

CURRICULUM VITAE

Dr. Dinesh K. Sharma

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EXPERIENCE: (Total: 15+ years, Teaching: 13.5 years, Industry & Research: 1.5 year)

- Presently working as Professor & Dean at School of Engineering & Technology, IIMT University, Meerut (U.P.) from 12-08-2020 to till date.
- Worked as Deputy Director at National Ecology and Environment Foundation (NEEF, working towards Sustainable Development Worldwide), Mumbai.
- Worked at Vidya College of Engineering, Meerut (India) as Professor & Dean Academics from 05-09-2016 to 31-05-2019.
- Worked at Dewan V.S. Institute of Engg. & Tech., Meerut (India) as Assoc. Professor and Head in ECE & EE department from 03-08-2015 to 17-05-2016.
- Worked at Sir Padampat Singhanian University, Udaipur as Asst. Professor in ECE department from 01-07-2010 to 21-05-2015.
- Worked at Echelon Institute of Technology, Faridabad as Asst. Professor in ECE department from 01-05-2008 to 21-12-2009.
- Worked at Manav Rachna International University, Faridabad as Sr. Lecturer in ECE department from 19-06-2007 to 30-04-2008.
- Worked at Gold Field Institute of Tech. & Mgmt. Faridabad as Lecturer in ECE department from 22-06-2006 to 13-06-2007.
- Worked on Project of Maximum Power Point Tracker (MPPT) in Photovoltaic System as Project Fellow at National Institute of Solar Energy (formerly Solar Energy Centre), Ministry of New and Renewable Energy (MNRE, GoI), Gurgaon from 14-02-2006 to 21-06-2006.
- Worked at Lingaya's Institute of Mgmt. & Tech., Faridabad as Lecturer in ECE department from 26-08-2004 to 09-02-2006.
- Worked at Naina Semiconductor Limited, New Delhi as Graduate Engineer Trainee (GET) from 10-07-2003 to 19-08-2004.

ACADEMIC QUALIFICATION:

Degree/Course	Passing Year	Percentage of Marks	Subjects/Topic of Study	University/Board
Ph.D. (Engineering)	2015	-	Optimization of the Efficiency of Solar Photovoltaic System using Improved Maximum Power Point Tracker (MPPT)	S.P.S. University, Udaipur (Rajasthan)
M.E.	2006	75.00 %	Power Electronics, Electrical Machines & Drives	M.D. University Rohtak (Haryana)
B.E.	2003	68.12%	Electronics & Communication Engg.	M.J.P.R. University Bareilly (U.P.)
Intermediate	1997	63.40%	Physics Chemistry, Maths. Hindi, English	U.P. Board
High school	1995	68.83%	Science, Maths, Biology, S.St., Hindi, English	U.P. Board

ACHIEVEMENT/AWARD:

- Young Researcher Fund (YRF) of JPY 100,000 (One Lakh Japanese Yen) awarded by program committee of WCPEC6 for presentation at **6th World Conference on Photovoltaic Energy Conversion (WCPEC6)** held in **Kyoto, Japan** held during November 23-27, 2014.

BOOKS AUTHORED:

- *Non-Conventional Energy Resources*, 2006 (First Edition) S.K. Kataria Publications, Delhi.
- Third Edition (2012) of the book entitled “*Non-Conventional Energy Resources*” has been released and published by S.K. Kataria & Sons, Delhi. This book is a part of the academic curriculum of Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Gujarat Technological University, Ahmadabad, Rajasthan Technical University, Kota and Uttaranchal Technical University, Dehradun and some other reputed universities.
- *Solar Energy: Concepts, Technologies and Applications*, S.K. Kataria & Sons Publications, Delhi. (in Process)

RESEARCH PROJECTS:

- Worked on Project of Maximum Power Point Tracker (MPPT) in Photovoltaic Systems at Solar Energy Centre, Ministry of New and Renewable Energy (MNRE), Govt. of India, Gwalpahari (Gurgaon).
- Research project entitled “Development and Implementation of Maximum Power Point Tracker (MPPT) for Optimizing the Efficiency of Renewable Energy System (Solar Photovoltaic system) for Rural Electrification in Rajasthan” has been sanctioned for financial support by Department of Science & Technology (DST), Govt. of Rajasthan.
- Guided a R&D project on RF based Remote Energy Metering System for Secure Meters Limited, Udaipur.

RESEARCH PROFILE:

Google Scholar Citation Index (June'2020): 58, h Index: 3, i10 Index: 1

Google Scholar Link:

<https://scholar.google.co.in/citations?user=aZ3bVmYAAAAJ&hl=en&authuser=1>

Research Gate (RG) Score (June'2020): 5.86; Citations: 73

RG Link: https://www.researchgate.net/profile/Dinesh_Sharma65

CONFERENCE ORGANIZED:

- 1) Worked as Convener in National Conference on Science, Technology, Engineering and Management for Sustainable Development of Society (STEM-SDS) from 23-24 November 2018 at Vidya College of Engineering, Meerut (India)
- 2) National Conference on Women Enterprises in India (NCWEI'17) during 23-24 June 2017 organized by Vidya College of Engineering, Meerut (India)

INVITED TALKS:

- 1) Delivered a talk on “Solar Energy: Technologies, Business Opportunities and Govt. Schemes” for two days Entrepreneurship Development Programme at Moradabad organized by MSME, PPDC-TDC, Meerut (Ministry of MSME, GoI)
- 2) Conducted hands-on-training on “MS Excel: Powerful tool for Data Analysis” to Directors and Managers of MSME-TDCs of various parts of India, organized by MSME, PPDC-TDC, Meerut (Ministry of MSME, GoI)
- 3) Delivered a talk entitled by “Role of Solar Energy for Sustainable Agriculture” during scientific session of 5th Global Outreach Conference on “Modern Approaches for Smart Agriculture” (MASA-2020) organized by School of Biological Engineering & Life Sciences at Shobhit University, Meerut (INDIA) during February 28-29, 2020.

RESEARCH PUBLICATIONS:

International Journal:

1. Youssef Mallal, **Dinesh K Sharma**, Lhoussain El Bahir, Touria Hassboun (2020), “A novel temperature prediction-based approach for realistic performance analysis of different electrical PV panel configurations”, Solar Energy, Elsevier (SCI-Web of Science Journal, I.F. = 4.608) (Under Review).
2. Youssef Mallal, **Dinesh K Sharma**, Lhoussain El Bahir, Touria Hassboun (2020), “Realistic Performance Analysis of Shade Dispersion Techniques Using a Novel Temperature Prediction-based Approach for Efficient Solar PV System”. Energy Conversion and Management, Elsevier (SCI-Web of Science Journal, I.F. 8.208) (to be communicated)
3. **D.K. Sharma**, Youssef Mallal (2020), “Zero Energy Building as Key Enabler for Sustainable Development”, Journal of Energy Storage, Elsevier (SCI-Web of Science Journal, I.F. 3.517) (to be communicated)
4. **D.K. Sharma**, G. Purohit (2015), “Differential Power Algorithm based Maximum Power Point Tracker (MPPT) for Efficiency Maximization of Standalone Solar PV

System”, Journal of Energy in Southern Africa **26(2)**, 103-109, (SCI, Web of Science Journal, I.F. = 1.016)

5. **D.K. Sharma**, G. Purohit (2014), “Maximum Power Angle (MPA) Based Maximum Power Point Tracking (MPPT) Technique for Efficiency Optimization of Solar PV System”, International Journal of Renewable Energy Research, **4(3)**, 10-15, (ESCI Journal, Web of Science)
6. **D.K. Sharma**, G. Purohit. (2014), Hybrid Control Method for Maximum Power Point Tracking (MPPT) of Solar PV Power Generating System. *Aust. J. Basic & Appl. Sci.*, **8(3)**, 255-262, 2014. (Scopus Journal)

Book Chapter:

- **D.K. Sharma**, G. Purohit (2014), “Improving the Livability of Cities – the Role of Solar Energy in Urban and Peri-urban Areas”, *The Security of Water, Food, Energy and Liveability of Cities: Challenges and Opportunities for Peri-Urban Futures Series*”, Water Science and Technology Library, Volume 71, pp 151-162, **Springer**, The Netherlands, 2014. (ISBN 978-94-017-8877-9)

International Conference:

1. **D.K. Sharma** (2019), “Sustainable Lifestyle for Mitigating Climate Change by Single- use Plastics” Young Scientists’ Conference (YSC) held at BBCC, Kolkata during November 5-8, 2019. IISF-YSC was supported by **Vigyan Bharati (VIBHA)**, **DST (MoST) and Vigyan Prasar**.
2. **D.K. Sharma** (2018), “Energy Conversion Systems in Human Body”, abstract book of 4th India International Science Festival (IISF) - Young Scientists’ Conference (YSC) held at IGP, Lucknow during October 5-8, 2018. IISF-YSC was supported by **CSIR and DBT, Govt. of India**
3. **D.K. Sharma** (2017), “Assessment and Implication of Solar Energy based Energy Efficient Products for Sustainable Agriculture”, abstract book of XIII Agricultural Sciences Congress 2017 (XIII ASC 2017), held at **University of Agricultural Sciences (UAS), Bangalore** during February 21-24, 2017.
4. **D.K. Sharma** (2016), “Study and Analysis of 7th Sustainable Development Goal (SDG7) for Sustainable and Clean Energy Supply for Unelectrified Communities”, abstract book of India International Science Festival (IISF) - Young Scientists’ Conclave (YSC) held at **CSIR-NPL, New Delhi** during Dec 8-11, 2016.
5. **D.K. Sharma**, G. Purohit (2014), “Analysis of the Effect of Fill Factor on the Efficiency of Solar PV System for Improved Design of MPPT”, technical digest of 6th World Conference on Photovoltaic Energy Conversion (WCPEC-6), **Kyoto, Japan**, 23-27 November 2014.
6. **D.K. Sharma**, G. Purohit (2014), “Nature Inspired Solar PV Panel Tracking using Sunflower based Heliotropism for Higher Efficiency of Solar PV Power System” technical digest of 6th World Conference on Photovoltaic Energy Conversion (WCPEC-6), **Kyoto, Japan**, 23-27 November 2014.
7. **D.K. Sharma**, G. Purohit (2013), “Fill Factor Based Maximum Power Point Tracking (MPPT) for Standalone Solar PV System”, proceedings of the 4th International

- Conference on Advances in Energy Research 2013 (ICAER'13) held during 10-12 December 2013 at **Indian Institute of Technology Bombay (IITB)**, Mumbai, India.
8. **D.K. Sharma**, G. Purohit (2012), "Advanced Perturbation and Observation (P&O) based Maximum Power Point Tracking (MPPT) of a Solar Photo-Voltaic System" proceedings of the 5th *India International Conference on Power Electronics 2012 (IICPE'12)* held during 6-8 December, 2012, Delhi Technological University (DTU), Delhi, India. The paper is abstracted by **IEEE Xplore**.
 9. **D.K. Sharma**, Akhilesh Kumar Dubey, "Modeling and Performance Analysis of IEEE 802.11 Ad hoc WLAN" proceedings of International Conference on VLSI and Communication (ICVcom 2009), Saintgits College of Engineering, Kottayam (Kerala), India, 16-18 April 2009.
 10. **D.K. Sharma**, Dr. H.M. Rai "Development of Electronic Drive (e-Drive) Operated by Solar Car" proceedings International Conference on Advances in Electronic Engineering (ICAEE 2006) at K C College of Engg. Nawanshahr (Punjab), India, 16-17 December 2006.

International Workshop:

D.K. Sharma, U.R. Singh, Vinod Patidar and G. Purohit, "Improving the Livability of Cities-the Role of Harnessing Solar Energy in Urban and Peri-urban Areas" proceedings of International workshop on "Urbanization of Peri-urban Regions: Challenges and Opportunities for Security of Water, Food and Livability of Future Cities" held at College of Technology and Engg. (CTAE), MPUAT, Udaipur (Rajasthan), India. (*An Indo Australian Collaborative Workshop*)

National Conference:

1. **D.K. Sharma**, "Development of e-Drive operated by Solar Photovoltaic (SPV) using MPPT" proceedings of National Conference on Recent Advances in Electrical Engineering (RAEE-2008), National Institute of Technology (NIT), Hamirpur (H.P.), India, December 26-27, 2008.
2. **D.K. Sharma**, Dr. H.M. Rai, "Efficiency Enhancement of Solar Photovoltaic Plant using Maximum Power Point Tracker (MPPT)" proceedings of National Conference on Technological Innovations (NCTI-2008), BRCM College of Engg. & Tech., Bahal (Haryana), India October 11-12, 2008.
3. **D.K. Sharma**, Dr. H.M. Rai, "Efficient Use of Solar Power in Electrical Utilities" proceedings of National Conference on Advances in Power Systems and Energy Management (APSEM-2008), Chitkara Institute of Engg. & Tech., Rajpura, Chandigarh (Punjab), India, March 1-2, 2008.
4. **D.K. Sharma**, Dr. H.M. Rai, Dr. P.R. Sharma, "Improving the Performance of Solar Energy Converter" proceedings of National Conference on Advances in Electrical Engineering (AEE-2006), Madhav Institute of Technology and Science (MITS) Gwalior, (M.P.), India, pp 393-397, November 29-30, 2006
5. **D.K. Sharma**, Dr. H.M. Rai, "Performance Analysis of Maximum Power Point Tracker for Photovoltaic System" proceedings National Electrical Engineering Conference (NEEC-2006), Guru Nanak Dev Engineering College (GNDEC), Ludhiana (Pun-jab), India, 11th August 2006, pp 65-69.

6. **D.K. Sharma**, “Rural Electrification by using Solar Pond” proceedings National Conference on Sustainable Energy Development in Rural Areas at Lingaya’s University, Faridabad (Haryana), India, 19-20 January, 2005.
7. **D.K. Sharma**, U.R. Singh, Vinod Patidar and G. Purohit, “Perturbation and Observation based Maximum Power Point Tracker of Photo-voltaic Systems” proceedings of National Seminar on “Power Generation from Renewable Energy Sources (PGRES)” held at College of Technology and Engg. (CTAE), M.P. University of Agri. and Tech. (MPUAT), Udaipur (Rajasthan), India, 2-3 February 2012.

PROFESSIONAL MEMBERSHIP:

- International Society for Environmental Information Sciences (ISEIS), Canada
- International Association of Engineers (IAENG), Hong Kong (Lifetime)
- ICTP Network on Renewable Energies, ICTP, Trieste, Italy.
- Asia Pacific Institute of Science and Engineering (APISE), Hong Kong.
- Vigyan Bharati (Lifetime), India
- Solar Energy Society of India (SESI), India
- ERA-Net Smart Energy System (SES), Germany (Funded by European Union’s Horizon 2020 Research and Innovation Programme)

ADDITIONAL/SPECIAL RESPONSIBILITIES:

Working as **Mentor of Change (MoC)** appointed by **NITI Aayog (Govt. of India)** for Atal Tinkering Lab (ATL) at IIMT Academy, Meerut (Uttar Pradesh)

Convener:

- 1) Techwiz’17 and Techwiz’18, a National Level technical fest organized by Vidya College of Engineering, Meerut (India)
- 2) Vigilance Awareness Week organized by Vidya College of Engineering, Meerut (India) during 30 October -04 November 2017
- 3) College Academic Monitoring Committee
- 4) College Proctorial Board
- 5) SC/ST Grievance Committee
- 6) Students’ Grievance Committee
- 7) Faculty Grievance Committee
- 8) Flying Squad (during University/BTE Exams)

Co-Convener:

- 9) Swachhata Pakhwara organized by Vidya College of Engineering, Meerut during 1-15 September 2017
 - 10) Rozgar Mela (in Association with MHRD, GoI) organized by Vidya College of Engineering, Meerut on 31st August 2018.
- **Centre Superintendent:** Functioned as Centre Superintendent at Delhi College of Technology and Management (DCTM), Palwal (Haryana) during MD University, Rohtak Examination for the session Even 2008-09. (Appointed by M D University, Rohtak)
 - **Deputy Centre Superintendent:** Functioned as Deputy Centre Superintendent at Echelon Institute of Technology, Faridabad (Haryana) during MD University, Rohtak Examination for the session Odd 2007-08. (Appointed by M D University, Rohtak)

- **Chaired** a technical session during 5th Global Outreach Conference on “Modern Approaches for Smart Agriculture” (MASA-2020) held on February 28-29, 2020.

JOURNAL REVIEWERSHIP:

1. IEEE Access (SCI, Web of Science)
2. International Journal of Sustainable Engineering (IJSE), Taylor and Francis Group, UK (ESCI, Web of Science)
3. International Journal of Renewable Energy Research (IJRER), Turkey (ESCI, Web of Science)
4. International Journal of Energy Optimization and Engineering (IJEEO) (ESCI, Web of Science)
5. Journal of Clean Energy Technology (JOCET), Singapore. (IET, INSPEC)
6. International Journal of Energy Engineering (IJEE), Scientific and Academic Publishing (SAP), USA
7. American Journal of Energy and Environment (AJEE), Scientific and Academic Publishing (SAP), USA
8. APISE (Asia Pacific Institute of Science and Engineering) Conference Papers.

Workshop/FDP/STTP/Seminar/Conference attended: 10

1. Attended UNCCD/COP - UNCCD-COP14: United Nations Convention to Combat Desertification - Conference of the Parties to the Convention and meetings of subsidiary bodies during 2-13 September 2019 at India Expo mart Greater Noida.
2. Participated in One-week Faculty Development Programme sponsored by Dr. A.P.J Abdul Kalam Technical University, U.P. (under TEQIP-III scheme) on “Applied Thermodynamics and its Applications in Power Plant Engineering” during 22-26 October 2018 at Vidya College of Engineering, Meerut.
3. Participated in 10th International Conference on Theory & Practice of Electronic Governance (ICEGOV 2017) organized by Ministry of Electronics & IT (MeitY), Govt of India from 7th to 9th March 2017 at Ashok Hotel, New Delhi.
4. Participated in Two weeks’ workshop on “Introduction to Research Methodologies” organized by IIT Bombay from 25-06-12 to 04-07-12 at Sir Padampat Singhanian University, Udaipur.
5. Participated in “LaTeX learning session” organized by IIT Bombay on 01 June, 2012 at Sir Padampat Singhanian University, Udaipur.
6. AICTE sponsored National Conference on “Advanced Manufacturing Processes” during 19-20 February 2010 at Noida Institute of Engineering & Technology, Greater Noida (UP).
7. National Seminar on “New Paradigm for Engineering Education in Changing Global Scenario” during 4th May 2010 at Noida Institute of Engineering & Technology, Greater Noida (UP).
8. Attended AICTE-ISTE sponsored, One-week Short Term Training Programme on “AUDIOTRONICS” during 16-20 July 2008 at Lingaya’s Institute of Management & Technology, Faridabad.
9. Participated in Two-week Faculty Development Programme sponsored by AICTE on “Renewable Energy Sources” during 9-21 July 2007 at Manav Rachna College of Engineering, Faridabad.

REFERENCES:

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3. Dr. D P Kothari
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4. Dr. Vinod K Sharma
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Mobile: +91-9869254479

PERSONAL DETAILS:

Father's Name : Shri Omprakash Sharma

Gender : Male

Date of Birth : 10th October 1981

Marital Status : Married

Date:

Place:

(Dr. Dinesh K. Sharma)