

# **CURRICULUM-VITAE**

## **Personal Details:**

**Name** : **Dr. Shraddha Gupta**  
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## **Academic Qualification:**

- Ph.D. from CSJM Kanpur University in 2015.
- M.Sc. (Physics) in the year 2004 from C.S.J.M. Kanpur University.
- B.Sc. (PCM) in the year 2002 from C.S.J.M. Kanpur University.

## **Additional Qualification:**

- CSIR NET (JRF under UGC scheme) qualified which was held on 23.12.2007.
- CSIR NET (JRF under CSIR scheme) qualified which was held on 18.12.2005.
- GATE 2006 with AIR 317.
- Advance Computer Programming Course with A<sup>+</sup> Grade in 2001 from SCI Raebareli.
- C.I.C. from IGNOU with 76.5% marks in 2000.

## **International/National Conferences/Seminar/Workshop Attended:**

- One day workshop on “*Applications of Remote Sensing and Geographic Information System*” in Natural Resource Management conducted by NNRMS ISRO, Dehradun held at Feroze Gandhi College, Raebareli on 18<sup>th</sup> Feb. 2005.
- National Seminar on “*Emerging Trends in Physics in 21<sup>st</sup> Century*” organized by Department of Physics, at D.B.S. College on 10<sup>th</sup> Dec. 2006.
- National Workshop on “*Nanomaterials and Nanotechnology (NWNNT)*” organized by University of Lucknow, Lucknow & MRSI- Lucknow Chapter on 24-25 Mar. 2007.
- International Conference on “*Sensors and related Network (SENNET 07)*” held at University, Vellore, India on 12-14 December, 2007.
- International Conference on “*Transport and Optical Properties of Nanomaterials (ICTOPON-2009)*” at The University of Allahabad, Allahabad on 5-8 Jan. 2009.
- International Conference on “*Trends in Optics and Photonics (ICONTOP-2009)*” Department of Applied Optics and Photonics, University of Calcutta, Kolkata on 1-4 Mar. 2009.

### **OP/RC/STC/FDP etc. Course attended:**

- 4 days course on “*Vacuum Science, Technology and Applications*” conducted by Indian Vacuum Society held at Trombay, Mumbai during 12-15 May 2009.
- Orientation Course from ASC UGC Lucknow University duration 1 Jan. to 28 Jan 2015.
- Refresher Course from HRDC UGC Lucknow University duration 1 Jan. to 21 Jan 2016.
- 7 days Workshop on United Nations Sustainable and Millennium Development Goals held at Gokul Das Hindu Girls College Moradabad during 8-14 Dec 2016.
- One week FDP on **LaTeX & Xfig** organized by IQAC, AN College, Patna in association with IIT Bombay through Spoken Tutorial, Remote Learning from 11-17 May 2020.
- Online FDP on **Technical Skill Development: Need of the Hour** organized by Shaheed Mangal Pandey Govt. Girls PG College, Meerut UP from 23-27 May 2020.
- Two week FDP on **Managing Online Classes & Co-creating MOOCs 2.0** organized by Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by MHRD PMMMNMTT from 18 May to 03 June 2020 with A+ grade.
- Seven Days FDP on **ICT Interventions in Higher Education** organized by Chaudhary Charan Singh University, Meerut UP NOQG3I-CE000083 from 14-20 June 2020.
- 7 Days Online National Workshop on **NAAC: Seven Assessment Criteria for Accreditation** Organized by Govt. PG College Bilaspur Rampur UP from 2 – 8 Aug 2020.
- SWAYAM ARPIT Online Course in **Leadership and Governance in Higher Education, Level 2** from 1<sup>st</sup> Dec 2020 to 31 March 2021 with Grade “B” in the proctored examination held on 21.08.2021. by Savitribai Phule Pune University Pune.

### **Life Membership:**

- Life membership of Indian Association of Physics Teacher.
- Life membership of Society for Technologically Advanced Materials, India.

### **List of Publications:**

#### **Paper Presented in International and National Seminar/Conferences and Webinar**

1. **Shraddha Gupta**, Dibya Prakash Srivastava, Brijesh Tripathi, Ratna Sircar, Jyotsana Trivedi, “Application of Nano-texturing to Enhance Light Trapping in Multi-crystalline Silicon Photovoltaic Cell”, Poster presented at International Conference on Transport and Optical Properties of Nanomaterials (ICTOPON), January 5-8, 2009, Allahabad, India.
2. Ratna Sircar, Brijesh Tripathi, A. K. Saxena, Dibya Prakash Srivastava, Jyotsana Trivedi, **Shraddha Gupta**, “Enhanced Spectral Absorption in a-Silicon Photovoltaic Cell by Inserting c-Silicon Quantum Wells”, Proceedings of International Conference on Trends in Optics and Photonics, March 1-4, 2009, Kolkata, India, pp. 17-21.
3. Ratna Sircar, Brijesh Tripathi, Dibya Prakash Srivastava, **Shraddha Gupta** and Jyotsana Trivedi, “*Modeling and Optimization of Doping Concentration of Amorphous Silicon Thin Film Photovoltaic Cell*” in International Conference on, “Advances in Energy Research” (ICEAR 2009), December 9-11, 2009 at IIT Bombay.

4. Ratna Sircar, **Shraddha Gupta**, Dibya Prakash Srivastava, Brijesh Tripathi and Jyotsana Trivedi, “*Enhanced Efficiency of mc-Si Photovoltaic cells by Optimizing Recombination Parameters*” Accepted in International Conference on, “Advances in Energy Research” (ICEAR 2009), December 9-11, 2009 at IIT Bombay.
5. Ratna Sircar, **Shraddha Gupta** and Brijesh Tripathi, “*Carrier Lifetime Spectroscopy of Doping Materials and Impurities in Silicon*”, Presented at a 3<sup>rd</sup> National Seminar on Spectroscopy: Its Relevance to Various Fields of Science, (pp-9), 19<sup>th</sup>-20<sup>th</sup> Nov. 2009.
6. Ratna Sircar, **Shraddha Gupta**, Brijesh Tripathi, Dibya Prakash Srivastava “Influence of Heavy Doping in Silicon Solar cell by using Minority Carrier Lifetime and Band Gap Narrowing Model”, Proceedings of International Conference on Renewable Energy (ICORE-2010) held at Chandigarh, India, December 1-3, 2010, pp. 367.
7. Ratna Sircar, Brijesh Tripathi, Divya Prakash Srivastava, **Shraddha Gupta**, Jyotsana Trivedi, “*Role of Nano-Texturing to Improve Efficiency of Mc-Silicon Solar Cell*”, seminar held at Prasad Institute of Management & Technology, Lucknow on 12-13 Jan. 2012.
8. Ratna Sircar, **Shraddha Gupta**, Jyotsana Trivedi, Dibya Prakash Srivastava, “*Environmental Impact of Thin Film Silicon Solar Cell*” 3<sup>rd</sup> Lucknow Science Congress (LUSCON) – 2015 & National Conference on Science for Society, held at BBAU Lucknow on 31<sup>st</sup> Oct.-2<sup>nd</sup> Nov. 2015.
9. R.Sircar, **Shraddha Gupta**, “*A Study of Solar Panel as Data Receiver and Energy Harvesting*” Poster presented at the International Conference on ‘New Scintillations on Materials Horizon’ (ICNSMH-2016) organized by Department of Applied Physics, Faculty of Engineering & Technology, M. J. P. Rohilkhand University, Bareilly (U. P.) during 21-23 Oct, 2016
10. Ratna Sircar, **Shraddha Gupta**, “*Solar Energy as an Energy Solution for Energy Crisis*” National Seminar on Independent India: Retrospection & Future Prospects held at Govt. Degree College, Budaun on 17-18 Dec, 2016.
11. **Shraddha Gupta**, “*Enhancing Quality Education in Higher Education by Social Media*” in proceeding of National Seminar conducted by Maharana Pratap Govt PG College Bilsa, Budaun on 12-13 Jan 2017.
12. **Shraddha Gupta** “*Solar Lights New Way to Make us Smart*” in National Seminar conducted by V.R.A.L. Rajkiya Mahila Mahavidyalaya Bareilly (UP) on 08-09 Jan 2017.
13. Poster Presentation entitled “**A Study of Solar Panel as Data Receiver and Energy Harvesting**” in International Conference organized by Department of Applied Physics, Faculty of Engineering and Technology MJPRU, Bareilly, UP on 21-23 Oct 2016
14. Published Paper entitled “**Skill Development: Challenges and Opportunities in India**” in proceeding of National Seminar organized by V.R.A.L. Rajkiya Mahila Mahavidyalaya Bareilly (UP) on 06-07 Jan 2018.
15. Presented Paper entitled “**Environmental Impact of Renewable Energies**” in National Seminar organized by Ramabai Government Women Post Graduate College Akbarpur, Ambedkar Nagar UP on 04-05 Feb 2018.
16. Presented Paper entitled “**Cross-Cultural Science Education: A Scientific Approach**” in 6<sup>th</sup> National Conference organized by Government PG College, Bisalpur Pilibhit, UP on 20-21 Jan 2018.
17. Presented Paper entitled “**Pollution Management of E-Waste by Solar Panels**” in National Seminar organized by S. M. College, Chandausi, Sambhal, UP on 14-15 Dec 2017.

18. Presented Paper entitled “**Political and Nationalistic views of Indian Thinkers**” in International Conference organized by Department of Political Science, CCS University, Meerut on 12-13 Aug 2017.
19. Presented Paper entitled “**Importance of Electrical Literacy for Stronger Democracy**” in National Seminar organized by Ram Lubhani Sahani Government Mahila Degree College, Pilibhit 08-09 Dec 2018.
20. Presented Paper entitled “**Role of Moral Education in Higher Education**” in National Seminar organized by Govt. Raza PG College, Rampur UP on 19-20 Jan 2019.
21. Presented Paper entitled “**Role of Indian Women in Global Research Area**” in National Seminar organized by Maharana Pratap Govt PG College Bilsa, Budaun on 29-30 Jan 2019.

### **Paper Published in International and National Journals**

1. Brijesh Tripathi, Ratna Sircar, Dibya Prakash Srivastava, **Shraddha Gupta**, Jyotsana Trivedi, “Effect of Inserting Quantum Wells on Electrical Parameters of Micro-crystalline Silicon Photovoltaic Cell”, Int. J. of Pure & Appl. Phys. (IJAP), Vol. 5, No.1 (2009).
2. Ratna Sircar, **Shraddha Gupta**, Dibya Prakash Srivastava, Brijesh Tripathi and Jyotsana Trivedi, “*Optimization of Recombination Parameters to Enhance Minority Carrier Lifetime*” Int. J. of Pure & Appl. Phys.(IJAP), Vol. 5, No.2 (2009).
3. R.Sircar, B.Tripathi, **S.Gupta**, “Design and Simulation of Thin-Film Silicon Quantum Well Photovoltaic Cell” J. Nano-Electron. Phys. 3 (2011) No2, P.11-18.
4. Ratna Sircar, **Shraddha Gupta**, Brijesh Tripathi, Dibya Prakash Srivastava “*Study of Impurity Photovoltaic Effect with Different Doping Materials using SCAPS Software*”, International Journal of Scientific and Research Publications, Volume 3, Issue 7, July 2013 ISSN 2250-3153.
5. Ratna Sircar, **Shraddha Gupta**, Brijesh Tripathi, Dibya Prakash Srivastava, “*Comparative Study of Impurity Photovoltaic Effect with Different Doping Materials*” International Journal of Semiconductor Science & Technology, Volume 1, Issue 1, Jan 2015 pp 1-7.
6. R. Sircar, J. Trivedi, **S. Gupta**, B. Tripathi, D.P.Srivastava “*Study of Light Trapping Scheme to Improve Performance of Silicon Solar Cells*” Journal of Nano- and Electronic Physics Vol. 8 No 1, 01007(4pp) (2016)
7. Dr. Shraddha Gupta “Role of Blended Teaching Learning System in Higher Education” Kala Sarovar, a quarterly Referred, Peer Reviewed Journal Vol. 24-No.-1-2021, ISSN-0975-4520.
8. B. Tripathi and **S. Gupta** “Surface Passivation: A Path Forward for Performance Improvement of Perovskite Solar Cells” Peer Review Journal of Solar & Photoenergy Systems Crimson Publishers PRSP000518.1(4).2021

### **Chapters in Edited Book**

- Chapter entitled “**The Impact of Terrorism on the Environment**” published in edited book entitled “**International Terrorism, Tourism and Economic Health of the World**” with ISBN 978-81-910666-8-5 published by Mumukshu Publication of Humanities, Shahjahanpur UP.
- Chapter entitled “**Role of Solar Energy Technologies in Sustainable Development**” published in edited book entitled “**Renewable Resources and Environment**” with ISBN: 978-93-5056-893-4 published by Discovery Publishing House Pvt. Ltd., New Delhi (India).

- Chapter entitled “*Impact of COVID-19 Pandemic on Higher Education in India: A theoretical Study*” in a Book entitled” Self-Reliant Bharat: Challenges and Opportunities” ISBN: 978-81-949722-4-2 Sohem publication 2021.

**Co-Editor**

- In a Book entitled “Impact of COVID-19 on Present and Future Scenario of Education: Survey of India and the World” with ISBN: 978-81-94588-19-1 by Wizard Publisher India.

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