




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	NIDHI	Last Name	TYAGI	Photograph
Designation	Assistant Professor					
Address	Department Of Physics, Shivaji College University Of Delhi, New Delhi					
Office Phone No.	011-25116644					
Residence						
Mobile						
Email	nidhi.tyagi91@yahoo.com					
Web-Page						
Educational Qualifications						
Degree	University/Institute				Year	
Ph.D.	University of Delhi				2016	
PG	C.C.S. University				2003	
UG	M.J.P. Rohilkhand University				2001	
Any Other Qualification	Qualified CSIR-UGC NET-JRF				2010	
	Qualified JEST with 97 Percentile				2010	
	Qualified GATE with 98 Percentile				2010	
Career Profile						
<p>“To strive for excellence with a passion of teaching & shoulder the responsibilities to increase breadth of knowledge among the students and committed to provide them an excited environment by following a structured and well formulated teaching methodology”.</p> <ul style="list-style-type: none"> Worked as Physics Faculty (PGT) in SBVM School Hapur from 2003 to 2007. Worked as permanent Physics Faculty (PGT) in SBVM School Hapur from 2007 to 2009. Teaching Assistance in IIT Kanpur from July 2011 to April 2012. Working as Assistant Professor in Shivaji College since August 2016 						

Administrative Assignments

- Head of Department of Physics, SBVM School during 2007-2009.
- Time Table In charge, SBVM School during 2006-2009.
- Head of Science Centre in SBVM School.
- Co Editor of School Magazine.
- Member of College Magazine, Shivaji College for 2016-2017.
- Member of Website Committee at Shivaji College.

Areas of Interest/Specialisation

Crystal growth and its Characterizations, Structural Crystallography, Nanoscience

Subjects Taught

Electricity and Magnetism, Mechanics, Element of Modern Physics, Thermal Physics and Statistical Mechanics, Wave and Optics, Basic Instrumentation Skills, Electrical Circuits and Network Skill,

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

Bagged various National, State & Regional level award for proven expertise guidance in undertaking Projects such as “ New Discovery in Accident Safety Device”, “ Water Storage” and “Bio-Fuel” etc.

Publications Profile (Research Papers/Books)

- Evidence of sustained ferroelectricity in glycine sodium nitrate single Crystal, **Nidhi Tyagi** , Nidhi Sinha , Binay Kumar, **Current Applied Physics** 14 (2014) 156-160.
- Pyroelectric properties and conduction mechanism in solution grown glycine sodium nitrate single crystal , **Nidhi Tyagi** , Nidhi Sinha, Harsh Yadav, Binay Kumar, **Physica B** 462 (2015)18-24.
- “Performance of crystal violet doped triglycine sulfate single crystals for optical and communication applications” Nidhi Sinha, Sonia Bhandari, Harsh Yadav, Geeta Ray, Sanjay Godara, **Nidhi Tyagi**, Jyoti Dalal, Sonu Kumar and Binay Kumar, **CrystEngComm** 17 (2015) 5757-5767.
- “Enhancement of optical, dielectric and piezoelectric properties in crystal violet dye doped benzophenone crystal grown by Czochralski technique” Harsh Yadav , Nidhi Sinha, **Nidhi Tyagi**, Binay Kumar, **Crystal Growth and Design** 15 (2015) 4908-4917.

- “Growth, crystal structure, Hirshfeld surface, dielectric and mechanical properties of a new organic single crystal: ‘Bisglycine’squarate” **Nidhi Tyagi** , Nidhi Sinha, Harsh Yadav and Binay Kumar, **RSC Adv.** 6 (2016) 24565–24576.
- “Evidence of ferroelectricity in highly efficient L-histidinium dihydrogen arsenate orthoarsenic acid single crystal: A study of structural, dielectric, and mechanical properties” **Nidhi Tyagi** , Nidhi Sinha, Harsh Yadav, Binay Kumar, **Acta crystallography Section B** 72 (2016) 593–601.

Conference/Seminar/Faculty Development Programme/Workshop

- District level National Children’s Science Congress Uttar Pradesh program, supported by DST, Govt. of India, Ghaziabad in 2004.
- State level National children’s science congress Uttar Pradesh program, supported by DST, Govt. of India, Saharanpur in 20-21 November, 2004.
- Uttar Pradesh State level Teacher’s Workshop organized by “The National Academy of Science”, Allahabad in 2005.
- “Partners in Learning Teacher” Training Program (Microsoft) Conducted from 9 May 2005 to 19 May 2005.
- Workshop on “Innovative Physics Teaching” in Vishwa bhart public school, Noida in 2006.
- Seminar in “Appreciating Physics in Everyday life” - A Nationwide Campaign to popularize Physics, supported by DST, Govt. of India, SSV Degree College, Hapur in 14-16 September 2006.
- District level Teachers Orientation Workshop for National Children’s Science Congress (NCSC) on “Biodiversity”, supported by DST, Govt. of India and Council of Science and Technology in 2006.
- Workshop on “Aao Mil Jhul Ke Science Jaane Aur Apnaye” Organized By Ministry of Science and Technology, Govt. of India in 2007
- “Dielectric, piezoelectric, ferroelectric and pyroelectric properties of nonlinear optical Glycine Sodium Nitrate single crystals”, XVII National seminar in Crystal Growth 2013 in Chennai.
- Workshop on “Information Literacy and Competency”, Delhi University Library system, University of Delhi, 2013, Delhi.
- Workshop on “Research Metrics” organized by Research Council and University of Delhi in 2015.
- National Conference on NenoTechnology, Delhi University in Jan 2017.
- Faculty Development Program of “Introducion to Scilab” - 22-23 September 2017 at Hans Raj College, University of Delhi.
- “Multifunctional single crystal growth, morphology and Hirshfeld surface analysis of L-

histidinium tetrafluoroborate for piezoelectric and optical applications” 6th International Symposium on Integrated Functionalities ISIF 2017 in 10-13 December 2017.

- Faculty Development Program on “Applied Physics & Embedded System Design”, 14th - 15th Dec 2017 at Department of Physics and Electronics Rajdhani College.
- 9th INUP Familiarization Workshop on Nanofabrication Technologies” May 23-25, 2018 IIT Bombay, Mumbai.
- “NCPRE Familiarization Workshop on Photovoltaics” May 25, 2018, IIT Bombay, Mumbai

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

As a Group Guider for preparing “Experience letter” on Project “Water Conservation, Collection and Storage” in National Children’s Science Congress in 2004

Awards and Distinctions

- Award of Senior Research Fellowship (SRF), University Grant Commission.
- Award of Junior Research Fellowship (JRF), University Grant Commission.
- Got Best oral presentation award in XVII National seminar in Crystal Growth- 2013 in Chennai.
- Awarded by Honable Dr. Murli Manohar Joshi, Former Minister of HRD, Govt. of India, for science project.
- Selected for Teacher Award by Rastriya Samta Swatantra Manch for excellent work in Education field in 2007.

Memberships

Other Academic Activities

- Convener of Science Exhibition program on District level
- National Cyber Olympiad In-charge in 2007.
- Organized various science events like Quiz, debate etc.
- Resource person of DST Inspire Camp, Shivaji College in 2016.

Organizing Committee Member

- Physics Workshop “Pratibimb” in Shivaji College Delhi University in 2016.
- Lecture “Semiconductor Opto-Electronic Devices : A Perspective” by Prof. M. R. Shenoy, IIT Delhi, Shivaji College in Oct 2017.
- The Annual Departmental Festival INVENIO-2017.
- Physics Workshop “Spectrum” in Shivaji College Delhi University in 12th February 2018.
- National Conference on Current & Future Perspectives in Nanotechnology “Nanoworld – 2018”, April 12-13, 2018.
- The Annual Departmental Festival INVENIO-2018.

Cultural/ Extracurricular Activities

- First position in Akhil Bhartiya Gyan Pariksha (Prathma and Uttama both) organized by Sanskrit Bhawan, Kurukshetra.
- Participated in State level Scout guide camp.
- Participated in District level Cultural Competitions.
- Participated in Various Science Program (Quiz, Exhibition etc) and sports Competitions.



Signature of Faculty Member