




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Shobha	Last Name		Photograph
						
Designation		Assistant Professor				
Address		Department of Physics, Shivaji College, Rajouri Garden, New Delhi-110027				
Office Phone No.						
Residence		Unit No.301, Dwarka Sec.-23, Pochenpur Extention, Delhi-110077				
Mobile		8750471023				
Email		shobha@shivaji.du.ac.in, shobhaphysics7@gmail.com				
Web-Page						
Educational Qualifications		Ph.D.				
Degree		University/Institute			Year	
Ph.D.		Department of Physics, Banasthali Vidyapith, Banasthali			2021	
M.Phil./M.Tech.						
PG		Department of Physics, Banasthali Vidyapith, Banasthali			2011	
UG		Maharishi Dayanand University, Rohtak			2009	
Any Other Qualification		B.Ed., M.Ed.				
Career Profile						

Working in Shivaji College as Assistant Professor Physics from 21 November 2023 onwards

Administrative Assignments

Active Involvement in various assignments, projects and committees assigned by the college from time to time

Areas of Interest/Specialisation

Condensed Matter Physics,
Supercapacitors,
Synthesis and Applications of Nanocomposites

Subjects Taught

Electricity and Magnetism, Nuclear and Particle Physics, Electrical circuit analysis, Wave and optics, Heat and thermodynamics

Innovation Project/Research Projects (Major Grants/Research Collaboration)

Nil

Publications Profile (Research Papers/Books)

- A book chapter entitled “Green Synthesis of Metal Nanoparticles using Essential oils and Plant Extracts” in Vegetable Oil- Based Polymers and their Surface Application, ISBN: 978-0-12-822189-1, Elsevier Publication 2024.
- A book chapter entitled “ Essential oils and plant extract-based corrosion inhibitors for metal surfaces” in Vegetable Oil- Based Polymers and their Surface Application, ISBN: 978-0-12-822189-1, Elsevier Publication 2024.
- Improved electrochemical performance of nickel cobaltite/ multi-walled carbon nanotube composite as a hybrid electrode for supercapacitors, Journal of Physics and Chemistry of Solids, Shobha, Bhaskaran, Mahak Singh, M.S. Negi, Saral Kumar Gupta, Journal of Physics and Chemistry of Solids 154 (2021) 110107, ISSN: 0022-3697 doi.org/10.1016/j.jpccs.2021.110107

- **High super capacitive performance of mixed transition and inner transition metal oxide-based hybrid nanostructures, Shobha, Bhaskaran, Saral Kumar Gupta, Materials Today: Proceedings, 2021, ISSN 2214-7853, doi.org/10.1016/j.matpr.2021.01.887.**

Conference/Seminar/Faculty Development Programme/Workshop

- **Presented Oral in “International Conference on Nanomaterial: Initiatives & Applications” 9-11th March 2018, Jiwaji University, Gwalior.**
- **Presented Oral in "Conference on Cutting age research in material science and chemistry (CRMSC 2021) January 11-12, 2021. Manipal University Jaipur.**
- **National Webinar entitled research publication: Skills, Ethics and Misconduct, Organized by the department of Chemistry. Kumaraguru Collage of Technology, Coimbatore. 15 May, 2020**
- **5 Day Online Faculty Programme on "GChemPaint" Organized by Rajdhani College University of Delhi 29 June to 3 July 2020.**
- **Poster Presentation in National Conference on Advance Material: Theory and Applications (NCAMTA-2019) Hansraj College University of Delhi, Sept. 26-28, 2019.**
- **Participation certificate in the 33rd National Symposium on Plasma Science and technology (PLASAMA-2018) Department of Physics and Astrophysics University of Delhi 4-7 December 2018**
- **Viksit Bharat Ambassador “Nari Shakti Conclave” Nominated by Delhi University, 7 th march 2024, Indoor Stadium, North Campus, University of Delhi.**
- **Organising committee Member in Quanta’24 the Annual Fest of INVENIO- Physics Society of Shivaji College, University of Delhi held on 19th March, 2024.**
- **Four Weeks Faculty Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” from 22 January – 20 February, 2024 and obtained Grade A+.**
- **International Conference on “Resurgent on the Global Canvas” organised by Shaikshik Foundation in collaboration with NCPSL & Shivaji College, University of Delhi during 25-26 February, 2024.**

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

Nil

Awards and Distinctions

Nil

Memberships

Life Membership of Plasma Science Society of India (Membership No. CM-1630)

Other Academic Activities

- Resource person in a workshop assimilating the concept of physics through Hands-On - Experiments, Workshops and Kit Making for PGT Physics in HNB Central university , Srinagar, Uttrakhand 20-22 feb. 2024
- Organiser in QUANTA'24 the annual fest in INVENIO-The Physics Society of Shivaji College held on 19th of March, 2024
- Lists to be taught for ADD-ON Course 2023-24

Cultural/Extracurricular Activities

Member of Organising Committee for the Epert talk and poster competition organised under the aegis of "SHIVRAJ 350" on 10th April 2024

Signature of Faculty Member