



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.						
Residence						
Mobile						
Email		nidhityagi@shivaji.du.ac.in				
Web-Page						
Educational Qualifications		Ph.D.				
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	
Research Profile		Orchid ID ; https://orcid.org/0000-0003-4344-4966 Scopus ID : https://www.scopus.com/authid/detail.uri?authorId=55627876501 Goggle Scholar ID : https://scholar.google.com/citations?hl=en&user=E-aKNakAAAAJ				

Vidwan ID : <https://vidwan.inflibnet.ac.in/profile/235907>
 Research Gate : <https://www.researchgate.net/profile/Nidhi-Tyagi-3>

Career Profile

“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”.

Worked as Permanent Physics Faculty (PGT) in SBVM School Hapur from 2003 to 2009.

Worked as Assistant Professor in Shivaji College from August 2016 to November 2023

Working as Assistant Professor (Permanent Faculty) in Shivaji College since November 2023

Administrative Assignments

- Head of Department of Physics, SBVM School during 2005-2009.
- Teaching Assistance in IIT Kanpur from July 2011 to April 2012.
- College nodal officer for “Value Addition Courses”
- Coordinator of IIRS-ISRO Outreach Programme, Dehradun.
- Editorial Board Member of International Journal of Materials Science and Applications.
- Member of National Physics Expert Reviewer committee under National Translation Mission, Govt of India
- Member of National Jury Committee for selection of project under PRAYAAS Scheme, Department of Education in Science and Mathematics, NCERT
- Member of various staff council committees

Areas of Interest/Specialisation

Crystal growth and its Characterizations, Structural Crystallography, Nanomaterials, Single Crystal, Ferroelectrics Crystal, Piezoelectricity, Crystal Optics, Crystallization

Subjects Taught

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

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

1. 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”.
2. CSIR-NEIST, Johrat Project “Frequency-Magnitude relations and Hazard Estimation”.
3. Minor Project entitled “Synthesis and characterization of multifunctional ZnO nanoparticles for biomedical, piezoelectric and ferroelectric applications”
4. Major project funded by Indian National Science Academy “A comprehensive study on indigenous zootherapeutic practices and its contemporary status in Raji tribe of Uttarakhand” on “History of Science

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 Kuma, **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.
- Synthesis and characterization of ZnO nanorods for liquid crystal-based patch antenna, S.K. Yadav, A.V. Singh, Harsh Yadav, **Nidhi Tyagi**, **International Journal of Electronics Engineering** 10 (2018) 932-937.
- “Development of new L- Serine Squarate single crystal: Growth, structure, Hirshfeld surface analysis with enrichment ratio of atomic contacts” **Nidhi Tyagi**, Harsh Yadav, Abid Hussain Binay Kumar, **Journal of Molecular Structure** 1224 (2021) 129190.
- “A systematic study of the third-order nonlinear optical co-crystal of bis-((diisopropyl)ammonium) dichromate: X-ray, Hirshfeld surface, Optical, and Mechanical analysis” Preetika Dhawana, Anupama Saini, Sahil Goel, **Nidhi Tyagi**, Harsh Yadav, **Journal of Molecular Structure** 1270 (2022) 133869.
- “Effect of various morphologies and dopants on piezoelectric and detection properties of ZnO at the nanoscale: A review” Deepika Yadav, Nidhi Tyagi,* Harsh Yadav, Anina James, Nipun Sareen, Mitali Kapoor, Kabeer Kumar, Yashika Kataria and Khushboo Singh, **Journal of Material Science** 58 (2023) 10576–10599
- “A methodical investigation on the growth and characterization of a third-order nonlinear optical novel co-crystal of 8-hydroxyquinolinium phthalate: X-ray, Hirshfeld surface, optical, mechanical, thermal and DFT analysis” Preetika Dhawana, Anupama Saini, Karan Grover, Sahil Goel, **Nidhi Tyagi**, Pradeep Kumar, Harsh Yadav, **Materials Research Bulletin** 169 (2023) 112516.

- Multifunctional single crystal growth, Morphology, Hirshfeld topology analysis, Enrichment ratio and Energy framework of piezoelectric L-Histidinium tetrafluoroborate single crystal” **Nidhi Tyagi**, Nidhi Sinha, Harsh Yadav, Pradeep Kumar, Binay Kumar, **Applied Physics A** 130 (2024) 231

Other Publications

- Article in a magazine Vigyan Apke liye 2321-5321 in July-December 2020 edition
- Article in a magazine “KAHAAR” ISSN : 2394-3912 in July-December 2022 edition.
- Book chapter titled “Biological synthesis of Nano particles” published in an edited book titled “Synthesis, Characterization, and Multi-functional Applications of Nanomaterials.” Evidencepub Publishing with an ISBN-13: 978-9363556089

Deposited Single crystal structure in The Cambridge Crystallographic Data Centre for the first time

- | | |
|---|------------------|
| • New Bis glycine squarate single crystal | CCDC No. 1052856 |
| • New β Alanine squarate single crystal | CCDC No. 1403634 |
| • New L-Serine squarate single crystal | CCDC No. 1409966 |
| • New Potassium carbonate borate | CCDC No. 1056069 |
| • DIPACR | CCDC No. 2150590 |

Conference/Seminar/Faculty Development Programme/Workshop

Conference/Seminar /Workshop Attended

- 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.
- 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.
- **National Conference** on NenoTechnology, Delhi University in Jan 2017.
- **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
- **International E-Summit** on “Entrepreneurship Development through Ecotourism in Northeast India” from February 14-15, 2019 at Shivaji College.
- Completed “**Indian Summer School** On Crystal Growth” in association with Indian Association for Crystal Growth (IACG), Chennai during 14-23 May 2020
- **International Virtual Seminar** on "Emerging Technologies in Energy Conversion and Storage" organized by Sathyabama Institute of Science and Technology, Chennai during 1 & 2 June, 2020.
- **International Conference** on "People, Environment, Science and Pandemic" organized by Bhagini

Nivedita College, University of Delhi from 5-7th June, 2020.

- **International Webinar** on Engineered Nanostructures for Therapeutic and Biomedical Applications, organised by RPS Degree College, Haryana on July 3, 2020.
- **“Science Leadership Workshop”** Organized by Central University of Panjab, Bathinda from 22 June to 28th June 2020.
- **CSIR Summer Research Training Program 2020** during June to August 2020 coordinated by CSIR-NEIST, Jodhpur.
- **Rigaku School** for Practical Crystallography, USA from July 6th-17th 2020.
- **National Webinar-I** entitled "Impact Centric Research: Funding Opportunities and Challenges in Framing Successful Research Proposal" organised by Shivaji College, University of Delhi on July 11, 2020.
- **Short term course** on “Current Trends of Condensed Matter Physics” organized by Dept. of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar from 25 -29 September 2020.
- **Short term course** on “Nanomaterials for Clean Energy and Environment Applications” organised by Dr. Mahalingam College of Engineering and Technology Anna University, Chennai from November 2-7, 2020.
- **National Workshop** on Challenges of Teaching Physics Laboratory Course in Online Mode, organised by Kalindi College, University of Delhi, from January 23-25, 2021.
- **“20th International Workshop** on Computational Physics and Materials Science: Total Energy and Force Methods” organized by Abdus Salam International Centre of Theoretical Physics, Italy from 23 -25 Feb 2021.
- **Workshop** on “Programming and Software tools for UG courses” organized by Department of Physics and Electronics, Rajdhani College, University of Delhi from 19th – 21st March 2021.
- **Webinar** on “Emerging Trends in Contemporary Physics” organized by Department of Physics, Deshbandhu College, University of Delhi on 30th & 31st March, 2021.
- **Two Weeks International Workshop** on Emerging Trends in the field of Science and Technology” organised by the Department of Physics, Sathyabama Institute of Science and Technology, Chennai, from 16 to 28 August 2021.
- **National Level Webinar** entitled 'Art of Academic Writing: A systematic approach' organised by Research & Innovation Cell, Shivaji College (University of Delhi), New Delhi, India on September 4, 2021.
- **Ten Days Webinar Series** on “Excellence of Women in the Field of Science and Technology” organized by the Department of Physics and Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai, from 13 to 23 September 2021.
- **Annual IIRS Outreach Meet** on 24 March 2022 Through IIRS-ISRO Outreach Programme as a coordinator of Network Institute.
- **INDO-ISRAEL Symposium** on Women in STEM-2022 organised by the Department of Applied Science, The Northcap University, India in the collaboration with the Ariel University, Israel held on 29-30 March 2022.
- **“Indian Summer School on Crystal Growth (ISSCG-2022)”** organized by SSN, Research Centre, Sri Sivasubramaniya Nadar College of Engineering, Chennai-603110, Tamil Nadu, India in association with Indian Association for Crystal Growth (IACG) during 16-21 May 2022.
- **International Workshop** on Thermoelectric Materials and Applications TMA-2022, held on 24-25

August 2022 Organized by SSN Research Centre, SSN Institutions, Chennai-603110, Tamil Nadu, India

- Teacher's Summit Organised by Vidya Bharati Uchcha Shiksha Sansthan held at AICTE Auditorium, New Delhi on 04 November, 2023.
- **International Conference** on "Resurgent on the Global Canvas" organised by Shaikshik Foundation in collaboration with NCPSEL & Shivaji College, University of Delhi during 25-26 February, 2024.
- **International conference** on "Material Science Technology and Sustainable Development" held on 18-19th April 2024 at RPS Degree College, Mahendergarh, Haryana.
- **National seminar** entitled "Health and Environmental Sustainability in the 21st Century" on 22nd October 2024 organized by the Department of Zoology, Shivaji College, University of Delhi.
- Participating in the online interactive session on the topic, 'Emergence of Quantum Computing and the Future Direction' on 15 November 2025, organised by Lok Vigyan Parishad and Parivartan Learning Solutions under the Samvadika series.

Faculty Development Program

- **Faculty Development Program** of "Introduction to Scilab" - 22-23 September 2017 at Hans Raj College, University of Delhi.
- **Faculty Development Program** on "Applied Physics & Embedded System Design", 14th -15th Dec 2017 at Department of Physics and Electronics Rajdhani College.
- **Faculty Development Program** on "Advancements in Integrated Sciences: Learning & Adaptation for Effective Teaching and Research" jointly organized by Shyam Lal College, UGC Human Resource Development Centre, Jamia Millia Islamia & CSIR-IGIB from 10-16 December 2018.
- **Faculty Development Program** on "Physics on Material" organized by Department of Physics, JAIN (Deemed-To-Be-University), Karnataka from 28-30th May 2020.
- **Faculty Development Program** on "Advanced Materials and Characterization" conducted by Dept. of Physics, School of Sciences, NIT Andhra Pradesh, from 15-19 June 2020.
- **Faculty Development Program** on "Advanced Computational and Experimental Research in Physics" organized by Dept. of Physics, SRM IST, Ramapuram Campus, Chennai from 27 July 20 to 8 August 20.
- One Week National level **Faculty Development Program** on "Advance Computational and Experimental Research in Physics 2022" organized by SRM Institute, Chennai from 20th to 27th June, 2022.
- One Week Online (Interdisciplinary) **Faculty Development Programme** on "Dimensions of Research: From Literature Review to Data Analysis" (04th – 09th December, 2023) organised by Shivaji College, University of Delhi in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi.
- One Week Online (Interdisciplinary) **Faculty Development Programme** on Recent Advances in Basic and Applied Sciences" (11th – 16th December, 2023) organised by Department of Physics and Chemistry, Shyam Lal College, University of Delhi in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi.
- 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+.

- One Week “NEP Orientation and Sensitisation” organized by MH-MMTTC, Hansraj college with collaboration Shivaji College, University of Delhi, held on 18th to 28th September 2024.
- One week **Faculty Development Program (FDP)** on “Functional Materials for Sustainable Development” Organized by Department of Chemistry & Physics Netaji Subhas University of Technology (NSUT), Dwarka, New-Delhi, 110078, India during 27 - 31 January, 2025.
- One Week **Faculty Development Programme** on “Indian Knowledge System: focusing on Philosophy, Science, Technology, and Traditional Medicine” organized by MH-MMTTC, Ramanujan College, Delhi with collaboration Shivaji College, University of Delhi, held on 18 August, 2025 - 23 August, 2025.
- One Week **Faculty Development Programme** on “Skill Augmentation in Teaching & Research through AI” organized by MH-MMTTC, Hansraj college with collaboration Shivaji College, University of Delhi, held on 17th – 22nd November 2025.
- **Guru Dakshata-Faculty Induction Programme** under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Coimbatore Institute of Technology, University of Delhi on 22 December, 2025- - 22 January, 2026.

Paper Presentation

- **Oral presentation** on “Dielectric, piezoelectric, ferroelectric and pyroelectric properties of nonlinear optical Glycine Sodium Nitrate single crystals”, XVII National seminar in Crystal Growth 2013 in Chennai.
- **Oral presentation** on “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.
- **Poster Presentation** on “Synthesis of multifunctional Rare Earth doped ZnO nanoparticles for green energy harvesting and biomedical applications” in International Seminar on “Science, Environment and Spirituality (ISSES 2019)” held at Shivaji College (University of Delhi) on September 13, 2019.
- **Oral presentation** on “Growth of semi-organic single crystal of L argininium phosphate for piezoelectric, optical and communication applications” in International Conference on Advances in Smart Materials & Emerging Technologies” ASMET-2020 held at Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, on January 23-24, 2020
- **Poster presentation** on topic “Multifunctional single crystal growth, Hirshfeld topology analysis of L-Histidiniumtetrafluoro borate for piezoelectric and communication applications” in 2nd National Conference on “New Trends in Nanotechnology & Applications” NTNA-2020 held at Atma Ram Sanatan Dharma College, University of Delhi, on February 6-7, 2020.
- **Oral presentation** on paper entitled “Multifunctional Single Crystal Growth, Morphology, Hirshfeld Topology Analysis, Enrichment Ratio And Energy Framework Of Piezoelectric L-Histidinium Tetrafluoro Borate Single Crystal” in the 2nd International Symposium on “MODELING OF CRYSTAL GROWTH PROCESSES AND DEVICES”, during 5-8, July 2021 organized by SSN Research Centre, SSN Institutions, Kalavakkam, Chennai.
- **Oral Presentation** on paper titled “ Synthesis and characterization of Tungsten Doped ZnO nanoparticles for Physical and Biomedical applications” in International Virtual conference on Material Research held on 15-16th Sep, 2022 by Easwar Engineering College, Ramapuram, Chennai.
- **Oral Presentation** on paper titled “Growth, morphology, dielectric, optical and hemolytic properties

of metal doped ZnO nanotubes” in International conference on Material Science Technology and Sustainable Development held on 18-19th April 2024 at RPS Degree College, Mahendergarh, Haryana.

- **Oral Presentation** on paper titled “ Zootherapeutic: A Potential Pharmacopia in the conference on systems of knowledge in India in International conference “EQUINOX 2024” held on 4th to 5th September 2024 at Maitreyi College, University of Delhi.
- **Oral Presentation** on paper titled “Zoo-therapeutic - A cost effective and sustainable way of Health care” in **International Conference** on “Viksit Bharat@2047: Strategies for an inclusive and Sustainable Development in the global context” held on 4th March 2025 at Shivaji College, University of Delhi.
- **Oral Presentation on paper titled** “Traditional Indian Zoo-therapeutic practices in modern context” in **International Conference** on “Indigenous Knowledge system and sustainable development” on 9th to 10th by March 2025 Shaikshik Foundation in collaboration with NCPSL & Shivaji College, University of Delhi

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

- Supervisor of students under Minor Research Project entitled “Synthesis and characterization of multifunctional ZnO nanoparticles for biomedical, piezoelectric and ferroelectric applications” sanctioned by Research cell, Shivaji College, University of Delhi
- Supervisor of Junior Research fellow under Major Research Project project funded by Indian National Science Academy

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.
- Best Poster Presentation award in 2nd National Conference on “New Trends in Nanotechnology & Applications” NTNA-2020 held at Atma Ram Sanatan Dharma College, University of Delhi, on February 6-7, 2020.
- Qualified the Rigaku School for Practical Crystallography, USA test with honors on 24th July, 2020
- Got Highest grade in three months CSIR Summer Research Training Program 2020.
- Got Best oral presentation award in the 2nd International Symposium on “Modeling of crystal growth processes and devices” (MCGPD 2021)
- Resource Person, National Children’s Science Congress Uttar Pradesh
- Resource Person, INSPIRE Science Camp held in Shivaji College.
- Resource Person of Value Added Course on “Differential Equations with Scientific Applications” on November 1st 2021
- Resource Person of Add-On Course offered by Physics “Department on Latex for Academic Writing” during March-April 2024.

- Resource person in Vidya Bharti Internship Program, organized by Bhartiya Bhasha Samiti, Ministry of Education in collaboration with Vidya Bharti Uchcha Shiksha Sansthan, held from 22nd August to 20th September 2024
- Resource person in workshop on “Redesigning and Upgradation of Physics Laboratory in Light of NCFSE 2023” organized by Department of Education in Science and Mathematics, NCERT from 6th Jan to 10th Jan 2025.
- Resource person for refine the draft guidelines for catalytic grant to selected project under PRAYAAS 2025 on 4th Feb 2025
- Resource Person, Add-on Course on “Guide of materials characterization Techniques”, (August 21, 2025 – September 27, 2025) Organised by Department of Physics, Shivaji College.

Memberships

- Life time membership for Indraprastha Vigyan Bharti (VIBHA)

Other Academic Activities

Organizing Committee Member

- Convener of Science Exhibition program on District level
- Head of Science Centre in SBVM School.
- Convener of National Cyber Olympiad In-charge.
- Physics Workshop “Pratibimb” in Shivaji College Delhi University in 2016.
- DST Inspire Camp, Shivaji College 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.
- Physics Society Event INVENIO on September 30, 2019, at Shivaji College.
- International Webinar on Recent trends in Material Sciences, Organised by Department of Physics, Shivaji College, on October 10, 2020.
- International Webinar on Era of Optical clocks, Organised by Department of Physics, Shivaji College, on December 4, 2020.
- 4 day capacity building program on “Research Methodology” under aegis of Vidya Vistar Scheme from August 26-29, 2021.
- Webinar on “Role of IQAC in Accreditation Framework of NAAC” on September 21, 2021.
- One Day Lab Training Program “Nanomaterials Virtual Lab Training and Applications” on January

2022.

- Orientation Program of Value Added Course “Differential Equations with Scientific Applications” on November 1st 2021
- Physics Department online Induction Program on November 18, 2021.
- Organizing member of One Day Lab Training Program “Nanomaterials Virtual Lab Training and Applications” on 27th January 2022 with collaboration of in Department of Physics, Shivaji College, Bhagini Nivedita College, Motilal Nehru College and Bhaskaracharya College of Applied Science
- Webinar on Climate Changes and its Consequences: Responses and Solutions” organized under the Vidya Vistar Scheme by Shivaji College on February 14, 2022
- Webinar on topic “Mass Spectrometry : The Expanding Horizons” held on February 22, 2022.
- Webinar on topic “National Education Policy 2020- Transforming the vision for education in India” held on October 4, 2021.
- “Intellectual Property Rights Awareness Program” held on January 6th 2022.
- Webinar on “Ayurveda: Path of Healthy Living” organized under the Vidya Vistar Scheme by Shivaji College on January 31, 2023.
- Technical organizing committee Member for “The 9th International Conference on Physical Chemistry, April 2024, Xiamen, China.
- Organising committee member for in Research Cell Event “Srijan 24” Research Cell, Shivaji College, University of Delhi
- International Webinar on “Materials Science”, organized by Physics Department, Shivaji College, University of Delhi on 11th November 2024.
- Organising committee member for in Research Cell Event “Srijan 25” Research Cell, Shivaji College, University of Delhi
- Organising committee member for in Placement Cell Fair, Placement Cell, Shivaji College, University of Delhi
- Organizer, State Level Camp (Level-III), Vidyarthi Vigyan Manthan 2025-26, (January 4, 2026) Organised by Vijnana Bharati (VIBHA) at Shivaji College.
- Organising committee member International Conference organised by Department of Physics, Shivaji College, on 9th -10th April, 2026
- Organising committee member of Sapt Shakti Nari Sammelan, organised by Vidya Bharti Uchcha Shiksha Sansthan on 1st May, 2026

Cultural/Extracurricular Activities

- First position in Akhil Bhartiya Gyan Pariksha (Prathma and Uttama both) organized by Sanskrit Bhawan, Kurukshetra.
- 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.
- Given Live lecture as Physics expert in NCERT
- **Reviewer** of virtual lab e-content under PMeVIDYA program, CIET- NCERT.

As Coordinator of IIRS-ISRO Outreach Programme

Course Conducted

- Geo Informatics for Biodeversity conservation Planning (6 to 17 December 2021)
- “Overview of Geoprocessing using Python” (17 to 28 January 2022)
- Advanced Geospatial technologies for Disaster Risk Reduction (18-04-2022 to 29-04-2022)
- Status, Challenges and Opportunities for Geospatial Technology Applications in Irrigation Water Management (17-05-2022)
- Remote Sensing and Digital Image Analysis (August 22, 2022 to September 16, 2022)
- Basics of "Remote Sensing, Geographical Information System and Global Navigation Satellite System (August 22, 2022 to November 25,2022)
- Fundamentals of Remote Sensing & GIS Technology (Course in Hindi) September 14, 2022 to September 28, 2022
- Geospatial Modeling Driven Urban Hazard and Risk Analysis (February 13, 2023 to February 17, 2023)
- RS and GIS applications in Atmospheric and Oceanic Hazards (February 27, 2023 to March 03, 2023)
- Overview of Space Technology (Course in Hindi) was conducted from September 14, 2023 to September 28, 2023
- Outreach Program on Overview of Global Navigation Satellite System was conducted from September 25 – October 06, 2023
- Overview of Geographical Information System. was conducted from October 09- October 20, 2023
- Overview of Geo-computation and Geo-web services was conducted from October 30 – November 03, 2023
- RS & GIS Applications in Natural Resource Management was conducted from November 06- November 17, 2023
- One day workshop on Monitoring Forest Disturbances using Geospatial Technology was conducted on October 4, 2023
- Remote sensing based data analytics in Agriculture was conducted on 26 October, 2023
- Online training course on Geodata Processing using Python conducted by this institute during January 15, 2024 to January 19, 2024
- AI/ML for Geodata Analysis was conducted from August 19, 2024 to August 23, 2024
- LIDAR Data Processing and Applications was conducted from August 05, 2024 to August 16, 2024
- Basics of “Remote Sensing, Geographical Information System and Global Navigation Satellite System was conducted from August 27, 2024 to November 22, 2024
- Remote Sensing and Digital Image Analysis was conducted from August 27, 2024 to September 20, 2024
- Overview of Global Navigation Satellite System was conducted from September 23, 2024 to October 04, 2024
- Overview of Geographical Information System was conducted from October 14, 2024 to November 01, 2024
- Geo-data sharing and Cyber Security was conducted from December 09, 2024 to December 20, 2024
- Geodata Processing using Python and Machine Learning was conducted from February 17, 2025 to February 28, 2025
- “Basics of “Remote Sensing, Geographical Information System and Global Navigation Satellite

System” was conducted from 25 August 2025 to 21 November 2025

- “Remote Sensing and Digital Image Analysis.” was conducted from September 25 – 25 August 2025 to 19 September 2025
- Remote Sensing Data Analytics for Crop Production Forecasting was conducted from June 16, 2025 to June 20, 2025
- IIRS Outreach Programme on Geodata Processing using Python and Machine Learning ” was conducted from Feb 9 –Feb 20, 2026

Nidhi

Signature of Faculty Member