



Shivaji College Faculty Details Proforma

Title	Ms.	First Name	PREETIKA	Last Name	DHAWAN	Photograph
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 a member of Website Committee at Shivaji College.

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
- Waves and Optics

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.

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”** on 12th Feb 2018 at Shivaji College.
- Organized and Participated in the CSIR Sponsored First National Conference on **“Current and Future Perspectives in Nanotechnology : Nanoworld 2018”** on 12-13th April 2018 at Shivaji College.
- Attended 2 days National Seminar on **“New Trends in Nanotechnology and Applications NTNA- 2018”** at ARSD College on 27-28 Sept 2018.
- Organized and Attended the Lecture Series as a part of INVENIO Society event on 1 Nov 2018.
- Attended Faculty Development Program on **“Advancements in Integrated Sciences: Learning and Adaptation for Effective Teaching and Research”** at Shyam Lal College from 10-16 Dec 2018.
- Participated in **International Entrepreneurial Summit 2019 on “Entrepreneurship Development through Ecotourism in North East India”** at Shivaji College on 14-15th Feb 2019.

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 1st Rank in Delhi University in M.Sc Physics.
- Certified 11nd 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.
- Provisionally Selected for **INSPIRE- DST Fellowship**.

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)
- CSIR- Institute of Genomics and Integrative Biology (Dec 2018).

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 at College in 2014.

Signature of Faculty Member