

## Curriculum vitae



1.Name: Dr. Jyotshana Gaur

2.Designation: Assistant Professor

3.Subject: Physics

4.Academic Qualifications: M.Sc., M.Phil., Ph.D

5.Areas of interest/Specialization: Thin Films and Nanotechnology

6.Date of Birth: 20 May 1984

7.Date of Joining: 15 Sep 2021

8.Experience: 04 Years

- Worked as Assistant Professor in SRM University, NCR Campus, Modinagar from 6 Sep 2011 to 22 Oct 2012.
- Worked as Assistant Professor in MONAD University, Hapur from 7 Oct 2014 to 31 Dec 2015.
- Working as Assistant Professor in Raghunath Girls Post Graduate College, Meerut from 15 September to till date.

9.Official Address: PCM Department,

Raghunath Girls' Post Graduate College, Meerut

10.Contact no. : 7834846973

11.Email: jyotshanahiti@gmail.com

12.Areas of research: Thin Films and Nanotechnology

13.Achievements:

Received scholarship by University for two years i.e.1 April 2015 to 31March 2017.

**14. Research Papers published:-**

<i>S.No</i>	<i>Title of the paper published (with Page no.)</i>	<i>Research Journal (withVol.no.)</i>	<i>Year</i>	<i>ISSN</i>	<i>Whether peer reviewed ,UGC listed, Impact Factor if any</i>	<i>Digital Link, if any</i>
1.	<i>Enhancement of photosensitivity of thermally evaporated crystalline PbS thin films by low energy oxygen ions implantation</i>	<i>Nano Express,1 (2) (2020).</i>	2020		<i>Peer reviewed</i>	10.1088/2632-959X/ab878
2.	<i>Effect of growth temperature and RF power on structural and optical properties of sputtered deposited PbS thin films</i>	<i>Indian Journal of Pure and Applied Physics, 57 (2019) 709.</i>	2019		<i>Peer reviewed Impact factor-0.7</i>	<a href="https://doi.org/10.56042/ijpap.v57i10.25616">10.56042/ijpap.v57i10.25616</a>
3.	<i>Bacterial compatibility of biogenic silica (b-</i>	<i>Nanomaterials, 9 (2019) 1440.</i>	2019		<i>Peer reviewed Impact</i>	<a href="https://doi.org/10.3390/nano9101440">10.3390/nano9101440</a>

	<i>SiO<sub>2</sub>) nanoparticles synthesized from biomass rice husk ash</i>				<i>factor-5.719</i>	
4.	<i>Template free synthesis of PbS nanoparticles by sol-gel facile method under IR radiation at room temperature</i>	<i>Applied Innovative Research, 1(2019) 101.</i>	2019		<i>Peer reviewed</i>	<a href="https://doi.org/10.56042/air.v1i2.25789">10.56042/air.v1i2.25789</a>
5.	<i>Theory of the Structure of Vanadyl Ion.</i>	<i>International Journal of Education and Science Research, 1(6) (2014) 80.</i>	2014	ISSN 2348-6457	<i>Peer reviewed</i>	
6.	<i>Cascade Structural Analysis and Characterization of High- Temperature Superconductivity</i>	<i>International Journal of Education and Science Research, 1(2) (2014) 164.</i>	2014	ISSN 2348-6457	<i>Peer reviewed</i>	
7.	<i>Effect of annealing on properties of transparent conducting tin oxide films deposited by thermal evaporation</i>	<i>Indian journal of Pure &amp; Applied Physics, 51 (2013) 558.</i>	2013	0975-1041	<i>Peer reviewed Impact factor-0.7</i>	<a href="http://nopr.niscaipr.res.in/handle/123456789/19929">http://nopr.niscaipr.res.in/handle/123456789/19929</a>
8.	<i>Wavelets for the Fast Solution of Ordinary Differential Equations</i>	<i>International Journal of Soft Computing and Engineering (IJSCE) 2(4) 2012, 287.</i>	2012	2231-2307	<i>Peer reviewed</i>	

### **15. Faculty Enrichment Programme Attended:**

<i>S.No</i>	<i>Detail of the FDP/FEP</i>	<i>Date(s) of the event</i>	<i>Organizer &amp; Sponsor</i>	<i>International/National/ State/ University</i>
1.	Attended five days workshop and faculty Development program on “Propagation and uses of Medicinal herbs and Bio-Composting”	14-18 Nov. 2022	Plant Conservation Society Department of Botany and IQAC, Raghunath Girls’ Post Graduate College, Meerut,	University
2.	National conference on topic “Induction Training for Teachers At Higher Education Institutions (HEIs) Today’s need for Enhancing quality of Higher Education”	22 Dec. 2022	Raghunath Girls’ Post Graduate College, Meerut,	National

**16.Seminar/ Workshop/ Conference Attended:**

<i>S.No</i>	<i>Detail of the Conference/ Seminar</i>	<i>Organizer &amp; Sponsor</i>	<i>Date(s) of the event</i>	<i>Venue of the event</i>	<i>International/National/ State/ University</i>
1.	IP Awareness/Training program under “National Intellectual Property Awareness Mission	Intellectual Property Office, India	27 April 2023	Lajpat Rai College, Sahibabad, Ghaziabad, U.P.	<i>University</i>
2.	National Webinar Series on “Various Aspects of Intellectual Property Rights (IPR) Lecture-2 Introduction to patents and Patents drafting	IQAC Lajpat Rai College, Sahibabad, Ghaziabad, U.P.	21 April 2023	IQAC Lajpat Rai College, Sahibabad, Ghaziabad, U.P.	<i>University</i>
3.	Seven days workshop on “Universal Human Values & Ethics”	Department of Psychology, Raghunath Girls’ Post Graduate College, Meerut	15-21 April 2023	Raghunath Girls’ Post Graduate College, Meerut	<i>University</i>
4.	Symposium on “Role of Women in Innovation and Start-up under India’s G-20 Presidency”	RGPG Innovation Centre Raghunath Girls’ Post Graduate College, Meerut in collaboration with Srijan Sanchar, New Delhi	13 Feb. 2023	Raghunath Girls’ Post Graduate College, Meerut	<i>University</i>

5.	One day Workshop on “Research Training in Theory & Experiments under SERB-Scientific Socail Responsibility Policy”	Department of Physics Ch. Charan Singh University, Meerut	09 Jan. 2023	Department of Physics Ch. Charan Singh University, Meerut	<i>State University</i>
6	One week Workshop on “Introduction, Synthesis and characterization of Nanomaterials	Jointly organized by Centre of International co-operation, Ch. Charan Singh University, Meerut, India and Central Connecticut State University, New Britain, USA	16-21 Decem ber 2019	Ch. Charan Singh University, Meerut	<i>International</i>
7.	<i>National Seminar on Role of Ion Beam in Materials Science and Acquaintance Programme on Ion Bead Facilities at IUAC New Delhi.</i>	<i>Department of Physicy, Ch. Charan Singh University, Meerut</i>	<i>20 Sepemb er2013</i>	<i>Department of Physics, Ch. Charan Singh University, Meerut</i>	<i>National</i>
8.	<i>National Workshop on Recent Trends in NanoScience &amp; NanoTechnology: Applications and Advantages.</i>	<i>Dr. K.N. Modi foundation Hapur Road Modinagar U.P,</i>	<i>9 April, 2011.</i>	<i>Dr. K.N. Modi foundation Hapur Road Modinagar U.P,</i>	<i>National</i>

9.	<i>National Seminar on Recent Trends in Advancements of Mathematical and Physical Sciences,</i>	<i>D.N. College, Meerut,</i>	<i>5-6 February 2011</i>	<i>D.N. College, Meerut,</i>	<i>National</i>
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**17.Seminar/ Workshop/ Conference/ Exhibitions Organised:**

<i>S. No.</i>	<i>Details of the conference/Seminar/Exhibitions (Including Sponsor)</i>	<i>Date(s) of the event</i>	<i>Venue of the event</i>	<i>International/National/ State/ c</i>	<i>Role</i>
1.	<i>National Conference on Green Chemistry</i>	<i>18-19 September 2012</i>	<i>SRM University, NCR Campus, Modinagar, Ghaziabad</i>	<i>National Conference</i>	<i>Member of Organising committee</i>

**18.Invited lectures/ Resource person/ Paper Presented in Conferences/ Seminar/ Workshops:**

<i>S.No</i>	<i>Title of the Invited Lecture/paper presented</i>	<i>Detail of the Conference/ Seminar( including organizer&amp; Sponsor)</i>	<i>Date(s) of the event</i>	<i>Venue of the event</i>	<i>International/National/ State/ University</i>	<i>Role</i>
1.	<i>Studies of Structural and Optical properties of Oxygen ion</i>	<i>National Seminar on Recent Trends in Basic and</i>	<i>13 March 2022</i>	<i>Durga Prasad Baljeet Singh (PG)</i>	<i>National Seminar</i>	<i>Poster Presentation</i>

	<i>implanted PbS thin films</i>	<i>Applied Sciences, Durga Prasad Baljeet Singh (PG) College, Anoopshahr, Bulandshahr U.P.</i>		<i>College, Anoopshahr, Bulandshahr U.P.</i>		
2.	<i>Effect of Fluence on Oxygen ion implanted PbS thin films</i>	<i>Prospectives of Interdisciplinary Research in Science and Technology in Present scenario</i>	<i>15-16 May 2020</i>	<i>Department of Physics Ch. Charan Singh University, Meerut, India.</i>	<i>International Webinar</i>	<i>Poster Presentation</i>
3.	<i>Effect of RF power on the synthesis and growth of PbS thin films:</i>	<i>CONIAPS-XXIV, 2019, Ch. Charan Singh University, Meerut, India.</i>	<i>9-11 August 2019</i>	<i>Ch. Charan Singh University, Meerut, India.</i>	<i>International conference</i>	<i>Paper Presented</i>
4.	<i>Uniform and crystalline growth of PbS thin films from sputtering by controlling RF power</i>	<i>ICAM-2019, Jamia Millia Islamia Central University, New Delhi, India.</i>	<i>6-7 March 2019</i>	<i>Jamia Millia Islamia Central University, New Delhi, India.</i>	<i>International Conference</i>	<i>Paper Presented</i>
5.	<i>Effect of Oxygen Ion implantation on vacuum</i>	<i>Recent Advances in Experimental and</i>	<i>17-18 April 2018</i>	<i>Central University of Jammu, J&amp;K,</i>	<i>Central University</i>	<i>Oral Paper Presentation</i>



	<i>deposited PbS thin films</i>	<i>Theoretical Physics (RAETP-2018), Central University of Jammu, J&amp;K, Jammu, India</i>		<i>Jammu, India</i>		
6.	<i>“Women’s Health, Education and Employment: Legal Problems and Prospects</i>	<i>Seminar on “Women’s Health, Education and Employment: Legal Problems and Prospects</i>	14 February 2015	<i>Monad University, Hapur (U.P.)</i>	<i>State University</i>	<i>Paper Presented</i>

19. **Administrative Experience**:-AQAR incharge of PCM Deptt.

20. **Future plans**: To publish research papers in ugc-care listed journals.