



Qualification: M.tech.
Designation : Assistant Professor
Specialized Subject : Power Electronics & Drives

Personal Details:

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Birth Date 14-07-1987
Overview

Experience	: 10 Years 3 Months
Qualification	: M.Tech (Pursuing PhD)
Patents	: 01 (Published) + 01 (under process of filing)
International Publications	: 5 (4 Scopus Indexed + 1 NAAS: 4.36)
National Publications	: 1
Research Projects	: 6
UG project Guided	: 8
Students Guided	: 17
Trainings or Workshops Attended	: 08
Trainings or Workshops conducted	: 14
Member of Scientific Societies	: 04
Radio Talk(s)	: 01

Qualification

2008 - 2010	Master of Technology (Electrical Engineering) National Institute of Technology(NIT), Warangal, Telangana State, India
2004 - 2008	Bachelor of Technology (Electrical & Electronics Engineering), Sree Kavitha Engineering College, JNTU, Hyderabad, Telangana State , India

Experience

2019- Till Date **Pursuing PhD**

Adhoc Lecturer (July, 2010 to May 2011)
National Institute of Technology (NIT),Warangal, Telangana State.

Asst. Professor (December 2011 to April 2012)
Ashoka Institute of Engineering and Technology, Hyderabad, Telangana State.

Assistant Professor (May 2012 To Till Date),
Anand Agricultural University, Anand, Gujarat.

Patents **Patents recommended for filing by university: 02**

1. Patents Published: 01
Title: Apparatus and method for measuring angle of repose
(Application No.202021045467 A Date: 26/02/2021)
2. Patent filing under process: 01
Title: Design and development of Solar cooking and drying appliance

Publications

International Publication(s)

1. S. Jogunuri, F.T. Josh, Artificial Intelligence Methods for Solar Forecasting for optimum Sizing of PV systems : A Review(Full length paper), *Res. J. Chem. Environ.* 24 (2020) 174–180. [https://worldresearchersassociations.com/RJCESpecial\(I\)2020/32.pdf](https://worldresearchersassociations.com/RJCESpecial(I)2020/32.pdf) . (Scopus Indexed)
2. Jogunuri, S., & Josh F.T. (2019, December). Artificial Intelligence methods for solar forecasting for optimum sizing of PV systems: A Review-Abstract. In *2019 3rd International Conference on Renewable Energy and Sustainable Environment (RESE)* (pp. 114). ISBN: 978-93-5235-155-8 (Scopus Indexed)
3. Jogunuri, S., Mehra, V., & Vyas, D.K. (2019, November). Reconfiguration of solar photovoltaic panels for water pumping applications. In *2019 International Conference on Smart Systems and Innovative Technology (ICSSIT)* (pp. 717-721). IEEE. ISBN: 978-1-7281-2118-5 (Scopus Indexed)
4. Jogunuri, S., Kumar, R., & Kumar, D. (2017, August). Sizing an off-grid photovoltaic system (A case study). In *2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS)* (pp. 2618-2622). IEEE. (Scopus Indexed)
DOI:<https://doi.org/10.1109/ICECDS.2017.8389927>
5. Jogunuri, S. K., Kumar, N., Sayyad, F. G., Pinakin, V., & Patel, V. (2017). Performance Evaluation of Multi-Purpose Mixed-Mode Cabinet Solar Food Processor (Mcsfp). *Current Agriculture Research Journal*, 5(3), 404-413. DOI:<http://dx.doi.org/10.12944/CARJ.5.3.21>(NAAS Rating: 4.36)

National Publications

1. Gadariya, K., Patel, M., Jogunuri, S.K.(2018). Efficacy of solar hybrid dryers in the reduction of post harvest losses. In *2018 National symposium on "Doubling Farmers Income Through Technological Interventions" at 32nd ISAE National Convention.*

**Development &
Research Activities**

Research Activities

1. Experimental Investigation of energy yield from Bifacial Silicon Solar photovoltaic (PV) module and its comparison with monofacial solar photovoltaic module (PI).
2. Design and development of solar powered pellet machine for biogas slurry (Co-PI)
3. Implementation of effective Space Vector PWM scheme for a Multilevel Inverter for Stand-alone/off grid PV applications using MATLAB/Simulink(PI)
4. Design and Development of a dual purpose solar cabinet food processor. (PI)
5. Development of rapid measurement system for angle of repose of grains. (Member)
6. Design and development of disinfection tunnels: COVID-19

UG Projects Guided(8)

- 1) Energy yield estimation through bifacial solar PV system at CAET, Godhra (2020-21)
- 2) Evaluation of Drying Kinetics of Drumstick (*Moringa Olifera*) Leaves in Multipurpose Solar Cabinet Food Processor.(2019-20)
- 3) Parametric Analysis of Box Type Solar Cookers(2018-19)
- 4) Development of an electronic speed controller using pulse width modulation technique for differential speed applications (2017-18)
- 5) Design of an off Grid Photovoltaic System for RE Department, CAET, Godhra (2016-17)
- 6) Performance Evaluation of multipurpose mixed mode solar cabinet food processor (2016-17)
- 7) Performance Evaluation of Solar Food Processor (2015-16)
- 8) Design and Development of Solar Food Processor (2014-15)

***Trainings/Workshops/
Seminars/Conferences
Attended***

1. 4 weeks 41st Orientation Course from 10/11/2014 to 06/12/2014 at Academic Staff College, JNTU, Hyderabad.
2. Three weeks Summer School on “Strategies for Research Oriented Teaching” during 06/06/2016 to 25/06/2016 at Academic Staff College, JNTU, Hyderabad.
3. Three weeks Summer School on “Strategies for Research Oriented Teaching” during 06/06/2016 to 25/06/2016.
4. International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS) during 1st and 2nd August 2017.
5. International Conference on Smart Systems and Innovative Technology (ICSSIT) during 27- 29 November 2019 3rd International Conference on Renewable Energy and Sustainable Environment (RESE).
6. Online Faculty Development Program: Data Science for All organized between 27th July to 8th August 2020 at National Institute of Technology (NIT), Warangal.
7. Online Faculty Development Program: Artificial Intelligence-Machine Learning using Python organized between 12th July to 16th July 2021 at National Institute of Technology (NIT), Warangal.

***Trainings/Workshops/
Seminars/Conferences
Organized***

1. Organizing member for one-day workshop on “IPR Awareness” on 14th November 2019.
2. Organized two days’ workshop on “Machine Learning and Deep Learning with MATLAB” during 5th and 6th November 2019.
3. Core Academic Staff: 10 days ICAR short course on Renewable Energy for Environmental Protection and Energy Conservation” during 14th to 23rd October 2019.
4. Organizing member of a seminar on “Innovative Approaches for Teaching and Learning: A Pre-requisite for Human Resource Development and Institution Building” on 31st August 2018
5. Organizing member of two-day workshop (3rd and 4th June 2019) on Broad Subject Matter Area(BSMA) committee of ICAR for Agricultural Engineering and Technology, held at Anand Agricultural University, Anand.
6. Organized work shop on “Role of Young Generation in Nations Building” under Gender Champions Club on 8th March 2019(International Women’s Day) at CAET, Godhra.
7. Organized one-day work shop on “Awareness on Gender Issues and the Role of Young Generation” under Gender Champions Club in association with Gender Resource Centre-State Resource Centre for Women (supported by Women and Child Development Department-Govt. of Gujarat) on 16th February 2019.
8. Organized as Co-Director, Model Training Course on “Green Energy Initiatives in Agriculture to Combat Climate Change” sponsored by Directorate of Agriculture, Ministry of Agriculture, Cooperation & Farmers Welfare, Govt. of India and organized by Dept. of Renewable Energy Engineering during 17th to 24th of December 2018

9. One-day Workshop on Introduction of Statistical Techniques and Tools for Agricultural Engineers on 17th November 2018.
10. 52nd ISAE Convention at AAU Anand.
11. One Day Training on Thing Speak in IoT and App Designing in MATLAB on 15th March 2018.
12. Personality Development and Leadership Training program
13. One Day Farmer Training on “Applications and Advantages of Solar Energy in Agriculture” on 25th October 2016
14. Organized seminar on Gender Socialization on 05th March 2016

***Additional
Responsibilities***

- 1) SRC Staff Advisor: College Magazine Activities: 2020-21
- 2) Member: ICAR Accreditation –Self Study Report
- 3) Member: Disinfection Tunnels design and implementation at different locations of AAU.
- 4) SRC Staff Advisor: College Magazine Activities: 2019-20
- 5) Asst. Rector, Dr.A.P.J.Abdul Kalam Hall of Residence: New Boys Hostel) : (01/09/2019 to Till Date)
- 6) Member: Departmental Planning and Development Committee: BEAS
- 7) Co-Director: Model Training Course sponsored by Gol. (17th to 24th Dec. 2018)
- 8) SRC Staff Advisor-College Magazine (2018-19)
- 9) SRC Team Manager-Basket Ball Team (2018-19)
- 10) Dead Stock Verification In-Charge-Estate Division/Dept. (2018-19)
- 11) Organizing Committee Member: Technical Sessions (I/c Renewable Energy Tech. Sessions): 52nd ISAE Convention at AAU Anand.
- 12) Member: Institute of Eminence(IoE): Proposal Drafting Committee
- 13) Student Ready Program-Evaluation Committee Member (2017-2018)
- 14) Joint Secretary(Publication): Executive Council Member: CAET, Godhra Alumni Association
- 15) SRC Faculty Advisor-College Magazine (2017-18)
- 16) Member - Board of Faculty of Agricultural Engineering & Technology (23-01-2017 to June 2020)
- 17) Asst. Rector, Dr.A.P.J. Abdul Kalam Boys Hostel (01/09/2016 to 31/08/2019)
- 18) Nodal Teacher-Gender Champions Club (08/09/2015 to till date)
- 19) SRC Faculty Advisor-Indoor Games (2016-17)
- 20) SRC Faculty Advisor-College Magazine (2013-17)
- 21) Convenor-5th Deans Committee, Syllabus Review Committee (2016-17)
- 22) Editor- ICAR Self Study Report (13/02/2015 to 15/09/2016)
- 23) Asst. Rector, Aruni Boys Hostel (01/05/2013 to 30/04/2016)
- 24) Estate Officer (2012-13)

***Member of Scientific
Societies***

- 1) Life Member (Reg. ID:2586) – Solar Energy Society of India
- 2) Life Member(LM-11374) – Indian Society of Agricultural Engineers
- 3) Associate Member(AM1674466) – The Institute of Engineers (India)
- 4) Member (170434) – International Association of Engineers