Curriculum vitae

Mr. Jeetendra Prasad
Senior Research Fellow
Department of Electrical Engineering,
Motilal Nehru National Institute of Technology Allahabad
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H-Index: 3, i10-index= 1, Total citation = 39

Education	**Ph.D.**	**Electrical Engineering**	**Motilal Nehru National Institute of Technology Allahabad, Uttar Pradesh, India, under "Visvesvaraya PhD Scheme", Deity, Government of India.**	**Thesis Submitted CPI: 8.20**	**2021**
	M.Tech	**Energy, Power Electronics, Electric Drives, Renewable Energy**	**Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh, India**	**CGPA: 8.61 / 10**	**2013**
	B.Tech	**Electrical and Electronics Engineering**	**Galgotia College of Engineering and Technology, Greater Noida, Uttar Pradesh, India**	**65.48%**	**2011**
	Intermediate	**Math, Physics, Chemistry**	**Board of Intermediate Education, Utter Pradesh, India**	**71.40%**	**2005**
	SSC	**Math, Science, English**	**Board of Secondary Education, Utter Pradesh, India**	**62.00%**	**2003**

Area of Research:

- **Renewable and Sustainable Energy, Microbial Fuel Cell, Power Electronics, Low Power Energy Harvesting, DC-DC Converters. Electrical Machine, Electric Drive.**

Research Experience:

Research work done in Electrical Engineering department at Motilal Nehru National Institute of Technology Allahabad, Uttar Pradesh, India from January 2016 to 2021.

Ph.D Thesis Title: Microbial Fuel Cell Energy Harvesting and Power Management for Consumer Application

Supervisors: Prof. Ramesh Kumar Tripathi

Description:

- Sediment Microbial Fuel Cell Assembly
- Energy Harvesting from Sediment Microbial Fuel Cell Using Different Electrodes.
- Series connection of Sediment Microbial Fuel Cell.
- Series-Parallel connection of Sediment Microbial Fuel Cell.
- Developed a Power Management System for Sediment Microbial Fuel Cell for 3V supply.
- Developed a Power Management System based on SMFC for Cell phone battery charging.
- Developed a Power Management System based on SMFC for UPS battery charging.
- Developed an inverter for converting the DC voltage of SMFC into AC for Lighting.

M.Tech Thesis Title: Green Electricity production from sediment and plant Microbial Fuel Cell

Supervisor: Dr.K. Sudhakar

Publications

Patents

1. **Jeetendra Prasad and Ramesh Kumar Tripathi, "An Energy Harvesting, Storage and Delivery System," Complete Patent Application No.: 202011042654 and dated 30 September, 2020.**

SCI Journals

		Impact factor
1.	Jeetendra Prasad and Ramesh Kumar Tripathi, "***Scale-Up and Control the Voltage of Sediment Microbial Fuel Cell for Charging a Cell Phone,***" Biosensors and Bioelectronics, 172 (2021) 112767.	**10.257**
2.	Jeetendra Prasad and Ramesh Kumar Tripathi, "***Effect of Sediment Microbial Fuel Cell Stacks on 9V/12V DC Power Supply***," International Journal of Hydrogen Energy, 2020.	**4.939**
3.	Jeetendra Prasad and Ramesh Kumar Tripathi, "***Voltage control of sediment microbial fuel cell to power the AC load***," Journal of Power Sources, 450, 227721, 2020.	**8.247**
4.	Jeetendra Prasad and Ramesh Kumar Tripathi, "***Energy Harvesting from Sediment Microbial Fuel Cell to Supply Uninterruptible Regulated Power for Small Devices***," International Journal of Energy Research, 43(2):1-11, 2019.	**3.741**

SCOPUS Journals

1. Jeetendra Prasad and Ramesh Kumar Tripathi,"***Energy Harvesting from Sediment Microbial Fuel Cell Using Different Electrodes,***" International Journal of ChemTech Research, 2018,11(07),219-225.
2. Jeetendra Prasad and Ramesh Kumar Tripathi, "***Plant Microbial Fuel Cell Energy Harvesting Boost Converter With/Without the Super Capacitor***", Majlesi Journal of Mechatronic Systems, vol. 6, no. 4, pp. 7-13, Dec. 2018.
3. Jeetendra Prasad and Ramesh Kumar Tripathi, "***Scale up sediment microbial fuel cell for powering Led lighting***," International Journal of Renewable Energy Development, 2018, 7(1), 53-58.
4. Jeetendra Prasad and K. Sudhaker, "***Electricity Generation from River Water Sediments using Microbial Fuel Cell***," An International Research Journal of Basic and applied Sciences, SCIENCIA ACTA XAVERIANA (SAX), Biannual Special Issue, December 2012. ISSN 0976-1152.

International Conferences

1. Jeetendra Prasad and Ramesh Kumar Tripathi, "***Sediment Microbial Fuel Cell Energy Harvesting Power Management System for 9V/12V DC Power Supply***," 11th International Exergy, Energy and Environment Symposium, SRM Institute of Science & Technology, Chennai, India**.** 14 - 18 July 2019.
2. Jeetendra Prasad and Ramesh Kumar Tripathi, "***A Dc-Dc Boost Converter for Sediment Microbial Fuel Cell Energy Harvesting***," 2nd IEEE International conference on Power Electronics, Intelligent Control and Energy systems, Delhi Technological University, Delhi, Oct 22, 2018 - Oct 24, 2018.
3. Jeetendra Prasad and Ramesh Kumar Tripathi, "***Voltage Drop Management and Step Up the Voltage of Sediment Microbial Fuel Cells,"*** 8th IEEE India International Conference on Power Electronics (IICPE), JAIPUR, India, 2018, pp. 1-6.
4. Jeetendra Prasad and Ramesh Kumar Tripathi, "***Series and hybrid connection of sediment microbial fuel cell for powering Led,"*** *14th IEEE India Council International Conference (INDICON)*, Roorkee, 2017, pp. 1-5.
5. Jeetendra Prasad and Ramesh Kumar Tripathi, "***Maximum electricity generation from low cost sediment microbial fuel cell using copper and zinc electrodes***," International Conference on Information, Communication, Instrumentation and Control (ICICIC), Indore, 2017, pp. 1-4.

Book

1. Jeetendra Prasad and K.Sudhaker, "***Plant Microbial Fuel cell for green electricity generation,"*** Lap lambert Academic Publishing (November 1, 2013), ISBN-10: 659450359, ISBN-13: 978-365945035.

Awards / Fellowships

1. **Gandhian Young Technology Innovation (GYTI) Awards 2020,** for the project titled **"Sediment Microbial Fuel Cell as a Renewable Power Source in Remote Area"** by Department of Science & Technology, Government of India.
2. **Visvesvaraya Ph.D Scheme for Electronics and IT** Government of India, Doctoral Fellowship January 2016-till date.
3. **MHRD Fellowship,** India for M.Tech degree, July 2011 to June 2013.

Teaching Experience:

1. 6 months experience as was a Visiting Faculty in Department of Electrical Engineering at MNNIT, ALLAHABAD from 03/08/2015 to 09/01/2016.
2. 1 year 6 months experience as an Assistant Professor in Department of Electrical Engineering at World College of Technology & Management, Gurgaon from 17/03/2014 to 01/08/2015.
3. 6 months experience as an Assistant Professor in Department of Electrical Engineering at Govt. Engineering Collage Bhopal (UIT-RGPV, Bhopal), Madhya Pradesh from 22/07/2013 to 01/01/2014.
4. 2 months experience as a JRF in Energy Center at IIT Delhi.

Subjects Taught/Laboratory Handled/Developed

UG Level: Utilization of Electrical Energy, Power Electronics, Electrical Machine, New & Renewable Energy Resources, Electrical Measurement, New & Renewable Energy Resources, Power Systems Analysis

Laboratory Developed: Set up various laboratories of Electrical Engineering at World College of Technology & Management, Gurgaon.

Laboratory Handled: Power Electronics and drives, Power Systems, Electrical Measurements, Electrical Workshop, Electrical Machines, and Control.

GATE in Electrical Eng.:

- **Three times GATE qualified (97.00 Percentile in 2020, 95.00 Percentile in 2015, and 94.00 Percentile in 2011)**

Software Proficiency:

- **Matlab, PSpice, LTspice, MS Projects, Power Point, Excel, Homer, PV Syst, PV Sol, Ret Screen.**

Short Term Courses/Seminar/ Workshop:

1. Attended workshop on, "Power Electronics and Renewable Integration for Consumer Applications" organized by M.N.N.I.T, Allahabad, India (16th Sept-20th Sept. 2020).
2. Attended workshop on, "Waste to bio-energy" organized by Sharda University, Greater Noida, Uttar Pradesh & MIT Aurangabad, India (28th June-04th July 2020).
3. Attended one week course on, "Modeling and Simulation of Renewable Energy Systems" organized by M.N.N.I.T, Allahabad & NITTR, Chandigarh, India (28th May-01st June, 2018).
4. Attended one week course on, "Soft Switched & Resonant DC to DC Converter Topologies & Their Control (161018D03)" organized by M.N.N.I.T, Allahabad, India (December 19-23, 2016).
5. Attended one week course on "Applications of Solar Energy and Photovoltaic" organized by IIT Delhi, India (December 12-18, 2012).
6. Attended Three days courses on "Solar Radiation Resource Assessment and Modeling" jointly organized by IIT Rajasthan, India and National Renewable Energy Laboratory, USA (August 7-9, 2012).
7. Attended two day workshop on "Renewable Energy for Sustainable Development" organized by MANIT, Bhopal, India (January 6-7, 2012).

Summer Training Program:

- **Attended a one month summer training program on "VLSI Design-2018 (Tools Xilinx, Synopsis/Cadence, EdwinXP, FPGA)" from 11th June to 9th July 2018 organized by Indian Institute of Information Technology, Allahabad.**

Achievements	• **About my innovative research shared by our honourable PM's 'Mann ki Baat' and by "Ministry of Education" at Twitter handle on 24 August 2020.** • **Media coverage of my Innovative Research Work "Sediment Microbial Fuel Cell as a Renewable Power Source in Remote Area" dated. 17 Aug 2020 by all Newspaper, News channels and Magazines.** • **Radio Talks on my innovative research Renewable Energy Source on "Indian Akshay Urja Day" on 20 August 2020.** • **https://www.hindustantimes.com/india-news/mnnit-scholar-s-achievement-shared-by-pm-modi-s-mann-ki-baat-twitter-handle/story-2PkmCAbv0HRCOJ9FAtYWAL.html** • **https://timesofindia.indiatimes.com/home/education/news/mnnit-research-scholar-gets-gyti-award-for-harnessing-electricity-from-riverbed-soil/articleshow/77603980.cms**
Invited Reviewer in Various Peer Reviewed Journals and Conferences:	1. International Journal of Electrical Engineering Education, SAGE Publishing 2. Science of the Total Environment, Elsevier 3. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Taylor & Francis 4. International Conference on Mechanical, Electric and Industrial Engineering (MEIE2020) 5. International Conference on Computational Performance Evaluation (ComPE-2020) 6. IEEE Sensors 2019

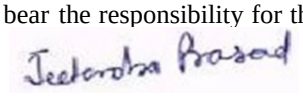
Professional Memberships:

- IEEE Student Member/ Power and Energy Society

References	**Prof. Ramesh Kumar Tripathi** Professor, Dept. of Electrical Engineering, Motilal Nehru National Institute of Technology Allahabad, Teliyarganj, Allahabad, Uttar Pradesh 211004, India. Email: rktripathi@mnnit.ac.in Mobile: +91- 9450621196	**Prof. Ravindra K. S.** Dean Academic and Professor, Dept. of Electrical Engineering, Motilal Nehru National Institute of Technology Allahabad, Teliyarganj, Allahabad, Uttar Pradesh 211004, India. Email: rksingh@mnnit.ac.in Phone No.: 09415014477	**Dr. Anil Kumar** Associate Professor and Associate Head, Department of Mechanical Engineering, Delhi Technological University, Shahbad Daulatpur Village, Rohini, Delhi, 11004 (INDIA). Email:dranilk76@gmail.com, Phone No.: +91-9425680448(M)
Personal Details	**Date of Birth:** 15th of July 1988 **Father's Name:** Mr. Ramkrit Prasad **Marital Status:** Married **Languages Known:** English & Hindi	**Correspondence Address:** 305, New Mehduri Teliyarganj, Prayagraj, Uttar Pradesh- 211004	**Permanent Address:** Vill- Shakkerpur, Post- Shahbazkuli Dist: Ghazipur Uttar Pradesh- 233227

Declaration

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.



PLACE: Allahabad **(JEETENDRA PRASAD)**

Date: 15-02-2021