

Mrs. **ARJYADHARA PRADHAN**

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**ASSISTANT PROFESSOR (I)**

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**INTERESTED RESEARCH AREAS:**

### **RENEWABLE ENERGY SOURCES**

**SCHOOL LEVEL RESPONSIBILITY:**

- FACULTY CO-ORDINATOR OF STUDENT EXTRACORRICULAR ACTIVITIES, INDUSTRIAL VISIT, CONFERENCE, WORKSHOP, SEMINAR
- ALUMINI CO-ORDINATOR
- Working as Superintendent of Queen's Castle, KIIT girl's hostel , QC 3 since Dec 2014 till date.
- Faculty coordinator of SESI Society, Music & Dance Society, KIIT University
- Worked as N.S.S Programme officer, School of Electrical Engineering, KIIT University since January 10th, 2012 till July 2016.
- Worked as Deputy Superintendent of Queen's Castle, KIIT girl's hostel since July 2012 till Nov 2014.

**ACADAMIC DETAILS :**

S.NO	DEGREE	INTITUTION NAME	YEAR OF PASSING
1	P.hD	KIIT University, School of Electrical Engineering	CONTINUING
2	M.TECH (POWER AND ENERGY SYSTEM)	KIIT University	2013
3	B.Tech(Electrical)	KIIT University	2009
4	Class XII	Fakir Mohan College, Balasore	2004
5	Class X	St' Vincent's Convent School, Balasore	2002

**EXPERIENCE:**

**INDUSTRIAL:**

1. Worked at "**Hindustan Zinc Limited**" (VEDANTA GROUP), Udaipur, Rajasthan as **Electrical Engineer** from 13<sup>th</sup>, June 2009 to 9<sup>th</sup> Nov, 2010.
2. Worked at "**Vedanta Aluminium Limited**", VAL Jharsuguda as **Assistant Manager** for a period of three months.

## 2 TEACHING:

. Working as **Assistant Professor “KIIT University”**, School of Electrical Engineering, Bhubaneswar since February 1<sup>st</sup>, 2011 till date.

## PUBLICATION:

1. Published a paper “**Analysis of solar PV performance with change in temperature**” in SCOPUS Indexed Journal, International Journal of Applied Engineering Research Volume 11, Issue 7, 1 May 2016, Pages 5225-5227 , ISSN: 09734562.
2. Published paper in Journal of Advancements in Material Engineering Volume 1 Issue 1 “**Effect of Solar Panel orientation on the Performance of PV System**”.pp 1-6, April 2016
3. International Journal of science, Engineering and technology research ,April 2014 ,**volume 3 issue 4**”PP 790-794, **ISSN 2278-7798,”Fundamentals of harmonics and its effect A case study.**
4. International Journal Of Engineering And Computer Science,IJECS ISSN:2319-7242 Volume 2 Issue 1 Jan 2013 Page No. 214-220.“**Analysis of Solar PV cell Performance with Changing Irradiance and Temperature.**”
5. International Journal Of Engineering Inventions (IJEI), Volume 2, Issue 3, Feb 2013“**Design and Simulation of DC-DC Converter Used in Solar Charge Controllers.**”
6. International Transaction on Electrical, Electronics and Communication Engineering, ITCEECE ,Volume 3 issue 2 March 2013.  
“**Hybrid Renewable Energy off Grid System model for Rural Electrification.**”
7. International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering Vol. 1, Issue 4, October 2012, ISSN: 2278 – 8875, PP 256-261“**Design of Solar Charge Controller by the use of MPPT Tracking system**” .
8. International journal of advanced scientific and technical research Issue 2 volume 5, October 2012 ISSN 2249-9954,PP 1-5“**Comparison of various strategies of MPPT for optimizing the power output**”.
9. International journal of Power system operation and Energy Management, Volume 1 Issue 3, March 2012, ISSN-2231-4407,PP 86-90“**Distributed generation system using Pe Interface**”
10. International journal on advanced computer theory and engineering, **Volume 2, issue 1 , ISSN : 2319-2526 “Biomass Gasification by the use of Rice husk gasifier”.**

## International/National Conferences/Seminars/Workshops

1. International Conference on Renewable Energy Technology-ICORET2011,PSG College of Technology, Coimbatore,15-17<sup>th</sup> Dec,2011“**Solar Thermal Technology-An overview of Collectors**”
2. All India Seminar on Renewable energy –Better future to next Generation, Institute of Engineers, Odisha state centre,12-13<sup>th</sup> march,2011, Bhubaneshwar.“**Analysis on the combined operation of solar and conventional power system**”
3. International Conference on Solar Energy Photovoltaic, ICSEP-2012,19 th-21<sup>ST</sup> Dec,2012,KIIT University, Bhubaneswar.“**Study and analysis of Photovoltaics in space applications.**”
4. International Conference on Renewable Energy ICORE-2012, grid power from renewable.Pandit Deendayal University, Gandhinagar, Gujarat, 6-7<sup>th</sup> Dec 2012“**Biofuel conversion for the need of Energy Substitution**”
5. National Conference on “Future of Renewable energy and related Technological development of Odisha”,19<sup>th</sup>-20<sup>th</sup> Dec,2012,KIIT University, Bhubaneshwar.“**Solar Charge Controller by using Maximum Power Point Tracking**”

6. National conference on Distributed Generation through Renewable Energy Sources for Rural India.,DGTRESS-2011,2<sup>ND</sup> APRIL 2011,Kiit University,Bhubaneshwar.
7. All India Seminar cum workshop on Energy Conservation The Alternative to demand side management.23-24<sup>th</sup> January,2012 ECADSM-2012,Institute of Engineers, Bhubaneshwar.“**Energy Audit and its Applications**”
8. 27<sup>TH</sup> National Convention of Chemical Engineers on Biofuels towards energy security and environment protection, 30<sup>th</sup> sept-1<sup>st</sup> oct,2011, Institute of Engineers Visakhapatnam.“**Biofuel Technologies and its related issues**”
9. National Conference on Renewable Energy: Prospects and problems in development, Adoption and Governance of Sustainable Technologies,24<sup>th</sup> march, 2012,KIIT University, Bhubaneshwar. “**Distributed generation system using Pe Interface**”
10. International Seminar on Hydro power and sustainable Development, organised by OHPC, Centre Board OF Irrigation and Power , NewDelhi,21<sup>st</sup>-22<sup>nd</sup> Feb 2013.
11. Organised one day workshop on “**Utilisation of Solar Energy**”, 13<sup>th</sup> NOV,2011, KIITuniversity, Bhubaneshwar.
12. Attended three days workshop on “**Research Methodology**” 12-17<sup>th</sup> july,2012,KIIT University, Bhubaneshwar.
- 13.All India Seminar on 'Recent Advances in Mechanical Engineering', March 16-17, 2013, Bhubaneswar, organized by Odisha state Centre.”**Design features and working of Solar Flat Plate Collector**”
14. 2<sup>nd</sup> National Level Conference NCIPET-2013, 17 February on Innovative Paradigms in Engineering & Technology , S. B. Jain Institute of Technology, Management & Research, Nagpur“ **ANALYSIS of SPV-Diesel Hybrid System for remote area application .**
15. Two days national conference on recent advances in engineering and technology, 6-7<sup>TH</sup> APRIL,2013, at RAET, Balasore “**Biomass Gasification by the use of Rice Husk Gasifier.**”
16. Presented a paper on “**Prospective of Autonomy\_Higher Education**” in the National conference on Role of self financing Institutions in Quality Assurance in Higher Education organized by NAAC, 2<sup>nd</sup>-3<sup>rd</sup> August, 2013.
17. Light India international 2013, lii" **Analysis of the colour spectrum and white LEDs: Its impact on human vision"** 13-16th September Chennai
18. National Seminar on “Green building technology in urban areas-A boon to environmental sustainability.31<sup>st</sup> aug-1<sup>st</sup> sept,2013 ,institute of engineers,bhubaneshwar.”**Concept of green building reducing environmental impact**”.
19. Presented a paper entitled “**Energy Conservation and its Impact on Environment**” at Childern science congress , 2013.
20. Presented a paper in the all India Seminar on 'Recent Advances in Mechanical Engineering', 2013, Bhubaneswar, organized by Odisha state Centre.”**Rural Electrification by the use of Wind Energy Systems**”
21. National Conference on Recent Advances in Technology and Management for Integrated Growth 2013 (RATMIG) 9<sup>th</sup>-10<sup>th</sup> dec. 2013, “**Wind Energy: Its Related Technology and Economics**”.
22. Presented a paper named “**Comparative Analysis of Wind turbines in terms of power extraction by using Betz model**” in ICORE 2013, 27-29 November held at KIIT university.
23. Presented a paper entitled “**Innovations in science and Technology for Inclusive Development**” in Regional science Congress, Bhubaneshwar chapter, KIIT University, 27-28 jan 2014.
24. Presented a paper on “**Study of mppt for water pumping system and comparing the system without mppt**” at 55<sup>th</sup> Annual technical session held at institute of engineers , Bhubaneshwar, 1<sup>st</sup> march 2014.
- 25.Published paper "**Comparative study on differential techniques of MPPT Algorithm and**

**their applications"** at 12th International congress on Renewable energy (ICORE) , 8-9 DEC, 2014 NEW DELHI.

**26.** Published paper "**Dust analysis and its effect on performance of Solar pv panel**" at 12th International congress on Renewable energy (ICORE) , 8-9 DEC, 2014 NEW DELHI.

**27.** Published paper in **IEEE International Conference** on Circuit, Power and Computing Technologies, ICCPCT 2015. "**Environmental effect assessment on performance of solar PV panel**" ISBN: 978-147997075-9

**28.** Presented a paper "**Irradiance and temperature effect on Solar PV Performance**" in National conference on Restructuring in Indian Power Sector and Smart Grid held in 7<sup>th</sup> April, 2016, KIIT University.

**29.** Presented a paper "**Some studies on the performance of Solar PV Panel in hot ambience**" in National Science Day 2016 held at KIIT University.

**30.** Presented a paper "**Water Cooling method to improve Efficiency of Photovoltaic Module**" in IEEE, International conference on signal processing, Communication, Power and Embedded System (SCOPE) 2016 at Parlekhmundi, Odisha.

**31.** Presented a paper, "**Performance Evaluation of Photovoltaic Module at various soiling condition**" in IEEE conference at THAPAR University, patiala, Punjab, 2016.

#### M.Tech THESIS GUIDED:

S.NO	YEAR	TITLE
1	2015-16	PERFORMANCE EVALUATION OF UNIFIED POWER QUALITY CONDITIONER BY SINUSOIDAL CURRENT CONTROL STRATEGY.
2	2014-15	DESIGN OF PHOTOVOLTAIC STAND ALONE SYSTEM CONSIDERING ENVIRONMENTAL EFFECTS.
3	2013-14	ANALYSIS OF CLIMATIC EFFECT ON SOLAR PV PANEL

#### B.Tech PROJECTS GUIDED:

S.NO	YEAR	TITLE
1	2016	SOLAR POWERED AUTOMATIC IRRIGATION SYSTEM
2	2016	SINGLE AXIX SOLAR TRACKER
3	2015	DUAL AXIX SOLAR TRACKER

#### SUBJECTS TAUGHT:

S.NO	SUBJECT CODE	SUBJECT NAME
1		BASIC ELECTRICAL ENGINEERING
2		RENEWABLE ENERGY SOURCES
3		POWER APPARATUS DESIGN
4		DC MACHINE AND TRANSFORMER (MACHINE I)
5		MACHINE II (AC MACHINES)
6	EE-505	ELECTROMAGNETIC FIELDS