




**DEPARTMENT OF PHYSICS**  
**DYAL SINGH COLLEGE, UNIVERSITY OF DELHI**  
**FACULTY DETAIL**



Title	Dr.	First Name	URVASHI	Last Name	ARYA	Photograph
Designation	ASSISTANT PROFESSOR					
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Web-Page						
Educational Qualifications						
Degree	Institution					Year
BSc. (H) Physics	MIRANDA HOUSE, DELHI UNIVERSITY					2000
MSc.(Physics)	HINDU COLLEGE, DELHI UNIVERSITY					2002
Ph.D.	DELHI UNIVERSITY					2014
Career Profile						
<p>❖ I am working as Assistant Professor, Department of Physics in Dyal Singh College Since March 2016.</p> <p>❖ I worked as Assistant Professor, Department of Physics in Shivaji College from January 2014 to July 2015.</p> <p>❖ I worked as Assistant Professor, Department of Physics in Shyamlal College from August 2015 to March 2016</p>						
Administrative Assignments (From 1 <sup>st</sup> July 2019 onwards)						
<p>❖ Member of Physics Society (COSMOS) (in academic sessions 2018-2019, 2019-2020, 2020-2021,2021-2022, 2022-2023,2023-2024,2024-2025).</p> <p>❖ Member of Admission Committee (in academic sessions 2018-2019, 2019-2020, 2020-2021,2021-2022, 2022-2023,2023-2024,2024-2025).</p> <p>❖ Member of Mentor-Mentee Committee (in academic session 2020-2021, 2021-2022, 2022-2023,2023-2024, 2024-2025).</p> <p>❖ Member of Parent Teacher Association (PTA) committee (in academic session 2021-2022, 2022-2023).</p> <p>❖ Member of NAAC Committee for Physics Department (in academic session 2022-2023,2023-2024).</p>						

<p>❖ <b>Convenor of Parent Teacher Association (PTA) committee (in academic session 2021-2022, 2023-2024, 2024-2025).</b></p> <p>❖ <b>Member of IQAC Committee Sustainability Forum (in academic session 2023-2024,2024-2025).</b></p>
<b>Areas of Interest / Specialization</b>
<b>Atomic and Molecular Physics</b>
<b>Subjects Taught</b>
<p>❖ <b>Waves and Optics Theory</b></p> <p>❖ <b>Thermal and Statistical Physics Theory</b></p> <p>❖ <b>Mechanics Theory</b></p> <p>❖ <b>Light and Matter Theory</b></p> <p>❖ <b>Mechanics Lab</b></p> <p>❖ <b>Light and Matter Lab</b></p> <p>❖ <b>Thermal and Statistical Physics Lab</b></p> <p>❖ <b>Electricity and Magnetism Lab</b></p> <p>❖ <b>Electricity and Magnetism Lab</b></p> <p>❖ <b>Renewable Energy and Energy Harvesting Lab</b></p> <p>❖ <b>Elements of Modern Physics Lab</b></p> <p>❖ <b>Solid State Physics Lab</b></p>
<b>Research Guidance</b>
<b>NO</b>
<b>Publications Profile</b>
<p>(Mention total no. and details from 1<sup>st</sup> July 2019 onwards only)</p> <p><b>NO</b></p>
<b>Conference Organization/ Presentations (From 1<sup>st</sup> July 2019 onwards)</b>
<p style="text-align: center;"><u><b>Conferences/ Workshops/Refresher Courses/FDP Attended</b></u></p> <p>❖ <b>Two-week Refresher Course in “Physics” Conducted by Teaching Learning Centre Ramanujan College, University of Delhi from 30 March – 12 April, 2024</b></p> <p>❖ <b>One week Faculty Development Programme on “Developing Moocs” Conducted by Teaching Learning Centre Ramanujan College, University of Delhi from 25 -31 December, 2023</b></p>

- ❖ Faculty Induction Programme for “NEP 2020: Pedagogical imperatives of higher education” Conducted by University of Delhi on 01 December, 2023.
- ❖ Two-week Interdisciplinary Refresher Course in “Advanced Research Methodology” Conducted by Teaching Learning Centre Ramanujan College, University of Delhi from 21 November – 05 December, 2023
- ❖ Four-week Faculty Induction/ Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” Conducted by Teaching Learning Centre Ramanujan College, University of Delhi from 21 August – 19 September, 2023
- ❖ Four-week Faculty Induction/ Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” Conducted by Teaching Learning Centre Ramanujan College, University of Delhi from 22 June - 21 July, 2023
- ❖ One Week Faculty Development Programme on “ Principles of Radiation Detection and Measurement and Experimental Techniques.” conducted by IQAC, Ramjas College, University of Delhi from 03 to 09 April 2023.
- ❖ Faculty Development Programme on “Research Techniques in Science and Technology” conducted by K.R. Mangalam University, Gurugram in collaboration with Gargi College, University of Delhi from 18 to 23 July 2022.
- ❖ One Week International Faculty Development Programme on “Materials Characterization: Experimental And Theoretical Aspects” conducted by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi from 20 to 24 September 2021.
- ❖ One Week Interdisciplinary Faculty Development Programme on ‘Interdisciplinary Studies and Higher Education: Prospects and Challenges’ Conducted by Dyal Singh College, University of Delhi from 26 to 31 July 2021
- ❖ Webinar On “Cybercrime: Detection and Prevention in online Mode” RAJDHANI COLLEGE, Delhi University, April 10, 2021
- ❖ National Workshop on “Programming and software tools for UG courses in Online Mode” RAJDHANI COLLEGE, Delhi University, March 19-21, 2021
- ❖ National Science Day program in Online Mode, Inter-University Accelerator Centre, New Delhi, February 28, 2021.

- ❖ National Workshop on "Challenges of Teaching Physics Laboratory Courses in Online Mode" KALINDI COLLEGE, Delhi University, January 23-25, 2021.
- ❖ International Conference on Physics Society and Technology, Deshbandhu College, University of Delhi, January 17-19, 2019 (poster presentation)

#### Conferences/ Seminars/ Events/ Competitions organized

- ❖ Organised Seminar on "Application of Plasma Physics in the biomedical and energy sector " and Farewell function on 30th April, 2024 at Dyal Singh College (Member)
- ❖ Organised Seminar on "Nobel prize 2020 in Physics: Perspective of quantum black hole(s)" and Fresher's welcome function on 16th Oct, 2023 at Dyal Singh College (Member)
- ❖ Organised Seminar on "Uncovering the Mysteries of Creation" and Farewell & Fresher's welcome function on 12th April, 2023 at Dyal Singh College (Member)
- ❖ Organised LOGO designing Competition and Power Point Presentation Competition on 11th April, 2023 at Dyal Singh College (Member)
- ❖ Organised Poster making competition on 22nd Aug, 2023 at Dyal Singh College (Member)
- ❖ Organised Seminar on "Sustainable Energy Harvesting Using Photovoltaic" on 31st Jan, 2023 at Dyal Singh College (Member)
- ❖ Organised Seminar on "Aspects of Light Measurement" on 21st April, 2022 at Dyal Singh College (Member)
- ❖ Organised Webinar on "How can theoretical physics help with pandemics?" on 11th March, 2022 at Dyal Singh College (Member)
- ❖ Organised Webinar on "Soft and squishy materials and how to think about them" on 11th Nov, 2021 at Dyal Singh College (Member)
- ❖ Organised one day seminar on "Synthesis and characterization of advanced functional materials" on 19th April, 2021 (in online mode) at Dyal Singh College (Member)
- ❖ Organized intra- college Power Point Presentation competition on various Physics topics on 29th January, 2020 at Dyal Singh College (Member)

<ul style="list-style-type: none"> <li>❖ Organised seminar on 'CLIMATE CHANGE' on 13th Sep, 2019 at Dyal Singh College (Member)</li> <li>❖ Organised a lecture by Prof. Ajoy K. Ghatak (Professor Retired, IIT Delhi) on "<math>E = mc^2</math>" on 11th Feb, 2019 at Dyal Singh College (Member)</li> <li>❖ Organised seminar on 'WHAT IS A PHOTON?', Power Point Presentation Competition and Poster making competition on 25th Feb, 2019 at Dyal Singh College (Member)</li> </ul>
Research Projects (Major Grants/Research Collaboration) (From 1 <sup>st</sup> July 2019 onwards)
NO
Awards and Distinctions (From 1 <sup>st</sup> July 2019 onwards)
No
Association With Professional Bodies
NO
Other Activities like MOOCs/ Patents etc. (From 1 <sup>st</sup> July 2019 onwards)
No

*Usvashi*

Signature of Faculty Member