

Dr. Neha

Name : Dr. Neha
Address : Village +Post Talheri Buzurg Distt. Saharanpur,
Pin – 247554
Mobile No.: +91 – 8755748725
E-Mail Id : neha.gugar01@gmail.com



Academic Qualification:

Doctor of Philosophy (Physics)

DIT University, Dehradun
Mussoorie, Diversion Road, Makka Wala,
Uttarakhand 248009

Awarded
6th October 2022

- Title – Synthesis and Characterization Of BZT-BCT System Modified at A-Site By Sm and B-Site By Fe

Master Of Science (Physics)

JECRC University, Jaipur

Graduated, 2016
CGPA 8.71

Bachelor Of Science

Jayoti Vidyapeeth
Women's University, Jaipur (JVWU)

Graduated, 2014
Marks 74%

Higher Secondary (10+2)

Translam Academy International, Meerut
CBSE,

Completed, 2011
Marks 69%

Higher Secondary (10th)

Adarsh Intermediate College Saharanpur, U.P.
U.P. Board

Completed, 2009
Marks 69%

Key Attributes:

- Extremely Hard Working Disciplined & Self-Motivated.
- Take Initiative to Shoulder Responsibility and Welcome Challenges.
- Zeal For Learning and Exploring New Opportunities.
- Quite Flexible in Any Kind of Environment.
- Innovative And Technical Attitude Towards Research Activities

Research Project:

Organization: Vikram Sarabhai Space Centre, ISRO Thiruvananthapuram

Designation: Research Analyst

Period: June, 2016- December, 2016

Description: Worked on Solar Plasma Waves:

- Study of Solar Plasma Waves with Magnetic Field Observations at L1 Point.
- Analysis of Magnetic Field Data of WIND and ACE Spacecraft.
- Finding results by using MATLAB Tool.

Research Internship:

Organization: Indian Institute of Tropical Meteorology (IITM), Pune

Designation: Intern Research Analyst

Period: March, 2016 – June, 2016

Description: Worked on Solar Physics, System of Air Quality and Weather Forecasting and Research (SAFAR)

- Understanding different pollutants like PM10, PM2.5 and other particles.
- Understanding Air Quality Index.
- Finding the results of different particles which are more effective for human being.

Working Experience:

Organization: DIT University, Dehradun

Designation: Teaching Assistant (TA)

Period: During Ph D for 3 years

Description: Teaching

- Undergraduate Labs (Waves and Optics, Modern Physics, Mechanics Lab, Electricity and Magnetism, Thermal Physics)
- Post graduate Labs (Modern Physics, Electronics Lab)

Awards and Certificates:

- Acted As **Moderator** in The Technical Session in International Web Conference (GRISAAS-2020) Held During 28-30th December, 2020.
- Awarded As **2nd Prize in Poster Presentation** at National Conference
- Entitled Structural, Dielectric and Ferroelectric Properties Of BZT-BCT Ceramics Modified By Sm^{3+} And Fe^{3+} Ions **Received Best Oral Presentation Award** In International Web Conference.
- Acted As a **Rapporteur** During the National Conference (ICAAAS-2016) At Prof. Jayashankar, Telangana State Agriculture University, Hyderabad

- Acted As a **Rapporteur** During International Conference on GRISAAS-2017 Held at Maharana Pratap University of Agriculture and Technology, Udaipur
- Acted As a **Rapporteur** During International Conference on GRISAAS-2018 Held at Rajasthan Agricultural Research Institute (SKNAU, Jobner), Jaipur
- Acted As a **Rapporteur** During International Conference on GRISAAS-2019 Held at ICAR-National Academy of Agricultural Research Management, Hyderabad
- **Life Member** of Society for The Scientific Development in Agriculture and Technology, Meerut for Progressive Research-An International Journal Since December 2020.
- Acted As a **Joint Organizing Secretary** of The International Conference On ‘Global Research Initiatives as Sustainable Agriculture and Technology (GRISAAS-2019) Is Organized by Astha Foundation At ICAR-NAARM, Hyderabad
- Acted As a **Joint Organizing Secretary** of The International Conference On ‘Global Research Initiatives as Sustainable Agriculture and Technology (Grisaas-2018) Is Organized by Astha Foundation At SKNAU-Rari, Jaipur
- Acted As a **Joint Organizing Secretary** of The International Conference On ‘Global Research Initiatives as Sustainable Agriculture and Allied Sciences (GRISAAS-2017) Is Jointly Organized by Astha Foundation and Society for The Scientific Development in Agriculture and Technology At MPUAT, Udaipur
- Acted As a **Joint Organizing Secretary** of The International Conference On ‘Innovative and Current Advances in Agriculture and Allied Sciences (ICAAAS-2020) Is Jointly Organized by Astha Foundation and Society for The Scientific Development in Agriculture and Technology at Bangkok, Thailand.
- **2nd Topper** (B. Sc) In JVWU.
- Member Of the Student Council During College
- Organized Jayoti Utsav (Technical Fest) In JVWU.
- Organized Blood Donation Camp In JVWU.
- Played Badminton at District Level.
- Awarded With **1st Prize at State Level** in Bhartiya Sanskriti Gyan Pariksha.
- **Discipline Border** in Class 12.
- **School Topper** In Class 10th.
- Awarded As **Best Speaker** in Class 9.
- Vice-House Captain During School.

Publications:

1. **Neha**, P. Sharma, V. Kumar, M. Bhatnagar, P. Kumar, C. Prakash, Synthesis And Dielectric Properties Of BCT Ceramics Co-Substituted By Sm^{3+} And Fe^{3+} For Capacitor Applications, Journal of Alloys and Compound., 882 (2021) 160619.
2. **Neha**, P. Kumar, M. Bhatnagar, A. Singh, C. Prakash, Structural, Dielectric, Ferroelectric And Ferromagnetic Properties In Fe-Substituted BCT Ceramics For Energy Storage And Capacitor Applications, J. Material Science: Mater Electron., 32, (2021) 17620–17628.
3. **Neha**, R. Pandey, M. Bhatnagar, P. Kumar, R. K. Malik, C. Prakash, Improved dielectric and energy storage properties in $(1-x)\text{BaTi}_{0.80}\text{Zr}_{0.20}\text{O}_3-x\text{Ba}_{0.70}\text{Ca}_{0.30}\text{Ti}_{0.99}\text{Fe}_{0.01}\text{O}_3$ ceramics near morphotropic phase boundary, Materials letters, 318 (2022) 132126.
4. A. Mehta, **Neha**, P. Kumar, C. Prakash, Electric Field Strength And Frequency Dependent Room Temperature Ferroelectric Properties Of BCTLF Ceramics In AIPConference Proceedings (**Accepted**)

List Of Attended Conferences/Seminars/Workshops/Webinars and Other Activities:

1. Attended National Seminar on Advanced Functional Materials- 2022 (sponsored by DRDO and MRSI) at Maharaja Agrasen Institute of Technology, Delhi.
2. Attended Two days' Workshop On "Possible Funding Opportunities in Materials Science" sponsored by SERB-DST Under SSR Scheme and organized by Department of Applied Sciences, Punjab Engineering College (Deemed to be University), Chandigarh (6-7, August 2021).
3. "Virtual Conference On "Advances in Functional Materials" (AFM-2020) And Pre-Conference International Workshop on Ferroelectric and Piezoelectric Nanomaterials and Devices Organized by Kalinga Institute of Industrial Technology (KIIT) Deemed to Be University, Odisha (26-28 August 2020).
4. Virtual Conference On "Advanced Nanomaterials Applications" (Vcan-2020) Organized by Centre for Nanotechnology Research (CNR), Vellore Institute of Technology, Vellore (17-19 June 2020).
5. "Materials Sciences and Applications" (ICMSAA-2019) H.N.B Garhwal University, Srinagar, (26-28 November 2019)
6. Attended "Environment Nanotechnology for Social-Economics Development of India (ENTSED- 2018) DIT University, Dehradun
7. Attended "Physics and Chemistry of Materials" At Department of Applied Sciences, Maharaja Agrasen Institute of Technology, New Delhi, (25-26 April 2019)
8. Attended "Functional Material for Device Application" At Department of Physics, Guru Nanak Dev University, Amritsar, (7-8 March 2018)
9. Attended "IP and Youth, Innovative for a Better Future" organized by Intellectual Property Office, Government of India, DIT University, Dehradun, 26 April 2022.
10. Attended International Conference in Hybrid Mode on "Global Research Initiatives for

Sustainable Agriculture & Allied Sciences” (GRISAAS-2021), at SKRAU, Bikaner, Rajasthan, December 13-15, 2021.

11. Oral Presentation in International Conference in Hybrid Mode on “Global Research Initiatives for Sustainable Agriculture & Allied Sciences” (GRISAAS-2021), at SKRAU, Bikaner, Rajasthan, December 13-15, 2021.
12. Participated in The International Conference On ‘Global Research Initiatives as Sustainable Agriculture and Technology (GRISAAS-2019) Is Organized by Astha Foundation At ICAR-NAARM, Hyderabad.
13. Participated in International Web Conference (GRISAAS-2020) Held During 28-30th December, 2020.
14. Attended National Conference (ICAAAS-2016) At Prof. Jayashankar, Telangana State Agriculture University, Hyderabad.
15. Attended National Semi-Virtual Conference on “Nanomaterials for Energy and Advanced Technologies” (NEAT-2021) Organized by Department of Physics and Department of Mechanical Engineering, DIT University, Dehradun (18-19 March 2021).

References:

1. Dr. Parveen Kumar
Associate Professor, Department of
Physics DIT University, Dehradun
Email: parveenpaliwal@gmail.com, parveen.kumar@dituniversity.edu.in
[Tel.: \(+91\)8650002221](tel:+918650002221)
2. Dr. Chandra Prakash
Professor, Department of Applied Physics
Maharaja Agrasen Institute of Technology, New Delhi
Email: cprakash2014@gmail.com
[Tel.: \(+91\)9810825175](tel:+919810825175)

Personal Details

Father's Name- Mr. Rajendra Kumar
Nationality- Indian
Date Of Birth - 12th March, 1994
Sex- Female
Marital Status-Unmarried
Permanent Address- Village +Post Talheri Buzurg Distt. Saharanpur, Pin – 247554
Contact Details- Email: neha.gugar01@gmail.com
Mobile No.: +91 - 8755748725 (India)

Declaration:

I Hereby Declare That The Above Information Is True To The Best Of My Knowledge.

Date:

Place:

(Dr. Neha)