




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Neeru	Last Name	Sharma	Photograph
Designation		Assistant Professor				
Address		20, Shipra Vihar, Ganga Nagar Meerut, UP-250001				
Office Phone No.						
Residence						
Mobile		9610599806				
Email		neerupathak93@gmail.com , neeru@shivaji.du.ac.in				
Web-Page						
Educational Qualifications		Ph.D.				
Degree		University/Institute			Year	
Ph.D.		MNIT Jaipur			2020	
M.Phil./M.Tech.		NA				
PG		M.SC			2014	
UG		B.SC			2012	
Any Other Qualification						
Career Profile						
<ul style="list-style-type: none"> Working in Shivaji College as Assistant Professor Physics from 21 November 2023 onwards. Worked in Suresh Gyan Vihar University Jaipur as Assistant Professor till 2020. Worked in SKIT Singhavli Ahir Baghpat as Lecturer till 2015. 						
Administrative Assignments						

- **Member of Student Advisory and Discipline Committee.**
- **Member of Centre for Environment and Disaster Management.**
- **Member of NAAC of Criteria 5.**

Areas of Interest/Specialisation

Synthesis and characterization of Graphene, Metal Oxide, Perovskite Oxide, Fabrication of Gas Sensor

Subjects Taught

Solid State Physics, Mathematical Physics, Electricity and magnetism, Semiconductor and devices, wave and Optics, Thermal Physics, Programming with Python

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

Publications Profile (Research Papers/Books)

Citations: 608

- [1] **N. Sharma**, V. Sharma, Y. Jain, M. Kumari, R. Gupta, S.K. Sharma, K. Sachdev, Synthesis and Characterization of Graphene Oxide (GO) and Reduced Graphene Oxide (rGO) for Gas Sensing Application, **Macromol. Symp.** 376 (2017) 1700006(1-5)
- [2] V. Sharma, **N. Sharma**, S. Singh, D. Singh, G. Makhija, K. Asokan, K. Sachdev, Study of 120 MeV Ni⁷⁺ ion beam irradiated SnO₂/Ag/SnO₂ multilayer thin films, **AIP Proceedings** 1832(2017) 080090(1-3).
- [3] **N. Sharma**, V. Sharma, S.K. Sharma, K. Sachdev, Gas sensing behaviour of green synthesized reduced graphene oxide (rGO) for H₂ and NO, **Materials Letters** 236(2019) 444-447.
- [4] **N. Sharma**, S.K. Sharma, K. Sachdev, Effect of precursors on the morphology and surface area of LaFeO₃, **Ceramics International** 45 (2019) 7217-7225.
- [5] G. Makhija, V. Sharma, S. Singh, **N. Sharma**, R. Vyas, K. Sachdev, Investigation on the suitability of water / polyethylene glycol solutions for GO layer deposition in GO / Ag / GO films

for transparent conducting electrode, **Applied Nanoscience** 9 (2019) 1671-1683.

[6] **N. Sharma**, V.Sharma, R.Vyas, M.Kumari, A.Kaushal, R.Gupta, S.K.Sharma, K.Sachdev, A New Sustainable Green Protocol for Production of Reduced Graphene Oxide (rGO) and its Gas Sensing Properties, **Journal of science: Advanced Materials and Devices**, 4(2019)473-482

[7] **N.Sharma**, R.Vyas, V.Sharma, H.Rahman, S.K.Sharma, K.Sachdev, A Comparative Study on Gas Sensing Behavior of Reduced Graphene Oxide (rGO) Synthesized by Chemical and Environment Friendly Green Method, **Applied Nanoscience**, 10 (2019) 517-528.

[8] **N.Sharma**, H. S.Kushwaha, S.K.Sharma, K.Sachdev, Fabrication of LaFeO₃ and rGOLaFeO₃ Microspheres based Gas Sensors for Detection of NO₂ and CO, **RSC Advances** 10, 2020, 1297-1308

[9] **Neeru Sharma**, Chhavi Kumar Jangid, S. K.Sharma, K. Sachdev, Comparative Study of One Step and Two Step rGO-LaFeO₃ Composite, **AIP Conference Proceeding**, 2265, 030681 (2020)

Conference/Seminar/Faculty Development Programme/Workshop

Conferences:

- **61st DAE Solid State Physics Symposia (National Conference)-2016.**
- **2 nd International Conference on Soft Materials (ICSM), MNIT, Jaipur, India, 2016.**
- **3 rd International Conference on Soft Materials (ICSM), MNIT, Jaipur, India, 2018**
- **64th DAE Solid State Physics Symposia (National Conference)-2019.**
- **International conference on Prospective of interdisciplinary research in science and technology in present scenario, organized by C C S U Meerut Campus during 15-16 May 2020.**
- **International conference on Advanced Nanomaterials and Application (VCAN 2020), organized by VIT, Vellore India during 17-19 June 2020.**
- **4 th International Conference on Soft Materials (ICSM), MNIT, Jaipur, India, 13-18 December 2020.**
- **International conference on Resurgent Bharat on the Global Canvas organised by NCPST & Shivaji College University of Delhi during 25-26 Feb 2024**

FDP/Orientation Programme:

- **NEP-2020 Orientation Programme on the theme "Student Diversity and Inclusive Education" under MMTTP of UGC organised by UGC MMTTC, Aligarh Muslim University from 20th Dec to 29th Dec 2023.**
- **4-week FDP for "Faculty in Universities/College/Institutes of Higher Education" from 22 Jan to 20 Feb 2024 organised by Teaching Learning centre Ramanujan College, University of Delhi with grade A+**

Workshops/Short term Courses:

- One Day Workshop on Emerging Materials and Devices for Nanotechnology Applications on **27 July 2017** at MNIT Jaipur.
- School on characterization of materials, organised by IUAC, New Delhi during **4-9 September 2017.**
- Academy Training Programme on "Sensors for Flexible Electronics Application during **December 9th -10th 2017** under the aegis of Electronics of Technology & ICT Academy MNIT Jaipur.
- **24th Hands-on Training on Gas Sensor and Micro and Nano characterization Techniques, 14th -23rd February 2018, CeNSE, INUP IISc Bangalore.**
- Workshop on Nano Forms of Carbon, **19th -23rd March 2018**, MNIT Jaipur.
- One day symposium on "Energy Materials and their Application", **18th October, 2018**, MRC, MNIT Jaipur.
- Short term courses on "Properties of Nano Materials-Why & How They Differ from their bulk Count-part, **13th -17th Nov. 2018**, MRC, MNIT Jaipur
- Short term course on "Nanostructures-Nanoparticles & Thin films: Synthesis and characterization", **11th-15th February, 2019**, MRC, MNIT Jaipur.
- Workshop on "Science Media Research: Science creatives & Media School for Scientists & Media", **6th to 8th March 2019**, CSIR-CEERI's Incubation-cum-Innovation Hub, Jaipur Centre.
- Workshop on, "Energy Storage: The Future of Energy", during **11th - 15th March 2019**, MNIT Jaipur.

- GIAN course on “protective coatings: low friction wear and corrosion”, **1st -5 th July 2019**, MRC, MNIT Jaipur.
- Short term course on “Current Advancement and Future Opportunities in Materials Science and Technologies”, **26th -30th August 2019**, MNIT Jaipur.
- Skill Development Program on “Material Characterization Techniques”, **3rd -7 th 2019, MRC MNIT Jaipur.**
- Short Term Course on Current Trends in Graphene Synthesis and Applications, October **15-19, 2019**, MRC MNIT Jaipur sponsored by TEQIP-III
- Coursera course on The Science of Well-Being authorized by Yale University **23-28 June 2020 with grade 9.2.**
- Coursera course on Material Processing authorized by George University of Technology **10-14 July 2020 with grade 9.23**

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

Awards and Distinctions

1 st runner up in M.Sc
2nd runner up in B.Sc
National Service Scheme (NSS) 2010-2012
Qualified “Graduate Aptitude Eligibility Test (GATE – 2015)

Memberships

Life membership of Soft Material Research Society of INDIA (SMRSI)

Other Academic Activities

- 1) Organized one day webinar on **Development of Naked Eye Fluoride ion Receptors**, 15th August 2020, SGVU Jaipur-**Co-coordinator**
- 2) Organized one day webinar on **Material Characterizations using X-rays as Probes**, 21 st August 2020, SGVU Jaipur-**Coordinator**
- 3) Organized one day webinar on **Role of Electron Microscopy in Micro structural Characterizations**, 5 th September 2020, SGVU Jaipur-**Coordinator**
- 4) Workshop on nano forms of carbon, 19th -23rd March 2018, MNIT Jaipur. 5) Short term courses on nano materials 12th -17th Nov. 2018, MRC, MNIT Jaipur-**volunteer (Student Organiser)**
- 6) Kishore Vaigyanik Protsahan Yojana (KVPY)- **-volunteer (Student Organiser)**
- 7) Short term course on “Thin films: Synthesis and characterization”, 11th -15th February, 2019, MRC, MNIT Jaipur-**volunteer (Student Organiser)**
- 8) Global Initiative on Academic Networks (GIAN) program, sponsored by MHRD, Govt.of India on

protective coatings: low friction wear and corrosion, 2019--volunteer (Student Organiser)

Cultural/Extracurricular Activities

- Annual Department Fest of Physical Science(Chemistry) Shivaji college-PHI PSI 2024-Organiser held on 6 Feb 2024.
- Invenio -The Physics Society of Shivaji College, Annual Physics Fest (Quanta' 24)- Organiser held on 19th March 2024.
-



Signature of Faculty Member