

## Curriculum Vitae

1. **Name** : Prof. GARIMA JAIN
2. **Designation** : Principal  
D.A.V. (PG) College,  
Muzaffarnagar
3. **Position held at university level** : Dean, Faculty of Science  
M.S. University, Saharanpur  
: Convenor, Board of Studies-Physics,  
M.S. University, Saharanpur  
: Member, Academic Council,  
M.S. University, Saharanpur  
: Member, Board of Studies  
C.C.S. University, Meerut (2020-22)
4. **Mailing Address (Off.)** : D.A.V. College, Arya Samaj Road, Muzaffarnagar (U.P.)  
**(Resi.)** : B-16, Mahavir Residency, Jansath Road, Muzaffarnagar-  
251001 (U.P.)  
**E-mail** : [davicollege066@gmail.com](mailto:davicollege066@gmail.com), [info.davmzn@gmail.com](mailto:info.davmzn@gmail.com)
5. **Contact Number – Telephone (O)** : 0131-2622667  
**Mobile** : 07055108050, 9412553393



### 6. **Educational Credentials**

Examination Passed	Year	Division	Name of Board/ University	Remark
High School	1979	1 <sup>st</sup>	U.P.Board, Allahabad	D-English
Intermediate	1981	1 <sup>st</sup>	-do-	
B.Sc.	1983	1 <sup>st</sup>	Meerut Univ., Meerut	Awarded UP Board Merit Scholarship
M.Sc.	1985	1 <sup>st</sup>	-do-	2 <sup>nd</sup> Rank in University
M.Phil.	1986	1 <sup>st</sup>	-do-	1 <sup>st</sup> Rank in University
Ph.D.	1991	-do-	-do-	JRF and SRF in DST Project

7. **Field of Specialization** : Electronics and Material Science
8. **Academic Honours/Awards**  
(i) Meerut University Merit Scholarship during M.Phil. in the session 1985-86  
(ii) Meerut University Certificate of Merit for securing 1<sup>st</sup> position in M.Phil. in 1986
9. **Academic Experience**  
(a) **Teaching Experience** - 35 years (B.Sc. and M.Sc. Physics)

- (b) **Research Experience** - 37 years (as JRF/SRF, Teaching faculty and Supervisor)  
(Developed Material Science Research Lab in department with facility of Thin Film Coating Unit and electrical characterization)
- (c) **Research Guidance**
- |  |   |    |
|--|---|----|
| (i) No. of candidates awarded Ph.D.    | - | 04 |
| (ii) No. of Thesis submitted           | - | 01 |
| (iii) No. of candidate awarded M.Phil. | - | 03 |
| (iii) No. of M.Sc. projects supervised | - | 30 |
- (d) **Research Publications**  
(In International Journals & conference proceedings) - 32
- (e) **Research Project** - One (UGC sponsored Minor Project); 12.3.2004 – 11.3.2006  
“Study of Tin Selenide Sintered Films”
- (f) **Invited Talks/Resource person** - 14
- (g) **Paper reviewed** - 08  
(For International Journals & International Conference Proceedings)
- Member of Editorial Board of International Conference on Frontiers of Science & Technology (ICFST-17, ICFST-21).
- (h) **Participation in seminars and conferences** - 20  
(National and International)
- (i) **Refresher / Teaching methodology programme attended-** 04  
(More than 2 weeks)
- (j) **Academic programme attended (1 or 2 days)** - 06
- (k) **Books Co-authored (for UG classes)** - 40
- (l) **Subject expert/Member**
- Panel for Ph.D. thesis & synopsis evaluation
  - RDC of Aided / Private Universities
  - University panels for affiliation.
  - Reputed 10+2 schools, colleges and university departments.

### **Administrative and co-curricular contribution:**

- (i) Coordinator, NAAC Steering Committee of the college, January 2017 (2<sup>nd</sup> cycle)
- (ii) Coordinator, Faculty Development program in collaboration with EICT Academy, IITR, 8-16 September 2023.
- (iii) As Deputy Controller (2020), Assistant Controller (2007) at University Evaluation
- (iv) As Addl Superintendent and Asstt. Superintendent in University Exam.
- (v) As Organising Secretary of National Seminar on “Condensed Matter Physics” and “Science & Technology: In context of Human Welfare”.
- (vi) Member, Internal Quality Assurance Cell (IQAC), 2007-2018.
- (vii) Represented Department for DST-FIST proposal at SNBNCBS, Kolkata, 2008
- (viii) As Co-ordinator of Career Guidance and Placement Cell.
- (ix) Managing Editor / Dy. Editor / Member of College Magazine Editorial Board
- (x) Coordinator / Member of various committees e.g., Research Committee, Cultural Committee, Women’s Cell, Proctorial Board, Sports Council, Admission Committee, etc.

### **Extension Activities**

- (i) As N.S.S. programme officer – w.e.f. Sept. 2011 to Nov. 2012
- (ii) Has been actively engaged in various Social Awakening programmes
- (iii) Associated with National Children Science Congress, as resource person/Judge.
- (iv) Has been volunteering for SPIC MACAY.

## Research Publications

1. Exploration of thioacetamide molar concentration on the physical properties of chemically deposited tin sulfide thin films  
Deepti Jain, Garima Jain, Anand Pal, Saurav Chaudhary, R. K. Saini, *Journal of Materials*, DOI:10.1557/s43578-023-01232-1
2. Mixed Phase Formation of SnS-SnO<sub>2</sub> on Air-Annealed Thermally Evaporated SnS Thin Films  
D Jain, G Jain, A Pal, et.al., *Thin Solid Films*, Vol. 780, p. 139973, Sep. 2023, doi: 10.1016/j.tsf.2023.139973
3. A Review on Polymeric Photoluminescent Nanofibers: Inorganic, Organic and Perovskites Additives for Solid-State Lighting Application.  
Sanjeev Kumar, Garima Jain, Kuldeep Kumar, B.P. Singh and S. R. Dhakate. *Polymer Science, series A*. 2022, vol.64, no.5, pp 367-392.
4. Stress-Induced Structural Phase Transition in Polystyrene/NaYF<sub>4</sub>:Eu<sup>3+</sup> Photoluminescent Electrospun Nanofibres.  
Sanjeev Kumar, Garima Jain, Kuldeep Kumar, Ashish Gupta, J.S.Tawale, B.P. Singh, S. R. Dhakate and P.D.Sahare, *Journal of Nanomaterials*, vol. 2022, Article ID 2173629, 10 pages. <https://doi.org/10.1155/2022/2173629>
5. A facile fabrication of poly(methyl methacrylate)/ $\alpha$ -NaYF<sub>4</sub>:Eu<sup>3+</sup> tunable electrospun photoluminescent nanofibers  
Sanjeev Kumar, Garima Jain, Kuldeep Kumar, Ashish Gupta B.P. Singh and S. R. Dhakate, *Applied Nanoscience*, July 2020, Vol. 10, Issue 10, p 3857-3864
6. A novel fabrication of electrospun polyacrylonitrile/NaYF<sub>4</sub>: Eu<sup>3+</sup> light emitting nanofibers  
Sanjeev Kumar, Garima Jain, Kuldeep Kumar, Ashish Gupta B.P. Singh and S. R. Dhakate, *RSC Advances*, 2020, 10, 24855-24861.
7. Doping effect on SnS thin films: A Review  
Deepti Jain, Garima Jain, R.Kumar, *IRJMST*, Vol. 11, Issue 6, 2020.
8. Tunable Photoluminescence of Polyvinyl Alcohol Electrospun Nanofibers by Doping of NaYF<sub>4</sub>: Eu<sup>3+</sup> Nanophosphor  
Sanjeev Kumar, Garima Jain, B.P. Singh and S. R. Dhakate, *Journal of Nanomaterials*, 2020, Article ID 1023589,1-8.

- 9. Temperature dependence of some thermo-physical properties PbTe pellets**  
Vichitra Kumar, Garima Jain, V.Kishor, et.al., *Advanced Science Engg and medicine*, Vol. 11, Number 7, July 2019, p 659-661, ISSN-2164-6635 (online)
- 10. Advance Carbon materials and their applications.**  
Sanjeev Kumar, Garima Jain, et.al.. "ISST J. of Applied Physics", Vol. 8, Number 2, Dec 2017, p 63-70, ISSN-09769031
- 11. Effect of Structural changes on Mechanical Properties of Sintered Films.**  
R.K.Saini, Garima Jain, et.al.. "Journal of Advances in Physics", Vol. 12, Number 1, July 2016, p.4141-4144, ISSN-2344-3487
- 12. Synthesis of Multiwalled Carbon Nanotubes (MWCNTs) by Chemical Vapour Deposition (CVD) Technique.**  
Sanjeev Kumar, S.R.Dhakate, B.P.Singh & Garima Jain "ISST Journal of Applied Chemistry", Vol. 5, No.2, December 2014, p.76-78 (ISSN 0976-7335)
- 13. Design and Analysis of a Novel Low Actuated Voltage Rf MEMS shunt Capacitive Switch.**  
Prashant Kumar Gupta, Tejbir Singh, Garima Jain, D.K.Awasthi. "International Journal for Research in Applied Science and Engineering Technology", Vol. 2, 2014, p.50-54
- 14. Structural and electrical characterization of sintered SnTe films**  
R.K.Saini, R.Kumar, G.Jain et.al. "Chalcogenide Letters" Vol.7, No. 3, 2010, p.197 – 202.
- 15. Composition effects on properties on  $PbS_{1-x}Se_x$  thin films**  
R.Kumar, G. Jain, R.K.Saini, "Chalcogenide Letters" Vol. 7, No. 4, 2010, p.233-240.
- 16. Active-C current mode biquad filter**  
Kiran Pal, Garima Jain & Kirat Pal, "Journal of Active and Passive Electronic Devices", USA 2010, Vol.5 pp, 47-52.
- 17. High Q grounded capacitor current mode band pass filter using DVCC / I DCC II**  
Kiran Pal, Garima Jain & Kirat Pal, "Journal of Active and Passive Electronic Devices" USA 2010, Vol.5 pp, 99-104.
- 18. Optical studies of  $SnTe_xSe_{1-x}$  sintered films**  
R.K.Saini, R.Kumar and G. Jain, "J. of Optical Materials" 32, 2009 p.297- 301.

19. Electrical properties of  $\text{SnTe}_x\text{Se}_{1-x}$  sintered films  
R.K.Saini, R. Kumar and Garima Jain et.al. "Optoelectronics and Advanced Materials- Rapid Communications" Vol. 3, No. 1, 2009, p.49-52.
20. Electrical and Optical properties of Tin Oxide and Antimony doped Tin Oxide films  
R.Kumar and G.Jain, "Journal of Optical Materials", Vol.26, 2004, 27-31.
21. Transport properties of chemically prepared PbS films  
T.P.Sharma, R.Kumar and G.Jain, "Indian Journal of Pure and Applied Physics", Vol.29, 1991, 583-585
22. Photoconduction in amorphous selenium alloy films.  
S.C.K.Mishra, T.P.Sharma, R.Kumar and G.Jain, "Indian Journal of Technology", Vol. 8, 1990, 205-207, ISSN 0019-5669
23. Optical Properties of Indium Selenide Thin Films  
T.P.Sharma, R.Kumar, G.Jain et. al., "Indian J. of Pure and Applied Physics", Vol. 28, 1990 486-489
24. Study of Cu doping on PbS thin films  
T.P.Sharma, R.Kumar, G.Jain et al. "Modern Physics Letters B" 3 (11), 1989, 825.
25. Partial Replacement of Aggregates using Coconut Coir in Concrete Manufacturing  
Ranjeet Singh, Garima Jain et. al.; National Conference on Frontiers in Material Research & Applications (FMRA-2016), Oct. 27-28, 2016 at Shaheed Bhagat Singh State Technical Campus, Ferozepur.
26. Enhancing Skills through Skill India Initiative  
Garima Jain, R. Kumar, R.K.Saini; Proceedings of Skill India Initiative: Challenges, Opportunities and Strategies, Feb 27-28, 2016 at S.D. College of Management Studies, Muzaffarnagar.
27. Tin Selenide Sintered Films: Nano structured Bulk Material  
Garima Jain, R. Kumar, R.K.Saini; International Conference on "Frontiers in Materials Research and Applications", 30-31 October 2014, Shaheed Bhagat Singh State Technical Campus, Ferozpur (Punjab).
28. Mechanical Studies of SnTe sintered nano crystalline films  
R.K.Saini, Garima Jain, R.Kumar; Proceedings of National workshop on "Advancement of Nano materials and Applications" D.A.V. (PG) College, Kanpur, 9-11 February 2012

**29. Role of SMART Materials in future technology.**

Jitendra Gaur, Vipin Kumar, Dharendra Sharma, Garima Jain; Proceedings of National Conference on “Recent Drifts, Breaks in Applied Sciences and its Technology”, Krishna Institute of Engineering and Technology, Ghaziabad, 7-9 August 2009

**30. Preparation and characterization of Nano Crystalline SnTe films**

R.K.Saini, Garima Jain, R.Kumar, Monika Singh, Pallavi Agarwal; Proceedings of National Conference on “Recent Drifts, Breaks in Applied Sciences and its Technology”, Krishna Institute of Engineering and Technology, Ghaziabad, 7-9 August 2009

**31. Optical Studies of Lead Telluride Pellets**

V.Kumar, G.Jain, R.Kumar et. al.; Proceedings of International Conference on Optics & Optoelectronics, 12-15 December, 2005, IRDE, Dehradun

**32. A High ‘Q’ Band Pass Filter using Current Conveyors**

Kiran Pal, G.Jain & Kirat Pal; Proceedings of National Conference on Modern Trends in Electronics and Communication Systems, March 5-6, 2005, A.M.U., Aligarh

## LIST OF BOOKS CO-AUTHORED

## B.Sc. Physics Unified Course and NEP-2020

S.N.	Title of the Book	Authors	ISBN NO.	Publication
1	Mechanics and Wave Motion	Agarwal, Jain & Sharma	978-81-8283-160-5	Krishna Prakashan, Meerut
2	Kinetic Theory and Thermodynamics	Agarwal, Jain & Sharma	978-81-8283-178-0	Krishna Prakashan, Meerut
3	Circuit Fundamentals and Basic Electronics	Agarwal, Jain & Sharma	978-81-8283-179-7	Krishna Prakashan, Meerut
4	यांत्रिकी एवं तरंग गति	Agarwal, Jain & Sharma	978-81-8283-326-5	Krishna Prakashan, Meerut
5	अणुगति सिद्धान्त एवं उष्मा गतिकी	Agarwal, Jain & Sharma	978-81-8283-271-8	Krishna Prakashan, Meerut
6	परिचय के मूल सिद्धान्त एवं वैश्विक इलेक्ट्रॉनिक्स	Agarwal, Jain & Sharma	978-81-8283-328-9	Krishna Prakashan, Meerut
7	B.Sc. Physics Practical- I (1st Year)	Agarwal, Jain & Sharma	978-81-8283-202-5	Krishna Prakashan, Meerut
8	Physical Optics and Lasers	Agarwal, Jain & Sharma	978-81-8283-320-3	Krishna Prakashan, Meerut
9	Elements of Quantum Mechanics, Atomic & Molecular Spectra	Agarwal, Jain & Sharma	978-81-8283-322-7	Krishna Prakashan, Meerut
10	भौतिकीय प्रकाशिकी एवं लेजर	Agarwal, Jain & Sharma	978-81-8283-323-4	Krishna Prakashan, Meerut
11	क्वाण्टम यांत्रिकी के अवयव एवं परमाणवीय व आणविक सिद्धान्त	Agarwal, Jain & Sharma	978-81-8283-325-8	Krishna Prakashan, Meerut
12	B.Sc. Physics Practical- II (2nd Year)	Agarwal, Jain & Sharma	978-81-8283-200-8	Krishna Prakashan, Meerut
13	Atomic, Molecular & Laser Physics	Agarwal, Jain & Sharma	978-81-8283-194-0	Krishna Prakashan, Meerut
14	Solid State & Nuclear Physics	Agarwal, Jain & Sharma	978-81-8283-195-1	Krishna Prakashan, Meerut
15	Solid State Devices & Electronics	Agarwal, Jain & Sharma	978-81-8283-196-4	Krishna Prakashan, Meerut
16	परमाणवीय, आणविक एवं लेजर भौतिकी	Agarwal, Jain & Sharma	978-81-8283-197-1	Krishna Prakashan, Meerut
17	डॉग अवस्था एवं नाभिकीय भौतिकी	Agarwal, Jain & Sharma	978-81-8283-198-8	Krishna Prakashan, Meerut
18	डोमावस्था युक्तियां एवं इलेक्ट्रॉनिक्स	Agarwal, Jain & Sharma	978-81-8283-199-5	Krishna Prakashan, Meerut
19	Mechanics and Relativity	Agarwal, Jain & Sharma	978-81-8283-188-9	Krishna Prakashan, Meerut
20	Electricity, Magnetism and Electro-magnetic theory	Agarwal, Jain & Sharma	978-81-8283-189-6	Krishna Prakashan, Meerut
21	Mathematical Methods and Oscillations, Waves	Agarwal, Jain & Sharma	978-81-8283-190-2	Krishna Prakashan, Meerut
22	यांत्रिकी एवं आपेक्षिकता	Agarwal, Jain & Sharma	978-81-8283-191-9	Krishna Prakashan, Meerut
23	वैद्युतिकी, चुम्बकत्व एवं वैद्युतचुम्बकत्व सिद्धान्त	Agarwal, Jain & Sharma	978-81-8283-192-6	Krishna Prakashan, Meerut
24	गणितीय विधियां, होपन तथा तरंगें	Agarwal, Jain & Sharma	978-81-8283-193-3	Krishna Prakashan, Meerut
25	Optics	Agarwal, Jain & Sharma	978-81-8283-040-0	Krishna Prakashan, Meerut
26	Kinetic Theory & Thermodynamics	Agarwal, Jain & Sharma	978-81-8283-037-0	Krishna Prakashan, Meerut
27	Quantum Mechanics & Statistical Mechanics	Agarwal, Jain & Sharma	978-81-8283-041-9	Krishna Prakashan, Meerut
28	प्रकाशिकी	Agarwal, Jain & Sharma	978-81-8283-043-5	Krishna Prakashan, Meerut
29	अणुगति सिद्धान्त एवं उष्मा गतिकी	Agarwal, Jain & Sharma	978-81-8283-042-7	Krishna Prakashan, Meerut
30	क्वाण्टम यांत्रिकी ग्राह्यकीय यांत्रिकी	Agarwal, Jain & Sharma	978-81-8283-044-3	Krishna Prakashan, Meerut
31	B.Sc. Physics Practical- III (3rd Year)	Agarwal, Jain & Sharma	978-81-8283-201-5	Krishna Prakashan, Meerut
32	Objective Physics	R.K.Agarwal, Garima Jain	978-93-84538-72-9	Jai Prakash Nath & Co, Meerut
33	बन्धुनिष्ठ भौतिक विज्ञान	R.K.Agarwal, Garima Jain	978-93-84538-04-0	Jai Prakash Nath & Co, Meerut
34	Practical Physics (Mechanical Properties of Matter	R.K.Agarwal, Garima Jain	978-93-91576-46-2	Divya Lakshmi Publishers & Distributors
35	सूत्रानुबन्ध यांत्रिकी	R.K.Agarwal, Garima Jain, Rekha	978-93-91152-04-8	Krishna Prakashan, Meerut
36	Thermal Physics and Semiconductor Devices	R.K.Agarwal, Garima Jain	978-93-91576-42-4	Divya Lakshmi Publishers & Distributors
37	दृश्यीय भौतिकी व अर्धचालक युक्तियां	R.K.Agarwal, Garima Jain	978-93-91576-51-6	Divya Lakshmi Publishers & Distributors
38	Electromagnetic Theory	R.K.Agarwal, Garima Jain	978-93-91576-47-9	Divya Lakshmi Publishers & Distributors
39	Physical Optics and Lasers	R.K.Agarwal, Garima Jain	978-93-91576-47-9	Divya Lakshmi Publishers & Distributors
40	Demonstrative Aspects of electricity and Magnetism	R.K.Agarwal, Garima Jain	--	Divya Lakshmi Publishers & Distributors