

Curriculum Vitae



Guest Lecturer
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Dr. Suresh Kumar Sharma

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EDUCATIONAL QUALIFICATIONS

- **Ph.D.**, Department of Physics, Harcourt Butler Technical University (Formerly **H.B.T.I.**), **Kanpur** Affiliated to Dr. A.P.J. Abdul Kalam Technical University (Formerly U.P.T.U.), Lucknow (**December, 2017**)
- **M. Phil. (Physics)** from University Institute of Engineering and Technology, C.S.J.M. University, Kanpur (U.P.) in **2011**.
- **Post-Graduation** from Brahmanand P.G. College, Kanpur (U.P.) in **2009**.

FELLOWSHIPS/SCHOLARSHIPS AND AWARDS

IRS (Institute Research Scholar- Harcourt Butler Technical University, Kanpur), Aug.
Project Fellow, Major Research Project (UGC),

PROJECTS/ DISSERTATION COMPLETED

- 1.** UGC Major Research Project Entitled “**Application of Non-Oxide Glassy Thin Films for monitoring the Environmental Pollution**” as Project Fellow in **2012-2013**.
- 2.** Dissertation report submitted on ‘**Effective Electromagnetic Parameters of Left Handed Materials**’ in Department of Physics, University Institute of Engineering and Technology, Kanpur (affiliated to CSJM University Kanpur) for partial fulfilment of award of degree of **Master of Philosophy (M.Phil.)** in **2011**.
- 3.** Project report submitted on ‘**Double Beta Decay**’ in Department of Physics, Brahmanand PG College Kanpur (affiliated to CSJM University Kanpur) for partial fulfilment of award of degree of **Master of Science (M.Sc.)** in **2009**.

MAJOR RESEARCH SKILLS / INTERESTS

1. Synthesis of Glassy alloys, Amorphous Semiconductors,
2. Pellet Preparation,
3. Vacuum Evaporation,
4. Thin Film deposition techniques,
5. Vacuum Sealing,
6. High Field Conduction Measurements,
7. Electrical Characterization of Materials
8. Photoconductivity Measurements,
9. Impedance Measurements,
10. A. C. Conductivity Measurements,
11. Differential Scanning Calorimetry (DSC) Measurements,
12. Mechanical Properties, Vicker Hardness Measurements,
13. Characterization tools, XRD, SEM

14. Faculty Development Programme (FDP) Organized:

Member of organizing Committee in A Three Days Faculty Development Program on “**Recent Trends in Condensed Matter Physics**”, from **29th November to 1st December, – 2018**, Sponsored by World Bank TEQIP-III organized by **Department of Physics, School of Basic and Applied Sciences, Harcourt Butler Technical University, Kanpur, INDIA.**

WORKSHOPS / SHORT TERM COURSES / FDP ATTENDED

1. One Week Faculty Development Program on “**Methods and Techniques for Enhanced Teaching and Learning in Technical Education**”, from **15-20, October – 2018** Sponsored by World Bank TEQIP-III organized by **Department of Chemical Engineering, School of Chemical Technology, Harcourt Butler Technical University, Kanpur, INDIA.**

2. Workshop on “**Human Values and Professional Ethics**”, from **27 – 29, July – 2018**
Sponsored by TEQIP-III organized by **TEQIP-III, Harcourt Butler Technical University, Kanpur, INDIA.**
3. Faculty Development Program on “**Recent Advances in Chemical Engineering**”, from **23-27, July – 2018** Sponsored by TEQIP-II organized by **Department of Chemical Engineering, School of Chemical Technology, Harcourt Butler Technical University, Kanpur, INDIA.**
4. Short Term Course on “**Emerging Trends in Materials Science (STCETMS-2017)**”, held from **23 - 29 March 2017** Sponsored by TEQIP-II in **Department of Applied Sciences, Madan Mohan Malviya University of Technology, Gorakhpur, INDIA.**
5. Short Term Course / Faculty Development Program on “**Communication Network: A Research Perspective**”, from **27 Feb - 04 March – 2017** Sponsored by TEQIP-II organized by **Department of Electronic Engineering, School of Engineering, Harcourt Butler Technical University, Kanpur, INDIA.**
6. Faculty Development Program on “**Advance Course on Antennas and Microwaves**”, **30 Jan. - 04 Feb. – 2017** Sponsored by TEQIP-II organized by **Department of Electronic Engineering, School of Engineering, Harcourt Butler Technical University, Kanpur, INDIA**

CONFERENCES ATTENDED

1. National Conference on “**Recent Innovations in Applied Sciences and Humanities**”, 10th October, 2015 organized by Department of Applied Sciences and Humanities, Rawal Institute of Engineering and Technology, Faridabad (Presented (*ORAL*) a paper entitled “*Density of Charged Defect States Using A.C. Conductivity Measurement in Glassy Alloys of $Se_{90}M_{10}$ ($M = Ag, In$)*”)
2. National Conference on “**Recent Advances in Chemical and Material Science**,” (**NCRACMS-15**), 23-24 Feb. **2015** organized by Department of Applied Science, M. M. M. University of Technology, Gorakhpur, PIN- 273016, INDIA (Presented a paper titled “*Frequency dependence of ac conductivity in Glassy $Se_{90}In_{10-x}Ag_x$* ”)
3. Poster entitled “**Temperature Dependent Study of Dielectric Parameters for In-Ag Doped Glassy Alloy**“, presented in **2015 Joint Fall Meeting of the APS and AAPT New England**

Sections held during November 6–7, 2015 organized at Dartmouth College, Hanover, New Hampshire. Abstract Published in *Bulletin of the American Physical Society*.

4. Paper entitled “**Frequency Dependence of Dielectric Constant and Dielectric Loss in a- $Se_{90}In_8Ag_2$ CG glassy alloy**“, presented in **Spring 2015 Meeting of the APS New England Section, during April 24–25, 2015; organized at Boston University, Boston, Massachusetts.**

Abstract Published in *Bulletin of the American Physical Society* **Volume 60, Number 5**

5. National conference on “**Applied Physics and Material Science**”, 5-6 Feb., **2015** organized by Department of Physics, Maharshi Dayanand University Rohtak, Haryana- 124001, INDIA. (Presented (*POSTER*) a paper entitled “*AC Conduction in Glassy Alloys of $Se_{90}In_{10-x}Ag_x$* ”)
6. National Seminar on “**Advances of Material Science in Physics**”, 20-21 Dec., **2014** organized by Department of Physics, Janta College Bakewar, Etawah – 206124, INDIA.
7. National Conference on “**Materials Science and Technology**” (NCMST-14), 10-11 March **2014** organized by Department of Applied Science, M. M. M. University of Technology, Gorakhpur, PIN- 273016, INDIA (Presented a paper titled “*Effect of frequency on activation energy of ac conduction of in $Se_{90}Sb_8Ag_2$ bulk sample: Observation of MN Rule*”)
8. National Conference on Thermophysical Properties “(NCTP-2013)” 17-19 October, **2013** jointly organized by Department of Physics, Christ Church College, Kanpur TPSI & C. S. J. M. University, Kanpur -208024, INDIA. (Presented a paper titled “*Temperature and Frequency dependence of A.C. Conductivity in Glassy $Se_{100-x}Bi_x$: Applicability of CBH Model*”)
9. National Seminar on “**Emerging Trends in Spectroscopy**” 19 December **2012**, organised by Department of Physics, Brahmanand College, Kanpur – 208004, INDIA. (Presented a paper titled “*Dielectric Spectroscopic Studies in Glassy $Se_{100-x}Bi_x$* ”)
10. Orientation Workshop on “**Radiation Science & Applications**”, 10-12 Feb. **2012**, organized by UGC-DAE Consortium for Scientific Research, Kolkata Centre & Christ Church College, Kanpur -208001, INDIA
11. Workshop on “**Use of I.C.T. in Teaching and Learning for Competence Building in Faculties**”, 17-18 March **2011**, Sponsored by UGC and organized at Brahmanand College, Kanpur – 208004, INDIA
12. National Conference on “**Nano Materials and its Applications**” 15-16 Feb. **2011**, Sponsored by CSIR, New Delhi and organized at Department of Physics, D.A.V. College, Kanpur – 208001, INDIA

13. National Seminar on “**Recent Advances in Mathematics & its Applications**” 12 Feb. **2011**, Sponsored by UGC and organized at Department of Mathematics, Brahmanand College, Kanpur – 208004, INDIA
14. National Seminar on “**Water Pollution and Health Hazards**”, 01 Feb. **2011**, Sponsored by UGC and organized at Department of Zoology, Brahmanand College, Kanpur – 208004, INDIA
15. National Conference on “**Scientific and Legal Challenges of Global Warming**”, 25-26 Feb. **2008**, organized at Brahmanand College, Kanpur – 208004, INDIA

IMPORTANT LINKS OF SCIENTIFIC NETWORKING SITES

1. Research Gate: https://www.researchgate.net/profile/Suresh_Sharma17
2. Research id: <http://www.researcherid.com/rid/H-7618-2015>

LIST OF PUBLICATIONS

1. **Suresh Kumar Sharma**, R. K. Shukla, Prabhat K. Dwivedi, A. Kumar, *Photoconduction in Amorphous Thin Films of $Se_{90}Sb_{10-x}Ag_x$ Glassy Alloys*, Vol. 90, pp. 1001-1012, **2017**
Phase Transitions, Publisher: Taylor and Francis
2. **Suresh Kumar Sharma**, A. Kumar, D. Kumar, R. K. Shukla, *Dielectric Properties and A.C. Conductivity in Glassy $Se_{90}Sb_{10}$: Estimation of Density of Defect States*, Vol. 6, pp. 615-619, **2017**
Material Focus, Publisher: American Scientific Publisher
3. **Suresh Kumar Sharma**, R. K. Shukla, A. Kumar, D. Sharma, *Presence of two Barrier Heights in $Se_{90}In_8Ag_2$ Glassy Alloys*, Vol. 6, pp. 486-489, **2017**
Material Focus, Publisher: American Scientific Publisher
4. **Suresh Kumar Sharma**, D. Kumar, N. Chandel, N. Mehta, *Study of Thermo-Mechanical and Dielectric Properties in Glassy $Se_{90}In_{10-x}Ag_x$ ($0 \leq x \leq 8$) alloys*, Vol. 6, pp. 453-456, **2017**
Material Focus, Publisher: American Scientific Publisher
5. **Suresh Kumar Sharma**, K. Singh, R. K. Shukla, A. Kumar, *Observation of MN-rule in ac conductivity of glassy $Se_{90}In_{10-x}Ag_x$* , Vol. 4, Issue 3, pp. 238-248, **2016**
Journal of the Chinese Advanced Materials Society, Publisher: Taylor and Francis

6. **Suresh Kumar Sharma**, R. K. Shukla, A. Kumar, *Estimation of density of defect states from A.C. conductivity measurements in glassy alloys of $Se_{90}In_{10-x}Ag_x$* , Vol. 5, pp. 40-45, **2016**
Material Focus, Publisher: American Scientific Publisher
7. **Suresh Kumar Sharma**, R.K. Shukla, A. Kumar, *A.C. conduction in glassy alloys of $Se_{90}Sb_{10-x}Ag_x$* , Vol. 481, pp. 144-147, **2016**
Physica B: Condensed Matter, Publisher: Elsevier
8. **Suresh Kumar Sharma**, D. Kumar, R. K. Shukla, A. Kumar, *Density of Charged Defect States Using A.C. Conductivity Measurement in Glassy Alloys of $Se_{90}M_{10}$ ($M = Ag, In$)* Vol. 4, 2015
Int. J. of Sci. Res.
9. R. Shukla, P. Agarwal, **Suresh Kumar Sharma**, A Kumar, *Crystallization Kinetics in Glassy $Se_{70}Te_{30-x}Ag_x$ ($x = 0, 2, 4, 6$) Using iso-conversional Technique*, Vol. 4, 2015
Int. J. of Sci. Res.
10. **Suresh Kumar Sharma**, S. Yadav, R. K. Shukla, A. Kumar, *Effect of frequency on activation energy of a.c. conduction in $Se_{90}Sb_8Ag_2$ bulk sample*, Mater. Sci. Tech., pp 59-64, (2014)