




Shivaji College Faculty Details Proforma

Title		First Name		Last Name		Photograph
	Ms.		PREETIKA		DHAWAN	
Designation	Assistant Professor					
Address	Dept. Of Physics, Shivaji College					
OfficePhone No.	011-25116644					
Residence	New Delhi					
Mobile						
Email	preetikadhawan@yahoo.com					
Web-Page						
Educational Qualifications	M. Sc- Gold Medalist					
Degree	University/Institute				Division	
PG	Hansraj College, University Of Delhi				First	
UG	Hansraj College, University Of Delhi				First	
Any Other Qualification	Diploma in Computer Applications (RCSM)					
Career Profile						
<p>To work with utmost sincerity and accept challenges and enhance the boundaries of my knowledge and capabilities and to evaluate, monitor, supervise and mentor student academic progress by being a part of a dynamic institute.</p>						

Administrative Assignments

- Currently working as member of Website Committee at Shivaji College.
- Worked as an editor of Departmental Magazine in 2013.

Areas of Interest/ Specialisation

- Electronics
- Advance Numerical Techniques
- Solid State Physics

Languages Known

MS Office
C++, C with Advance Numerical Techniques
FORTRAN, SCILAB
LaTeX.
English and Hindi.

Subjects Taught

Theory Papers

- Solid State Physics
- Elements of Modern Physics
- Waves and Optics

Practical Labs

- Analog System and Applications
- Advance Mathematical Physics – I
- Solid State Physics
- Computational Physics
- Mechanics
- Thermal Physics

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

- Research Project at National Centre for Radio Astrophysics, Pune on “**Tracing the X-Ray emission from Sn 2009ip**” in June- July 2014.
- Research Project at Institute for Plasma Research, Gujarat on “**Characterization of Hot Filament Discharge Plasma by Langmuir Probe Diagnostics and Line Intensity Ratio Methods**” in June- July 2015.
- Worked as a Project Leader on topic “**Arduino Based Wildlife Spy Robot**” in 2016.

Publications Profile (Research Papers/Books)

Conference/Seminar/Faculty Development Programme/Workshop

- Participated in a workshop on “**Functional Analysis and Troubleshooting of Electronic Devices for Biotechnology and Biomedical Applications**” at Hansraj College, Delhi University in March 2014.
- Participated in The Thirteenth Dr. B. N. Singh Memorial Lecture “**Technological Advancements in Defence R&D (DRDO)**” in September 2015 at Department of Physics and Astrophysics, University of Delhi.
- Attended seminars and colloquiums presented at NCRA, Pune.
- Attended seminars and lecture series, colloquiums presented at IPR, Gujarat from June 1, 2015- June 9, 2015.
- Participated in the Excursion trips to **FCIPT, ITER- India, ISRO- Ahmedabad** during June- July 2015.
- Participated in a program “**An afternoon with Sunita Williams**” in 2016 at Department of Physics and Astrophysics, University of Delhi.
- Attended a workshop on “**Different Strategies of Teaching and Learning**” on Aug 6, 2016.
- Organized and Participated in the Annual Workshop “**PRATIBIMB**” in Jan 2017 at Shivaji College.
- Participated in the **National Science Day Program** at IUAC, Delhi in Feb 2017.
- Participated in the **SCILAB Faculty Development workshop** at Hansraj College in September 2017.
- Participated in the **Faculty Development Program** on “Applied Physics and Embedded System Design” held at Rajdhani College in December 2017.
- Organized the Annual Departmental Festival **INVENIO-2017**.
- Organized the Annual Departmental Festival **INVENIO-2018**.
- Organized and Participated in Lecture “**Semiconductor Opto-Electronic Devices : A Perspective**” by Prof. M. R. Shenoy, IIT Delhi in Oct 2017 at Shivaji College.
- Organized and Participated in the Annual Workshop “**SPECTRUM**” in Jan 2018 at Shivaji College.
- Organized and Participated in the CSIR Sponsored First National Conference on “**Current and Future Perspectives in Nanotechnology : Nanoworld 2018**” in April 2018 at Shivaji College.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

Awards and Distinctions

- Awarded **Dr. K.S. Krishnan Gold Medal** at Annual Convocation 2017 in Delhi University, solicited by the Hon’ble President of India, Mr. Ram Nath Kovind.
- Awarded **Gold Medal** from Mrs.Mridula Sinha, the Hon’ble Governor of Goa at Hansraj College in 2017.
- Certified Ist Rank in Delhi University in M.Sc Physics.
- Certified IInd Rank in Delhi University in B.Sc (H) Physics.
- **CSIR NET - 2015** Qualified.
- **GATE 2016** Qualified.
- Selected for **CBSE- XII Scholarship**.
- Awarded **UGC- Post Graduation Scholarship for University Rank Holder (URH)**.
- Awarded **INSPIRE Scholarship Award -SHE** for being in Top 1 % in CBSE School level for five years.

Memberships

1 year subscription to RESONANCE magazine (from Indian Academy of Sciences) in 2014-15.

Other Academic Activities

Participated in Educational Excursions to the following places:

- NPL, Delhi
- Fab lab at Delhi University
- GMRT-Pune (June 2014)
- FCIPT, Gujarat (June 2015)
- ITER- India, Gujarat (June 2015)
- ISRO- Ahmedabad, Gujarat (June 2015)
- ADITYA Tokamak Unit, Basic Plasma Lab- BETA, SST-1 Tokamak, NBI Lab, Diagnostic Lab, RF Lab, Large Volume Plasma Device (LVPD) at IPR, Gujarat (June 2015).
- Indian Meteorological Department, Delhi (2016)
- IUAC, Delhi (Feb 2017)

Worked as Examiner for the conduct of practical exams, paper setting and evaluation.

Cultural/Extracurricular Activities

- Organized various events like Annual Fest, Seminars, Workshops for the Physics Department.
- Worked as an editor of Dptt. Magazine in 2014.
- Worked in the Society of General Awareness in 2014.

Signature of Faculty Member