



**Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile**

Name	Dr Daya Bhardwaj	
Designation	Associate Professor	
Email	daya.bhardwaj@rajguru.du.ac.in	
Degree	Institution	Year
Ph.D.	TERI University, Vasant Kunj, New Delhi	2016
M.Sc. (Instrumentation and Commercial Methods of Analysis)	Jiwaji University, Gwalior, M. P	1998
PG Diploma (Biochemical technology)	Sri Venkateshwara College, University of Delhi, Delhi	1993
B.A.Sc. (Bachelor of Applied Sc)	Shaheed Rajguru College of Applied Sc. for Women, University of Delhi	1992
Areas of Interest / Specialization		
Analytical Instrumentation, Biomedical Instrumentation, Bioprospecting, Chemo profiling, Bio Sensors, Nanotechnology, Environmental analysis		
Association with Professional Bodies		
Life time member of Indian Society of Analytical Scientists (ISAS) - Delhi Chapter		
Publications Profile		
Patent awarded		
Design Patent granted for an invention entitled "Portable Bioelectric diagnostic Device system for Remote Health Monitoring". Indian Patent No. 512490-001, August 2026.		
Research Projects:		
Completed the project "An Assessment of consumer's exposure to pesticides in conventional vegetables and vegetables sold with the 'organic' tag in Delhi-NCR region, India" Delhi University under the Vice		

Chancellor's Innovation Project scheme 2012.

Guided the Innovation Project "Effect of anemia on the academic performance of undergraduate students" (Project code SRCA101)" Delhi University under the Vice Chancellor's Innovation Project scheme 2013-2014.

Completed the project "Assessment and correlation of air quality index of East Delhi region with vital respiratory parameters of college students" by University of Delhi.

Research Publication:

Daya Bhardwaj, Nutan Kaushik (2023) *HPLC–DAD fingerprinting coupled with chemometric analysis can successfully differentiate Indian Berberis species and its plant parts*, 3 Biotech, 254 (Impact factor 3.4)

Malik S., Bhardwaj D., Jain A., Dandriyal S. Jain S. & Jain V. (2023). *Impact of Covid-19 pandemic on the mental health of undergraduate students in India: A cross-sectional study using statistical analysis*. IJIAMR, 2(2), 1-9.

Published the review paper *Phytochemical and pharmacological studies in genus Berberis* in the Journal Phytochemistry Reviews (2013), DOI 10.1007_s11101-013-9272-x (Impact factor: 4.333).

Nutan Kaushik, Daya Bhardwaj (2013) *Screening of Jatropha curcas germplasm for oil content and fatty acid composition*, Biomass and Bioenergy, xxx , 1-9. (Impact factor: 2.975)

Published and presented the paper entitled "Chromatographic fingerprinting: An emerging tool for quality control and chemo-taxonomy of medicinal plants and their drugs" in the UGC sponsored National Conference on Recent trends in Instrumentation and Electronics (RTIE 2015) organized by SRCASW, University Delhi.

Poster presentation

Gautam H., Luthra S., Anand S., Chhokra A., Sinha R., Kumar S., Kumar R. & Bhardwaj D. (2022, November 28-30, 2022). *Synthesis of Curcumin Loaded Folic Acid Conjugated Amino Functionalized Mesoporous Silica Nanoparticles for Anticancer Curcumin Drug Delivery* [Conference presentation]. International Conference on Nanotechnology: Opportunities and Challenges (ICNOC-2022). Jamia Milia Islamia, New Delhi, India.

Book Publication and Book Chapters:

Co-authored book chapter *Internet of Things-Based 3-Lead ECG Signal Acquisition System in the Proceeding of International Conference on Advances in IoT and Security with AI*, Springer, Singapore (ISBN: 978-981-99-5088-1).

Co-authored book chapter Synthesis of Curcumin Loaded Mesoporous Silica Nanoparticles for Anti-cancer Drug Delivery (2023), Z. H. Khan et al. (eds.), Recent Advances in Nanotechnology, Springer Proceedings in Materials 28, https://doi.org/10.1007/978-981-99-4685-3_69

Coauthored the book “Industrial Electronics and Transducers” (2020-2021) ISBN 978-93-91541-13-2, Asian Publishers, Muzaffarnagar, India

Student Guidance

Guided M.Sc. Chemistry student for the summer internship project entitled “Green Synthesis of Silver Nanoparticles” in June-July 2025.

Guided students for the project titled, “Real time heart-rate and oxygen saturation monitoring system”, students received best poster presentation award at the international conference on Innovations in Science and Technology: A Perspective of Viksit Bharat@2047, held on 20th March, 2025 at DDUC, University of Delhi.

Co-guided the student project entitled “Dielectric Modulated Undergate FinFET Sensor for Neutral Biomolecules Detection: A Reliability Prospective. The work has been accepted and presented at the Conference-on-Emerging-Technologies: -Micro-to-Nano-(ETMN-2024) organised by Jamia Milia Islamia, New Delhi.

Guided students for project entitled “Comparative Analysis of Caffeine Content in Commercial Coffee Powders Using High-Performance Liquid Chromatography (HPLC)” under the in-house summer internship/project in June-July 2024.

Knowledge Up gradation Courses (FDP/OC/RC/Seminars/Workshops)

Attended a five-day workshop on “Training Program on Advance Materials Characterization Techniques (STP-18)”, organized by CSIR-National Physical Laboratory, Delhi, on 11-15 February 2026.

Participated in the two days workshops organised by DIDAC Academy at India International Convention & Expo Centre, New Delhi from September 18 to September 20, 2025. Attended the sessions on “New Age Digital Classroom Skills” conducted by ROOMBR TECHNOLOGIES and “Using AI effectively for the classroom teaching and learning” conducted by Swayam Prabha, Ministry of Education, India.

Participated in the Virtual International Conference on “The Impact of COVID-19 on International Higher Education” organised by Directorate, International Affairs Guru Gobind Singh Indraprastha University, UNESCO New Delhi Cluster Centre and UNESCO-International Institute of Capacity Building in Africa (IICBA) held on 11th March, 2021.

Attended National Webinar on “Role of Analytical Techniques in Research and Development” Organised by Faculty of Sciences, Aggarwal College, Ballabgarh, Haryana in association with Indian Society of Analytical Scientists-Delhi Chapter (ISAS-DC) on 11th June, 2021.

Participated in the International Summit on Women in STEM- —Visualizing the future: New Skylines jointly organized by ICGEB, Delhi and Department of Biotechnology, Ministry of Science & Technology, Govt. of India at India Habitat Center, Delhi on 23rd – 24th January 2020.

Participated in two weeks faculty development program on "Managing online classes and co-creating MOOCS-3.0" from 25th July to 10th August, 2020, organised by Teaching Learning centre, Ramanujan College, sponsored by MHRD Pandit Madan Mohan Malviya National mission on Teachers and teaching.

Participated in National Webinar entitled “Promotional Avenues for Teachers in Higher Education: CAS Regulations- 2018” organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa, College, University of Delhi under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, (PMMMNMTT) of MHRD on 5th September 2020.

Participated in —National Webinar on ICT enabled higher education in India: Challenges and opportunities Organized by Guru Angad Dev Teaching Learning Center, Khalsa College on 15th April 2020. As special invitee attended National Colloquium for the sustainable Development of Forensic Sciences held at SGBT Khalsa College, University of Delhi on 23rd – 24th February 2020.

Participated in the Knowledge Sharing Program on —Academic Leadership- the Keystone for Excellence in Professional Education|| at IBS, Gurgaon held on 30th August 2019.

Participated in the National Faculty Development Program on —Counseling and Mentoring Skills for Teachers under Pandit Madan Mohan Malviya National Mission on Teachers and teaching scheme of Ministry of Human Resource Development, held from 5th – 11th November 2019 at ARSD College, University of Delhi.

Attended 2nd meeting of the task force under the DBT Star College Scheme held on May 8-9, 2018 at Gargi College, University of Delhi.

Attended DBT Star College Scheme 7th Expert-cum-Coordinators meet held on 11-12 April, 2017 at Doaba College, Jalandhar. • Coordinated the Workshop entitled “Wonders of Science” for students of East Delhi School on 17-18 May, 2017 under the DBT Star College Scheme outreach activity.

Worked as an active member of the organising committee and Resource Person of UGC and DBT Sponsored, 7-Day faculty development program on Recent Trends in Applied Science Teaching (FDP-RTAST’2017) held during 21-27 July, 2017 in Shaheed Rajguru College of Applied Sciences for Women, Delhi University, India. •

Participated in the STEM Teacher Training Workshop on Research based Pedagogical Tool held from 6-9 October, 2017 at Pt. Ravishankar Shukla University, Raipur organised by MHRD, DBT, Govt. of India, ISER Pune, Newton Bhabha Fund of British council and Centre for Science Education Sheffield

Hallam University, UK.
ADMINISTRATIVE RESPONSIBILITY (At University Level)
Member, Committee of courses, DOES, University of Delhi (South Campus), Delhi
ADMINISTRATIVE RESPONSIBILITY (At College Level)
Administrative Teacher In-charge, Department of Instrumentation Teacher Coordinator, Department of Psychology Member, College Grievance Committee Convener, Purchase Committee Convener, Admission Committee Deputy Superintendent of Examination Secretary, Staff Council Member, Governing Body Convenor/Member, Proctorial Board Academic & Development Committees Nodal Officer, Anti-Drugs and anti-Narcotics Committee Member, Academic Development Committee Cultural Secretary, Student Council Coordinator/ Member, IQAC (Internal Quality Assurance Cell) Member, Fee Concession & Scholarship Committee Student Advisor, Student Council Convener, Women Development Cell
Awards and Distinctions
Conferred with Delhi Ratan Award in All India Conference of Intellectuals during 38th Annual Celebration Year 2018 by Mr. Ramdas Athawale, Hon Minister of states Social of Justice and Empowerment, Govt. of India on July 28th, 2018. Received 25 years of outstanding service and dedication award from Shaheed Rajguru College of Applied Sciences for Women, in the year 2018-19.