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Dr. PRITI SHUKLA

CAREER OBJECTIVE

To work in a competitive and challenging environment, so as to contribute best of my ability towards the growth of an organization. A Challenging job with the opportunity to rise and grow where I can make use of my personal attributes and qualification for the betterment of organization and self

EDUCATION

16 th Feb.2017	PhD Development and performance, evaluation of Nano-Solar PV Energy System Advisor : Dr. Mukesh Pandey & Dr. V.K.Sethi Rajiv Gandhi Proudtyogiki Vishwavidyalaya
2005	M.Tech (Energy) 79.40% ,M.A.N.I.T. Bhopal
1988	Bachelor of Engineering (Metallurgy) 72.12% (Topped in Branch) , 5Yrs Degree Course Government Engineering College, Raipur Ravishankar University
1983	Higher Secondary 75.25, M.P. Board

EXPERIENCE- Annexure I

Current 01-11-2022 to Till Date	Professor & HOD Dream Institute of Technology, Kolkata
Teaching Experience	21 Years
Industrial Experience	7.5 Years
Research Experience	10 Years

PAPER PUBLISHED- Annexure II

A. International Journal – 19

B. International Conferences -6

C. National Seminar - 8

EXPERT TALK –

1. Expert talk & chair on 27th May 2016 in International conference on Emerging Trends in Mechanical Engineering organized by Technocrats Institute of Technology (Excellence) on 27th -28th May 2016.
2. Expert talk & chair on 27th March 2018 in International conference on Emerging Trends in Mechanical Engineering organized by Technocrats Institute of Technology (Excellence) on 27th -28th March 2018.

TRAINING PROGRAMMES/ SUMMER SCHOOLS ATTENDED -21 (Annexure III)

WEBINAR -9 (Annexure IV)

M. Tech. DISSERTATION

1. Performance Evaluation of amorphous silicon solar cell with respect to weather parameters.
2. CFD analysis of fluid flow of a solar air heater duct with artificial roughness.
3. Optimization of CO₂/NH₃ as a natural refrigerant in cascade refrigeration system using genetic algorithm.

ADDITIONAL INFORMATION- (Annexure V)

TRAINING

- Level 1 of ASNT-SNT-TC-1A in Ultrasonic Testing
- ISO9000 Quality Management System Internal Auditing
- Level 1 of ASNT-SNT-TC-1A in Magnetic Particle Testing

ACHIVEMENT & EXTRA CURRICULAR ACHIVEMENTS- (Annexure VI)

VOCATIONAL TRAINING

- Bhilai Steel Plant, Bhilai (from 19.05.86 to 14.06.86)
- Bhilai Engineering Corporation Limited (From 08.06.87 to 23.06.87)

PERSONAL INFORMATION

- Husband's Name - Mr. Sanjay Shukla
- Date of Birth - 22.06.1967
- Marital Status - Married
- Language Proficiency - English, Hindi
- Hobbies - Reading

Reference

Mr. Rakesh Chandra Tiwari
Marketing Director, ITI Ltd.
dgmjgamau@hotmail.com, Mobile no. 91 9868175888

Date –
Place - Kolkata

(Dr.Priti Shukla)

Annexure I

EXPERIENCE

- Worked as Professor & HOD in “**Dream Institute of Technology**” a private Engineering college at Kolkata from 1th November 2021 to Till date
- Worked as Associate Professor & HOD in “**Dream Institute of Technology**” a private Engineering college at Kolkata from 9th September 2021 to 31st October 2022.
- Worked as Associate Professor & HOD in “**Aditya Silver Oak Institute of Technology**” a private Engineering college at Ahmedabad from 1st June 2018 to 4th September 2021 .
- Worked as Professor in “**Technocrats Institute of Technology**”, a private Engineering college at Bhopal from 1st Apr.2017 to 31st May 2018.
- Worked as Associate Professor in “**Technocrats Institute of Technology**”, a private Engineering college at Bhopal from 03rd August 2005 to 31st March 2017 .
- Worked as lecturer in “**Bansal Institute of Science and Technology**”, a private Engineering college at Bhopal from 15th July 2002 to 23rd March 2005.
- Worked as lecturer in “**L.N.C.T.**”, a private Engineering college at Bhopal from 1st Feb 2002 to 12th July 2002.
- Worked as Engineer & HOD (Heat Treatment Dept.) in “**Indo German Tool Room , Aurangabad**” From 18th June 1998 to 06th Sept 2001.
- Worked as Engineer in “**Patheja Forging, Aurangabad**” From 08th July 1995 to 25th May 1998.
- Worked as Engineer in “**Vespa Car Co Ltd, Kanpur**”(**Sister unit of LML**) From 11th Nov 1989 to 15th Jan. 1991.

Annexure II

LIST OF PAPER PUBLISHED

A. International Journal

1. **“Enhancing the efficiency of photovoltaic solar cell through CNT”**, International Journal of Current research, Vol 10, Issue 01 (2018), 63885-63888
2. **“Evaluation of Thin Film Amorphous Silicon Solar Energy System”**, Industrial Engineering letters, Vol 6, No.4 (2016) The IC Impact factor value of this journal is **5.57**
3. **“MATLAB/ Simulink based model of photovoltaic cell and their Experimental Verification”**, BLB-International Journal of Science & Technology, Vol.5, No. 1 (2014), 1-4
4. **“Matlab/Simulink Based Model of a-Silicon Photovoltaic Cell”**, BLB-International Journal of Science & Technology, Vol.5, No. 1 (2014), 5-10
5. **“Modelling of Thin Film a-Si Solar Energy System”**, Journal of Sustain Manufacturing and Renewable Energy, Vol.2, No.3-4, 2013, pp. 121-135
6. **“Lab View Based Modelling of Amorphous Silicon Solar Panel”**, TIT International Journal of Science & Technology, Vol.2, No.2, Nov.2013
7. **“Thermodynamic Analysis of Combined Power and Cooling Cycle Using Process Heat from a Passout Turbine as a Heating Source”**, International Journal of Engineering Research & Technology, Vol. 2, Issue 2, February 2013 .(Impact Factor (2012-13) : 1.76)
8. **“Development and performance, evaluation of a-Si thin-film PV cell”**, Nanomaterials and Energy, Volume 1 Issue NME6, Nov.2012, pp. 338-344
9. **“Progress in Thin Film Silicon Based Solar Cell Technology”** International Journal Of Advanced Renewable Energy Research, Vol. 1, Issue. 7, July 2012, pp. 429-433 (ASI Impact Factor: 1.4)
10. **“Concentrating Solar Power, Seawater Desalination, Parabolic Troughs, Fresnel Systems”**, International Journal Of Advanced Renewable Energy Research, Vol. 1, Issue. 3, May 2012, pp. 25-31(ASI Impact Factor: 1.4)
11. **“Recent Trends in Dye-Sensitized Solar Cell Technology”** Journal of Sustainable Manufacturing and Renewable Energy, Vol.1, No.3-4, 2012
12. **“Thin-Film Photovoltaic Cell Compared to Mono crystalline Photovoltaic Cell and Multi Crystalline Photovoltaic Cell”**, International Journal of Advanced Renewable Energy Research Vol 1, Issue 2, Apr 2012, pp. 26-35 (ASI Impact Factor: 1.4)
13. **“Heat Transfer and Fluid flow analysis of rectangular roughness rib in solar air heater duct by CFD”**, International Journal of Advanced Research in Science, Engineering and Technology, Vol.1,2012, pp. 25-30
14. **“Heat Transfer and Fluid flow analysis of roughness rib in solar air heater duct by CFD”**, International Journal of Advanced Research in Science, Engineering and Technology, Vol.1,2012, pp. 15-20
15. **“Cost Boundary in Silicon Solar Panel”** International Journal of Chemical Engineering and Applications Vol 2, No5, Oct.2011, pp 372-375
16. **“Use of Nanotechnology in Solar PV Cell”**, International Journal of Chemical Engineering and Applications, Vol.2, No.2, Apr.2011.pp77-80
17. **“Concepts of Efficiency Enhancement in Silicon Solar Cell”** Journal of Sustainable Manufacturing and Renewable Energy, Vol.1, Issue1-2.2011
18. **“Silicon Nanoparticle Enhance Performance of Solar PV Cell”**, Search & Research, Vol.2, No.1, 2010, pp No.91-93
19. **“CNT Enhances the Efficiency of Solar PV Cell”** Search & Research, Vol.1, No.3, 2010, pp No. 6-9

B. International Conferences

1. **“Concentrating Solar Thermal Power”** presented in 2nd International Conference on “Emerging Trends in Mechanical Engineering organized by Technocrats Institute of Technology (Excellence) on 27th -28th March 2018.
2. **“Effects of an Environmental factors on a-Si photovoltaics panels”** presented in International Conference NUICONE 2013 organised by IEEE at Nirma University , Ahmedabad on 28th-30th Nov.2013
3. **“Concepts Of High Efficiency Silicon Solar Cell”** presented in International Conference on concurrent Techno & Enviro search “Search And Research Youth Congress-2010 “Organized by Search And Research Group & Search And Research Journal ,Bhopal on 4th-5th Dec.2010
4. **“Use of CNT in Solar PV cell”** presented in International Conference on “advances in Renewable Energy” (ICARE-2010) organized by MANIT, Bhopal on 24th -26th June 2010.
5. **“Flexibility in Service Sector”** presented in Ninth Global Conference (GLOGIFT 09) On Flexible system Management organized by NITIE , Mumbai on 12th – 14th Nov.2009.
6. **“Use of Quantum Dots in Solar Panel”** presented in 15th ISME International Conference on Advances in Mechanical Engineering organized by Rajiv Gandhi Technical University on 18th - 20th March 2009

A. National Seminar

1. **“Just in Time – An Effective Tool to Win Competition”** presented in National Conference on Recent Trends and Innovations in Engineering and Applied Sciences organized by Technocrats Institute of Technology & Science, Bhopal on 7th – 8th May 2018.
2. **“Concentrating Solar Thermal Technologies”** presented in National Conference on Advancement in Science and Technology for sustainable future organized by Department of Mathematics & Mechanical Engineering in association with the Institution of Engineers (India), Technocrats Institute of Technology & Science, Bhopal on 15th -16th May 2015.
3. **“ Concepts Of High Efficiency Silicon Solar Cell”** presented in National Conference on Research & Innovation in Mechanical Engg. (IMRE-2014), organized by Technocrats Institute of Technology, Bhopal on 5th-6th March 2014.
4. **“ CNT Enhances the efficiency of solar PV cell”** presented in National Seminar on 2nd Bhartiya Vigyan Sammelan 2009 organized by Vijnana Bharti , M.P.C.S.T., R.G.T.U. ,Govt. of M.P. on 1st - 3rd Dec 2009
5. **“ Silicon nanoparticles enhance performance of solar cell”** presented in National Seminar on Efficient Conversion of New and Renewable Energy for Electricity & Fuel organized by J.N.C.T.Bhopal, Ministry of New & Renewable Energy ,Govt. of India, New Delhi on 22nd – 23rd Dec.2008.
6. **“The use of Hydrogen Energy in Vehicles”** presented in National Seminar on Bhartiya Vigyan Sammelan 2007 organized by Vijnana Bharti , M.P.C.S.T., R.G.T.U. ,Govt. of M.P. on 23rd - 25th Nov.2007
7. **“Design of Solar Refrigeration system for Rural Application”** presented in National Seminar on Rural Technologies organized by Vijnana Bharti Madhya Pradesh, Bhopal on 4th – 5th March 2006.
8. **“Combat pollution of oil spills by oil eating microbes”** presented in National Research Seminar on Microbial World and Its Application in Life organized by Division of Microbiology, Deptt.,of Botany, Govt. of M.P. M.V.M.,Bhopal on 20th –21st March 2004

Annexure III

TRAINING PROGRAMMES/ SUMMER SCHOOLS ATTENDED:

- 1.** One week short-term training programme on “Recent Innovations in Design and Manufacturing” organized by Department of Mechanical Engineering, TIT (Excellence), Bhopal, M.P. from 13th March to 17th March 2009
- 2.** Two week staff development programme on “Solar & Wind Energy: Theory & practice” organized by MANIT Bhopal, M.P. from 27th February to 12th March 2009.
- 3.** Two week short-term training programme on “Advances in Production Technology and Industrial engineering” organized by MANIT Bhopal, M.P. from 2nd February to 14th February 2009.
- 4.** One week Faculty Development programme on “Advance Technologies in Gas Turbine Engine” organized by Department of Mechanical Engineering, Aditya Silver Oak Institute of Technology , Ahmedabad from 9th Dec. to 13th Dec.2019
- 5.** Five days online Faculty Development Program on “Materials for Thermal and Renewable Energy Research” organized by Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, Tamil Nadu from 20th May to 24th May 2020.
- 6.** One week online short-term training program on “ Latest Trend in Mechanical Engineering and Technology” organized by Department of Mechanical Engineering of P.B.C.O.E, Nagpur in association with ISHRAE Nagpur Chapter from 26th May to 31st May 2020
- 7.** One week online Faculty Development Program on “Research Opportunities and Challenges in Manufacturing Sector” organized by Department of Mechanical Engineering, SEVERI College of Engineering, Pandharpur, Maharashtra from 1st June to 6th June 2020.
- 8.** Three days online Faculty Development Program on “ Fluid and Structural Simulation using CRADLE” organized by Department of Aerospace Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, A.P. from 8th June to 10th June 2020.
- 9.** One week online Faculty Development Program on “ Frontiers in Mechanical Engineering” organized by Department of Mechanical Engineering, KKR & KSR Institute of Technology and Sciences, Guntur, A.P. from 8th June to 12th June 2020.
- 10.** One week online Faculty Development Program on “Advance Research Methodology and Innovative Teaching Pedagogy” organized by Tulsiramji Gaikwad-Patil college of Engineering and Technology Nagpur In association with Institution of Engineers (Indid), Indian Society for Technical Education from 8th June to 13th June 2020.
- 11.** One week online Faculty Development Program on “Recent Advances in Mechanical Engineering” organized by Department of Mechanical Engineering, Shri G.S.Institute of Technology and Science, Indore, M.P. from 8th June to 13th June 2020.
- 12.** Seven days online Faculty Development Program on “Heat Transfer and Computational Fluid Dynamics Towards Industrial Applications” organized by Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, Tamil Nadu from 12th June to 18th June 2020.
- 13.** Five days online Faculty Development Program on “Manufacturing, machining and Testing of Composites” organized by Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, Tamil Nadu from 15th June to 19th June 2020.
- 14.** Three days online Faculty Development Program on “Moving to Master Science in Technology (MMST:2020)” organized by Freshmen Mechanical Engineering Department of Potti Sriramulu Chelvadi Mallikarjuna Rao College of Engineering & Technology, Vijaywad, Andhra Pradesh from 18th June to 20th June 2020.

- 15.** Five days online Faculty Development Program on “Design Thinking Approaches in Engineering” organized by Department of Civil Engineering, SEVERI College of Engineering, Pandharpur, Maharashtra from 22nd June to 26th June 2020.
- 16.** One week online Faculty Development program on “Recent Advancement in Mechanical Engineering (RAME 2020)” organized by Department of Mechanical Engineering, Bharat Institute of Engineering and Technology, Hyderabad, Telangana from 22nd June to 26th June 2020.
- 17.** One week online Faculty Development program on “Technological Advancement in Mechanical Engineering (TAME 2020)” organized by Department of Mechanical Engineering, Bharat Institute of Technology & Science, Warangal, Telangana from 29th June to 3rd July 2020.
- 18.** One week online Faculty Development program on “Recent Innovations in Mechanical Engineering and Scope for Entrepreneurship” organized by Department of Mechanical Engineering, Nawab Shah Alam Khan College of Engineering and Technology, Hyderabad, Telangana from 29th June to 5th July 2020.
- 19.** One week online Faculty Development program on “Trends in Energy Conservation Technologies” organized by Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru, Karnatak, from 6th July to 11th July 2020.
- 20.** One week online FDP-CUM-WORKSHOP on “Future of Engineering Education and Work in Post Covid-19 World” organized by Department of Mechanical Engineering, Chouksey Group of Colleges, Bilaspur, C.G. from 6th July to 11th July 2020.
- 21.** Seven days online Faculty Development Program on Building Research Aptitude” organized by Meher Chand Mahajan DAV College for Women, Chandigarh From 14th July to 20th July 2020.

Annexure IV

WEBINAR:

1. Webinar on “Automotive Embedded Systems” held on 22nd May 2020, organized by Amity School of Engineering and Technology (ASET), Gwalior, M.P.
2. Webinar on “E- Resources for Digital Learning” held on 27th May 2020, organized by Institution’s Innovation Council & Department of Mechanical Engineering of R.M.K. College of Engineering and Technology, Puduvoyal, Tamil Nadu.
3. Webinar on “Virtual Labs” held on 27th May 2020, organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, AKS University Satna, M.P.
4. Webinar on “Intelligent Systems” held on 28th May 2020, organized by Department of Mechanical Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu.
5. Webinar on “Smart Manufacturing” held on 1st June 2020, organized by Department of Industrial and Production Engineering, Shri G.S. Institute of Technology and Science, Indore, M.P.
6. Webinar on “Cyber Security when the future is uncertain” held on 2nd June 2020, organized by Department of Computer Science Engineering, Dr. Ashok Gujar Technical Institutes, Dr. Daultrao Aher College of Engineering, Karad, Maharashtra.
7. Webinar on “Self Management” held on 3rd June 2020, organized by Department of Computer Science Engineering, Dr. Ashok Gujar Technical Institutes, Dr. Daultrao Aher College of Engineering, Karad, Maharashtra.
8. Webinar on “Smart Agriculture System Using IOT” held on 6th June 2020, organized by Department of Mechanical Engineering, St. Peter College of Engineering and Technology, Chennai, Tamil Nadu.
9. Webinar on “5S Methodology for Lean Manufacturing ” held on 20th June 2020, organized by Let’s Learn and Grow Together, Lonavala, Maharashtra.

Annexure V

ADDITIONAL INFORMATION:

1. Organizing secretary of one national conference on Recent Trends and Innovation Engineering & Applied Sciences, 7th – 8th May 2018 organized by Technocrats Institute of Technology & Science, Bhopal (M.P.)
2. Organizing member of three national conference in mechanical engineering organized by T.I.T. Group of Institutions Bhopal (M.P.)
3. Member of Editorial Board of International journal in Technocrats Institute of Technology & Science, Bhopal (M.P.)
4. Chief Editor of News Letter in Technocrats Institute of Technology & Science, Bhopal (M.P.)
5. Member of Editorial Board of News Letter in Technocrats group of Institution, Bhopal (M.P.)
6. Member of Editorial Board of magazine “MONTHAN” in Technocrats Institute of Technology & Science, Bhopal (M.P.)
7. Worked as Dy. Supt. In Exam Control Room.
8. Faculty coordinator of IIIIE foundation Day / Entrepreneurship Development Cell inauguration under the aegis of Indian Institution of Industrial Engineering Student chapter of TIT & Science on 5th Nov. 2017.
9. Faculty coordinator of Udan 2k17, 22nd – 23rd Apr. 2017 organized by TIT & Science.
10. Program coordinator of Technoarghya – 2015, 3rd -5th May 2015, organized by Department of Mechanical Engineering, TIT & Science.
11. Program coordinator of Technoarghya-2013, 18th – 20th March 2013 organized by Department of Mechanical Engineering, TIT & Science.

Annexure VI

ACHIVEMENT & EXTRA CURRICULAR ACHIVEMENTS –

- Topped in Branch twice (In Final & Pre final Year B.E.)
- Secured 4th position in III Year B.E.
- Student member of syllabus committee at Ravishankar University.
- Selected as a paper setter & Head Examiner of Barkatulla University for Manufacturing process I, Manufacturing process II & Engg. Material in Dec.2006
- Recipient of **President Guide Badge**.
- Recipient of 1st prize in Extempore & 3rd prize in Debate at state level.
- Selected as a best student in primary, middle & high School & College.