


RESUME

Title	Ms.	First Name	Chanchal	Last Name	Yadav	Photograph
Designation	Assistant Professor					
Address	Hansraj College, (University of Delhi) New Delhi-110007					
Residence	L-309, DDA LIG Flats, Molarband, Gautampuri, Sarita Vihar, New Delhi-110076					
Email	chanchalyadav@hrc.du.ac.in					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Topic: Structural properties of confined atomic systems and their response to external fields From: University of Delhi				Pursuing (since Jun, 2019)	
M.Tech.	Topic: Comparative study of techniques to estimate the permittivity of polymer film at microwave frequency From: Indian Institute of Technology, Kanpur				2010	
PG	M.Sc. Physics (with specialization in Electronics), Miranda House College, University of Delhi				2007	
UG	B.Sc.(H) Physics, Miranda House College, University of Delhi				2005	
Career Profile						
<ol style="list-style-type: none"> Nov, 2022 to present: Assistant Professor, Department of Physics, Hansraj College, University of Delhi. Feb, 2011 to Nov, 2022: Assistant Professor (ad hoc), Department of Physics and Electronics, Rajdhani College, University of Delhi. Jul, 2010 to Feb, 2011: Assistant Professor (ad hoc), Department of Physics, Gargi College, University of Delhi. 						
Areas of Interest / Specialization						
<ol style="list-style-type: none"> Expertise in MATLAB, SCILAB, C and C++ programming. Experience of writing scientific manuscripts on Latex, Ms-Office. 						

Subjects Taught

2022-23:

Signals and Systems (Core course)	Theory+Lab
Mathematical Physics-I (DSC-I)	Lab
Numerical Analysis (SEC)	Lab
Mathematical Physics-II (DSC)	Lab

Previous years:

1. Applied Physics
2. Signals and Systems
3. C Programming and Data Structures
4. Mathematical foundations for Electronics
5. Digital Electronics
6. Analog Devices and Applications

Publications Profile

Chapter in Book Published

1. Contributed a chapter entitled **Signals and Systems** in Basic Electronics with Simulations and Experiments, for students of honours / pass courses in electronics and physics, published with Khanna Publishers with ISBN 978-81-952075-5-8 (2021).

Chapters for Developing E-Content

1. **Chanchal Yadav** "Counter" in paper "Digital Electronics" for B.Sc. (H.) Physics uploaded on ILL, vle.du.ac.in, ISSN 2349-154X. Institute of Lifelong Learning, University of Delhi.
2. **Chanchal Yadav** "Shift Register" in paper "Digital Electronics" for B.Sc. (H.) Physics uploaded on ILL, vle.du.ac.in, ISSN 2349-154X. Institute of Lifelong Learning, University of Delhi.

List of Research Papers Published in the Proceedings of International / National Conferences

1. **Chanchal Yadav**, Sonia Lumb, Shalini Lumb Talwar, and Vinod Prasad, Dynamic polarizabilities for screened potentials modified by ring potential, AIP Conference Proceedings 2220, 130063 (2020).

List of Research Papers Published in the International Journals

1. Monika Arora, Rajesh Giri, Varsha, Kirtee Kumar, **Chanchal Yadav**, Bhavna Vidhani, Monica Gambhir, Vinod Prasad, Effect of electric and magnetic field on thermal property of two dimensional harmonic oscillator. Results in Physics **45**, 106225 (2023).
2. K. D. Sen, Kirtee Kumar, **Chanchal Yadav**, and Vinod Prasad, Multipole polarizabilities and dipole oscillator strengths of H-atom in nonideal classical plasmas. Eur. Phys. J. Plus **137**, 78 (2022).
3. **Chanchal Yadav**, Sonia Lumb, and Vinod Prasad, Static multipole polarizabilities of H-atom in modified ring-shaped potentials, *Eur. Phys. J. D* **75**, 21 (2021).
4. **Chanchal Yadav**, Transmission-Reflection Method to Estimate Permittivity of Polymer, International Journal of Emerging Technology and Advanced Engineering (ISSN 2250-2459), **4**, 5 (2014).
5. **Chanchal Yadav**, Analysis of Microstrip Coupling Gap to Estimate Polymer Permittivity, International Journal of Engineering Research & Technology (ISSN 2278-0181), **3**, 5 (2014).
6. **Chanchal Yadav**, A Comparative Study of Resonator Based Method to Estimate Permittivity, International Journal of Engineering Research & Technology (ISSN 2278-0181), **3**, 6 (2014).

Publications in the Last one year

1. Monika Arora, Rajesh Giri, Varsha, Kirtee Kumar, **Chanchal Yadav**, Bhavna Vidhani, Monica Gambhir, Vinod Prasad, Effect of electric and magnetic field on thermal property of two dimensional harmonic oscillator. Results in Physics **45**, 106225 (2023).
2. K. D. Sen, Kirtee Kumar, **Chanchal Yadav**, and Vinod Prasad, Multipole polarizabilities and dipole oscillator strengths of H-atom in nonideal classical plasmas. Eur. Phys. J. Plus **137**, 78 (2022).

Conference Poster/Oral Talk Presentations (in the last three years)

List of poster presented in International / National Conferences

1. Presented a poster entitled “**Confinement effect on bounded systems**” in International conference on Physics, Society and Technology (ICPST-2019) organized from Jan 17-19, 2019 by department of physics, Deshbandhu College, University of Delhi.
2. Presented a poster entitled “**Dynamic polarizabilities for screened potentials modified by ring potential**” in 3rd International Conference on Condensed Matter & Applied Physics (ICC-2019) organised from Oct 14-15, 2019 by Govt. Engineering College, Bikaner, India.
3. Delivered an oral talk entitled “**Static multipole polarizabilities of H-atom in modified ring-shaped potentials**” in Online International Conference on Recent Advances in Functional Materials (RAFM-2022) organized from Mar 14-16, 2022 by Department of Physics, ARSD

College, University of Delhi, India.

4. Presented online a poster entitled “**Laser interaction with plasma confined hydrogenic atoms**” in International Conference on Frontiers in Physics, Materials Science and Nanotechnology (FPMSN-2022) organised from Mar 25-26, 2022 by Department of Physics, CDL University, Sirsa-125055, Haryana, India.

Awards and Distinctions

1. Qualified **UGC NET in Electronic Science** held on Jun 30, 2013.
2. Received **Junior Research Fellowship (JRF)** from Council of Scientific and Industrial Research for two years and **Senior Research Fellowship (SRF)** for one year during M.Tech. I.I.T. Kanpur.
3. Qualified **CSIR-UGC JRF & Eligibility for Lecturership-NET** in the subject **Physical science** held on 24th Dec, 2006.
4. Qualified **GATE-2007** (Graduate Aptitude Test in Engineering) held on 11th Feb, 2007.
5. Received **Meera Singla Memorial Scholarship** during graduation at Miranda House.
6. Received **Science Meritorious Award** twice (2003, 2004) from University of Delhi.

Other Activities

Refresher Course

- ❖ Successfully completed online Two-Week Refresher Course in **Physics** organized by Teaching Learning Centre, Ramanujan College, University of Delhi from Oct 27 – Nov 10, 2021 with A+ grade.
- ❖ Successfully completed online Two-Week Refresher Course in **Natural Sciences** organized by Teaching Learning Centre, Ramanujan College, University of Delhi from Sept 20 – Oct 4, 2021 with A+ grade.

Orientation Programme

- ❖ Successfully completed one month **Faculty Induction Programme** organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi from Dec 1 – Dec 30, 2022 with A grade.
- ❖ Successfully completed a 4-Week **Induction/Orientation Programme** organized by Teaching Learning Centre, Ramanujan College, University of Delhi from Jun 4 – Jul 1, 2020 with A grade.

Faculty Development Programme

- ❖ Successfully completed Two-Week Faculty Development Programme on **Managing Online Classes & Co- creating MOOCS 2.0** organized by Teaching Learning Centre, Ramanujan College, University of Delhi from May 18 – Jun 3, 2020 with A+ grade.

Training, Workshop and Webinar

- ❖ Attended an online school “ISAMP School on Penning Trap” held during Dec 26-30, 2021 organized by Indian Society of Atomic and Molecular Physics.
- ❖ Participated in an online webinar on “How to publish scholarly books with Taylor and Francis” on Nov 29, 2021 organized by Swami Shraddhanand College, University of Delhi.
- ❖ Successfully attended the international webinar on “Introduction to MATLAB” organized by the Department of Mathematics, JSSATE Noida on Sept 17, 2021.
- ❖ Successfully attended three-day online workshop on “Programming and Software Tools for UG courses” held during Mar 19-21, 2021 organized by Department of Physics and Electronics, Rajdhani College, University of Delhi.
- ❖ Participated in the International conclave on Contemporary Physics: The New Paradigm Shift-II series” organized by IQAC, Rajdhani College, University of Delhi from Feb 27-28, 2021.
- ❖ Attended three day online national workshop on “Challenges on teaching Physics laboratory courses in online mode” organized by Department of Physics, Kalindi College, University of Delhi held on Jan 23-25, 2021.
- ❖ Attended a webinar on “Basics of Planning your Research Article Writing” jointly organized by Ambedkar University Delhi and Elsevier on Jun 29, 2020.
- ❖ Attended national webinar on “Using SPSS to understand Research and Data Analysis” on May 21, 2020 organized by Aditi Mahavidyalaya, University of Delhi.
- ❖ Successfully attended hands on workshop on “VHDL Programming & Digital Circuit Designing with Implementation on FPGA” from Oct 03-06, 2018 organized by Department of Electronics, Deen Dayal Upadhyaya College, University of Delhi.
- ❖ Attended national workshop on “VLSI designing using VERILOG coding” held at B.C.A.S., University of Delhi from Jul 16-18, 2013.
- ❖ Participated in the workshop on “Training on ExpEYES design kit” held at B.C.A.S., University of Delhi on 28th Jan, 2012.

- ❖ Participated in the training program for “C and C+ + programming language” organized by I.L.L.L., University of Delhi from Jun 8-15, 2011.
- ❖ Successfully attended a workshop on “Scilab and its Applications” from Mar 10-11, 2011 held at Acharya Narendra Dev College, University of Delhi.

(Ms. Chanchal Yadav)

Last updated on 1st Feb, 2023