

CURRICULUM VITAE

Srikant Misra

Ph.D.(Cont.), MIEEE, M.Tech, MISTE, MSES, IAENG, AMIE, LMCSI

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PROFILE:

Offering 12 + years of experience in Electrical Engineering field in terms of teaching including 3 years of Industrial exposure and having strong practical knowledge in Renewable energy, Energy conservation, Erection of Electrical Engineering related labs Expertise in Guiding of UG and PG level projects, Electrical maintenance works with a strong professional background.

PROFESSIONAL SKILLS:

- Perform state-of-the-art research to promote a sustainable built environment using my analytical, technical, leadership and communication skills
- Inspire and train students through creative teaching techniques, real applications, and guiding challenging innovative real time projects.

TECHNICAL SKILLS:

- Dynamic energy modeling, design and visualization of the design of Renewable energy sources, Smart Grids, Green and Energy efficient buildings, working knowledge of building energy codes: GRIHA Standards, Energy conservation and Auditing skills, skills in reducing Electricity and Energy bills.
- Software skills: Homer, RET screen, BEOpt, Energy +, Eco-Nirman, PSIM, MATLAB
- Lab and experimental experience: All electrical related labs including the experience in erecting and calibration of lab equipment, Knowledge in virtual Labs.

ACADEMIC PROFILE:

Course	School/College	Year of Passing	Percentage of marks
M.Tech ELECTRICAL (Power Electronics & Drives)	Biju Pattnaik University of Technology, Rourkela	2011	8.25 CGPA
B.Tech (Electrical & Electronics Engineering)	Biju Pattnaik University of Technology, Rourkela	2006	74.92%

OTHER QUALIFICATIONS:

- Certified training on Power Transmission & Distribution System in **NPTI, Bangalore**

EMPLOYMENT RECORD:

Organization	Period		Total Experience in Years	Designation	Nature of Work
	From	To			
Gandhi Institute of Engineering & Technology GUNUPUR, ODISHA	October 2009	Till Date	8 Year 1 months	Asst. Professor	Teaching , Research & Asst. HOD
Ramelex Pvt. Ltd	April 2008	October 2009	1 Year 6 months	Asst. Manager	Administrative responsibilities & Maintenance
BSES Rajdhani Power Ltd.	May 2006	Dec 2007	1 Year 7 months	GET	maintenance works in Energy management,

AFFILIATIONS:

S.No.	Name of the Professionals/ Learned Bodies/ Societies
1.	MSESI Solar Energy Society of India
2.	MISTE Indian Society for Technical Education
3.	IAENG International Association of Engineers
4.	AMIE Associate member of Institute of Engineers
5.	LMCSI Life member of Computer Society of India

RESEARCH & DEVELOPEMENT:

- **As Principal Investigator** Research proposal short listed in the Scheme for Young Scientists and Technologists by **DST/SYST**, Govt of India on the topic “Design of Green IOT enabled recycled buildings for Smart Sustainable living”
- Established a state of art IOT lab

WORKSHOP / FDP:

- Attended 05 days FDB sponsored by Ministry of Electronics and Information Technology on Advancement in signal processing & Optimization Techniques organized by IIT Patna from June 03’19 to June’07’19.
- Attended 05 days FDB sponsored by Ministry of Electronics and Information Technology on Deep Learning and Applications organized by IIT Patna from May27’19 to May 31’19.
- Attended 07 days FDB sponsored by Ministry of Electronics and Information Technology on Exploring Machine Learning for image and signal Processing using MATLAB organized by GIETU from May21’18 to May27’18.
- Attended 05 days FDB sponsored by Ministry of Electronics and Information Technology on Exploring Artificial Intelligence, Machine Learning, Data Analytics and Hadoop organized by GIETU from April30’18 to May04’18.

- Attended 06 days FDB sponsored by Ministry of Electronics and Information Technology on Foundation Program in ICT for Technical Education organized by PMMMNMTT, MHRD from Sept13'18 to Oct18'18.
- Attended 15 days AICTE sponsored Faculty development on GREEN TECHNOLOGY IN INDUSTRIAL WASTE MINIMIZATION at GIET GUNUPUR from 18th JAN 2018 to 31th JAN 2018.
- Attended 6 days Faculty development on Artificial Intelligence, Machine Learning, Data Analytics & Hadoop at GIET GUNUPUR from 30th April 2018 to 4th May 2018 in association with Tech Trunk Ventures Pvt Ltd Hyderabad.
- Attended 6 days Institute of Engineers India sponsored Faculty development on “exploring deep machine learning for Image and Signal Processing with MATLAB” at GIET GUNUPUR from 21st May 2018 to 27th May 2018.
- Attended 6 days QIP sponsored Faculty development on SMART GRID at VSSUT Burla from 4th May 2015 to 9th May 2015.
- Attended 6 days QIP sponsored Faculty development on AI based power system operation and control at VSSUT Burla from 23rd Nov 2015 to 28th Nov 2015.

INTERNATIONAL JOURNAL PUBLICATIONS:

1. Rakesh Sahu, Srikant Misra, Pratap Kumar Panigrahi, “Smart controller PV system for stochastic environmental condition” in **Materials Today: Proceedings**, Elsevier, 2021. doi: <https://doi.org/10.1016/j.matpr.2021.06.406>.
2. Smart battery management scheme for V2G based EV smart charger - A better approach of allocation of EV based distributed generation, Proceedings - 2020 **IEEE** International Symposium on Sustainable Energy, Signal Processing and Cyber Security, iSSSC 2020, 2020, 9358817
3. Intelligent Vehicle to Grid Based Plug-in Electric Vehicle with Cloud Computing, 2020 International Conference on Computer Science, Engineering and Applications, **IEEE-ICCSEA** 2020, 2020, 9132909
4. OPTIMAL DESIGN OF SOLAR TRACKING SYSTEM BY PVSYST. VSRD International Journal of Electrical, Electronics and Communication Engineering, Volume: VII Issue: X | Oct-2017
5. Design of Fuel cell based Co-generation systems: An approach for battery less Solar PV system. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2016.
6. An Economical and Comparative Analysis of Energy Conservation Requirements: An Approach to Get the Star Rating of Green Buildings. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2016.
7. Comparison Analysis of Green Building Materials and conventional Materials in Green Building Energy Efficiency Performance. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2015.
8. Validating Simulation analysis of Solar PV system assessment for residential buildings using HOMER software. International Journal of Engineering and Advanced Technology (IJEAT), Sept 2019, <https://www.scopus.com/sourceid/21100899502>,
9. Optimization Parameters in Passive Energy Technologies Plus its Execution. International Journal of Innovative Technology and Exploring Engineering (IJITEE), August 2019, <https://www.scopus.com/sourceid/21100889409>

10. Design and Simulation of Electrical & Thermal framework in a Green Building. **International Journal of Research and Analytical Reviews (IJRAR)**, 2018 **IJRAR December 2018, Volume 5, Issue 04** www.ijrar.org (E-ISSN 2348-1269, P- ISSN 2349-5138)
11. OPTIMAL DESIGN OF SOLAR TRACKING SYSTEM BY PVSYST. VSRD International Journal of Electrical, Electronics and Communication Engineering, Volume: VII Issue: X | Oct-2017
12. Design of Fuel cell based Co-generation systems: An approach for battery less Solar PV system. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2016.
13. An Economical and Comparative Analysis of Energy Conservation Requirements: An Approach to Get the Star Rating of Green Buildings. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2016.
14. Comparison Analysis of Green Building Materials and conventional Materials in Green Building Energy Efficiency Performance. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2015.
15. "Performance Estimation Of Tristate DC-DC Buck Converter With Fixed Frequency and Constant Switching Hysteresis Control " in International Journal of Application or Innovation in Engineering & Management (IJAIEEM), ISSN:2319-4847,vol-2,Issue No-6,2013; page no: 212-221.
16. "Implementation Of DC-DC Buck Converter With Switched Mode Control Technique For Enhancement of Efficiency of Solar Cell" in International Journal of Scientific & Engineering Research, ISSN:2229-5518, Volume 4, Issue No-7; page no: 1450-1458.
17. "Real Time Implementation of Induction Heating Principle using Full Bridge Inverter" in International Journal of Engineering and Innovative Technology (IJEIT), ISSN: 2277-3754,vol-2,Issue No-9,2013; page no: 305-310.
18. "Investigation Of Five-Level CHB as distribution Static compensator (DSTATCOM) in power system (PS) for compensation of reactive power and harmonics" in International Journal of Engineering Sciences & Emerging Technologies, ISSN:2231-6604, Volume 5, Issue No-1; page no: 32-40.
19. Design of Fuel cell based Co-generation systems: An approach for battery less Solar PV system. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2015.
20. An Economical and Comparative Analysis of Energy Conservation Requirements: An Approach to Get the Star Rating of Green Buildings. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2015.
21. Comparison Analysis of Green Building Materials and conventional Materials in Green Building Energy Efficiency Performance. International Research Journal of Engineering and Technology (IRJET), Volume: 03 Issue: 04 | April-2015.

INTERNATIONAL CONFERENCE PUBLICATIONS:

1. Published in **ICORE 2013**; International Congress On Renewable Energy International conference 27-29 Dec. 2013; “**Role of Software tools for Support of Renewable Energy Systems deployment**” ISBN : 978-93-82880-80-6’; pages: 84-89.

TEACHING METHODOLOGY:

- Self prepared Power point presentations with self prepared graphics and animations for all subjects.
- Counseling the students as a mentor according to their understanding level
- Innovative practices in teaching like self prepared demonstration kits & charts; complete subject condensed as a one page notes for academically poor students, Demo models, Guiding the students to attend national level paper and poster presentations by supplementing technical support.
- Maintaining own website for instant doubt clearance provision with provision of downloading of teaching materials by students.

ACADEMIC EXPERTISE:

- Experience as a Head of the department and monitoring the department activities.
- Vast experience in all electrical related lab establishments including PG level Power systems Lab
- Successful completion of documentation work to get the sanction of 4 PG level courses and all other AICTE & BPUT related works.
- Successfully Guided 15 UG level and 2 PG level projects
- Spot coordinator and Examinations In-charge and PG studies coordinator
- Coordinator of NBA, NAAC
- Convener of Technical events

ACADEMIC EXPERTISE:

- Installation and continues monitoring of solar lab with 1KW of experimental setup.
- Installation of IOT lab with Arduino UNO, Raspberry PI-3, Intel Galileo and cloud computing.

SUBJECTS TAUGHT:

UG Level:

Power Electronics
Electrical Drives
Control System Engineering
Electrical machines-I
Power systems-I
Power systems-II
Electrical Distribution systems
Basic Electrical Engineering

PG Level:

Power Converter I
Power Converter II
Electrical Drives

Labs Handled

Power Electronics Lab
Drives Lab
Machines Lab
Power systems Lab
Advanced Electrical Computational Lab
Control System Engineering Lab

STRENGTHS:

- ♦ Good communication skills
- ♦ Ability to deal with people, Team facilitator
- ♦ Good Analytical thinking and Decision making
- ♦ Eager to learn new things

PERSONAL PROFILE:

Name	:	Srikant Misra
Father's Name	:	Sripati Misra
Date of Birth	:	04.07.1985
Gender	:	Male
Marital Status	:	Married
Nationality	:	Indian
Languages known	:	Odiya, English, Hindi
Alternate E-mail	:	misra.srikant@gmail.com
Passport Number	:	G6511695
Hobbies	:	Reading, Listening music, Watching Cricket

REFERENCES:**1. Dr. U K Misra**

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Berhampur University, Berhampur
Odisha
Mobile: 9438000018

2. Dr. Srichandan Mishra

Sr. Lecturer
Govt. College, Malkangiri
Odisha
Mobile: 9437299124

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Gunupur
Date:

(Srikant Misra)
Signature of the Candidate