSA Inst. of E&T, Allahpur, Faridabad, Haryana
 - Lingaya Inst. of E&T, Faridabad, Haryana
 - Gold Field Inst. of E&T, Faridabad, Haryana
- Consultant for establishing of polytechnics at Nagaland- A project of World Bank and GOI
- Consultant for establishing of Galaxy Global University at Karnal, Haryana
- **Analysis and control application of Neuro Fuzzy Systems** as a part of dissertation for the award of the degree of Master of Technology in Electrical Engineering (Instrumentation and Control).
- **Study on fuzzy theory application** for the fulfillment of M. Tech 2nd semester project.
- **Energy Auditing of low tension Motors** at NTPC Badarpur, New Delhi with especial emphasis on finding out new method for energy conservation in low cost tension motors.
- Practical training in **Electric loco Shed** Ghaziabad (U.P.) in various sections.

As a resource person

- **Designed the syllabus** for MDU, Rohtak “**New and Renewable Energy Resources.**”
- **Science & technology communication through puppet:** Discussion & development of scientific Scripts, S& T concepts, scientific thoughts & awareness. Catalyzed & supported by NCSTC, DST, Govt. of India at Gaya, Patna (Bihar), Ghaziabad, Haridwar (U.P.) & Imphal (Manipur).
- **Nature Orientation Training Program:** an awareness program for School children, where a number of activities conducted related to Environment & discussed scientific

concepts. Catalyzed & supported by RVPSP, DST, Govt. of India, New Delhi at Goa & BalBhawan New Delhi.

- **Science Exhibition:** Conducted Science Quiz, Essay, Debate & face-to-face interaction with the children of different District of Uttaranchal at ShayaldeDistt. Almoda from 22nd to 24th May 2003. Catalyzed & supported by Department of science & technology, Govt. of India.

Awards

- Certificate of excellence for the session 2011-12 by Al-Falah School of Engg. & Tech, Dhauj Faridabad

As a Principal Investigator/Coordinator/ Organizing Secretary

- 2010 : National Workshop on Earth Science from 3-4 March 2010 at Brown Hills College of Engineering & Tech. Dhauj, Faridabad. Supported by Ministry of Earth Science, Govt. of India.
- 2008 : National science Day (NSD)-2008 on February 28, 2008 at AFSET, Catalyzed & Supported by RVPSP, DST, Govt. in India
- 2006 : 7th Books & LRs and National Science Exhibition in association with NPIU, MHRD, GOI and National BalBhawan, New Delhi.
- Organized National Workshop on Industry Institute Interaction (NWIII) at Pune, Bangalore and Hyderabad in association with NPIU, MHRD, GOI
- 2005 : National Science Exhibition in association with Jamia Millia Islamia, Central University at Jamia Campus. Catalyzed & supported by RVPSP DST, Govt. of India.
- Organized Campus-wide Networking Workshops at 5 different locations in India i.e. Pune, Jalandhar, Kolkata, Hyderabad and Chennai
- Organized E-Learning Workshops at Pune (Maharashtra), Pant Nagar (Uttaranchal), Hyderabad (Andhra Pradesh)
- 2004 : National Children Science Congress at Delhi and many other activities with RVPSP, DST, GOI
- 2003 : Distt. Level workshop on Science Communication through Puppet at Hardoi & Gaya from 3rd to 8th March & 19th to 24th April Organized by Science Aur Kainat Society of India. Catalyzed & Supported by NCSTC DST, Govt. of India.

- 2002 : Distt. Level Nature orientation program at National BalBhawan, New Delhi (27th to 30th Jan. & 30th Jan. to 2nd Feb.) Catalyzed & supported by NCSTC DST, Govt. of India.
- 2001 : Distt. Level Nature orientation program at Jehanabad Bihar (14th Feb. to 17th Feb.) Catalyzed & supported by NCSTC, DST, Govt. of India.
- 2000 : BiharState level workshop on Science Communication through Puppet (25th May to 31st May) at Patna. Organized by Science AurKainat Society of India.
- : National Science Exhibition-2000 (from 7th to 10th Feb. 2000). Organized by Science AurKainat Society of India. Catalyzed & Supported by NCSTC, DST, Govt. of India.
- 1999 : **ChhattraDiwas** organized by Science AurKainat Society of India at **ArquamAcadmi Sr. Sec. School, BallabhGarh, Haryana**, from 7th to 10th Feb. 1999 (on occasion of Birth anniversary of Dr. Zakir Hussain, former President of India).
- 1998 : ChhattraDiwas from 7th to 10th Feb. at JamiaMilliaIslamiaNew Delhi, Catalyzed & supported by NCSTC, DST, Govt. of India.
- 1997 : National Science Activities camp for the Participants of **Kudratnama Quiz (A national level program conducted by August 6 TV)** from 5th to 16th Jan. at National BalBhawan New Delhi and Conducted the Survey in around 2000 school of union territory of Delhi.
- 1996 : South Delhi Children Science Congress at DevSamajModren Public School New Delhi.
- : National science Day, Organized by Science AurKainat society of India at Jamia Nagar, New Delhi from 7th to 10th Feb.1996.
- 1995 : National science Exhibition from 8th to 10th Feb.1995 at Ansari Auditorium, JamiaMilliaIslamia, New Delhi.
- 1994 : Worked as a leader of a team of 30 volunteers to give local support to National Children Science Congress at Bhartyam Gram, Nizamuddin, New Delhi from 26th to 31st Dec.1994.

Participated

- 2011 : Staff Development Programme (SDP) on Recent Advances in Electrical power and Energy systems at JamiaMilliaIslamia, F/oEngg. &Tech, Dept. Of Electrical Engg, N. Delhi, December 9-22, 2011
- 2009 : Attended Master Resource Person Workshop on **Total Solar Eclipse**

at Guru Nanak Dev University-Amritsar from 29 June to 1 July 09

Staff development programme on Solar & Wind Energy, Theory & Practice attended for 15 days from 27 February to 12 March 2009 at MANIT-Bhopal

2008 : Member editorial board of SCAN Tech-2008-09, An annual magazine of AFSET

2007 : Workshop on personality development and communication skills organized at AFSET from 10-17th of July, 2007

Campus Wide Networking training at Intec Infonet Pvt. Ltd., New Delhi from January to March 07

2006 : Attended two days National workshop on Industry Institute Interaction at College of engineering- Pune from 27 to 28 April-06

2004 : Member organizing committee of regional Conference on EMERGING TECHNOLOGY IN INDIA at GLA Inst. of Tech. Mathura from 25 to 26 January- 2004

2000 : Participate in Launching function of **Partnership between Europe and Asia for cleaner Environment** on 1 June 2000 at New Delhi

1999 : Master Resource person Training Program for Nature Study Camp at Chennai

1996 : Master Resource Person Training Program on Puppetry for Science and Technology Communication at Pune.

1995 : **World Summit for social Development at New Delhi** and discussed social aspect like Population, HIV/AIDS and Education etc. on 9 May, 1995

1994 : Worked as a volunteer in National Children Science Congress at Bhartyam Gram, New Delhi.

1993 : Worked as a volunteer in National Children Science Congress at Bal Bhavan, New Delhi.

1992 : Participated in a **Largest science popularization movement in India** Bharat Jan Vigyan Jatha at New Delhi.

1991 : **Jawahar Lal Nehru National Science Exhibition** for children at Cochin, Kerala.

1990 : **JawharLal Nehru National Science Exhibition** for children at Patna.

1989 : AIR & National Science & Technology Communication Competition.

References

1. Prof MajidJamil, HoD, Dept of Electrical Engineering, JamiaMilliaIslamia., New Delhi. majidjamil@hotmail.com, **Mobile- 9313462108**
2. Prof Rajnish Prakash, Ex Principal, PanjabEngg College and Expert World Bank.rajnish.prakash@gmail.com, **Mobile 9810504083**
3. Prof Pankaj Chandna, Professor, Mechanical Engineering Dept, NIT Krukrhestra, Haryana. pchandna08@gmail.com, **Mobile 9896074922**
4. Dr. Syed Imtiaz Ahmad, Professor Emeritus, EMU Chair, JIT Operations Management Committee (Governing Board), Canada, imtiazahmad@rogers.com
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Place: New Delhi

Dated: November 9, 2019

Prof. (Dr.) Khwaja M. Rafi