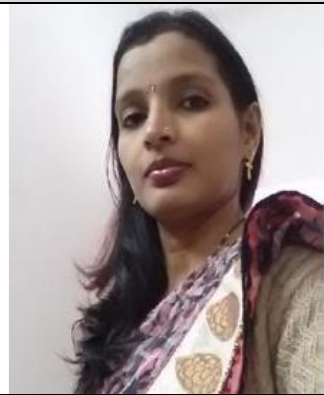


Title	Dr.	First Name	<b>Archana</b>	Last Name	<b>Tripathi</b>	Photograph
Designation		Assistant Professor				
Address		<b>D-246, Sector-105, NOIDA, Gautam Budh Nagar, Uttar Pradesh- 201304</b>				
Phone No. Office						
Residence						
Mobile		<b>9810888759</b>				
Email		<b>atripathi@db.du.ac.in</b>				
Web-Page		<a href="https://www.researchgate.net/profile/Archana-Tripathi-7">https://www.researchgate.net/profile/Archana-Tripathi-7</a>				
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D.	<b>Indian Institute of Technology, Delhi</b>				<b>2014</b>	
M.Phil.	-				-	
PG	<b>University of Delhi</b>				<b>2008</b>	
UG	<b>University of Delhi</b>				<b>2006</b>	
Any other qualification	<b>NET, GATE, JEST</b>				<b>2008</b>	
<b>Career Profile</b>						
<ol style="list-style-type: none"> <li>1. Assistant Professor in Department of Physics, Gargi College, D.U.---- July 2008-November2022</li> <li>2. Assistant Professor in department of Physics, Deshbandhu College, D.U.--- November 2022 onwards.</li> </ol>						
<b>Administrative Assignments</b>						
<b>Areas of Interest/Specialization</b>						
<b>Condensed Matter Physics</b>						
<b>Subjects Taught</b>						
<b>Solid State Physics</b>		<b>Communication System</b>		<b>Applied Optics</b>		
<b>Weather Forecasting</b>		<b>Mechanics</b>		<b>Statistical Physics</b>		
<b>Numerical Analysis</b>		<b>Programming with C++</b>				
<b>Research Guidance</b>						
<b>Publications Profile</b>						
<b>Research Paper Published in Refreed/Peer reviewed Journals:</b>						
<ol style="list-style-type: none"> <li>1. A lattice dynamical investigation of the Raman and the infrared wavenumbers of SBT (SrBi<sub>2</sub>Ta<sub>2</sub>O<sub>9</sub>), Journal of Molecular Structure Volume 984, Issues 1–3, 15 December 2010, Pages</li> </ol>						

204–208

2. Lattice vibrations of  $\text{ABi}_2\text{Nb}_2\text{O}_9$  crystals (A = Ca, Sr, Ba), *Vibrational Spectroscopy*, Volume 56, Issue 2, 18 July 2011, Pages 235-240
3. Lattice dynamical investigations for Raman and infrared frequencies of  $\text{Bi}_2\text{WO}_6$ , *Journal of Molecular Structure*, Volume 1005, Issues 1–3, 16 November 2011, Pages 53-58
4. A lattice dynamical investigation for the Raman and the infrared frequencies of  $\text{Bi}_2\text{W}_2\text{O}_9$ , *Physica B: Condensed Matter*, Volume 407, Issue 3, 1 February 2012, Pages 477-484
5. Investigation of Raman and infrared phonon modes in case of Barium Bismuth Tantalate ( $\text{BaBi}_2\text{Ta}_2\text{O}_9$ ), *Vibrational Spectroscopy*, Volume 68, 14 June 2013, Pages 129-132
6. Investigation of Lattice Dynamics of Bi-doped Strontium Bismuth Niobate ferroelectric ceramic, *Journal of Basic and Applied Engineering Research*, Volume 2, Issue 22, December 2015, Pages 1936-1940.
7. Lattice dynamics of Aurivillius Oxides  $\text{K}_{0.25}\text{Na}_{0.25}\text{La}_{0.5}\text{Bi}_2\text{Nb}_2\text{O}_9$  and  $\text{K}_{0.25}\text{Na}_{0.25}\text{Bi}_{2.5}\text{Nb}_2\text{O}_9$ , *AIP conference Proceedings*, Volume- 1728, Pages 021657.
8. A normal coordinate analysis of  $\text{Sr}_2\text{BO}_4$  crystals (B = Ti, V, and Mn), June 2021, *Materials Today: Proceedings*, DOI: 10.1016/j.matpr.2021.06.015
9. First principle investigations of half metallicity in Heusler compounds with  $\text{X}_2\text{TiZ}$  (X = V, Cr, Mn, Fe, Co, and Ni; Z = Si, Ge), August 2021, *AIP Conference Proceedings* 2352(1):020092, DOI: 10.1063/5.0052490
10. A lattice dynamical investigation of the Raman and the infrared wave numbers of Ruddlesden-Popper compound  $\text{Sr}_2\text{TiO}_4$ , August 2021, *AIP Conference Proceedings* 2352(1):020089, DOI: 10.1063/5.0052397
11. Study of lattice dynamics of Ruddlesden-Popper compounds  $\text{Sr}_2\text{RuO}_4$  and  $\text{Sr}_2\text{TcO}_4$ , January 2022, *Indian Journal of Physics*, DOI: 10.1007/s12648-021-02241-8
12. Lattice vibrations of the Ruddlesden-Popper compounds barium orthorhodate, barium orthoirdate, barium orthoplumbate, and barium orthostannate in tetragonal phase, February 2022, *Spectroscopy Letters* 55(35):1-8, DOI: 10.1080/00387010.2022.2030363
13. Effect of M site cation ordering on the lattice dynamical properties of the tetragonal  $\text{Sr}_2\text{MO}_4$  (M=Cr, Fe, Co, Mo, and Sn) crystals, February 2022, *Philosophical Magazine*, DOI:10.1080/14786435.2022.2035006
14. Study of zone center phonons in double-perovskite oxides  $\text{Ba}_2\text{CdTeO}_6$ , May 2022, *MRS Advances*, DOI: 10.1557/s43580-022-00290-7
15. Lattice dynamical investigation of the Raman and infrared wave numbers of Ruddlesden–Popper compound  $\text{Sr}_3\text{Ti}_2\text{O}_7$ , August 2022, *MRS Advances* 7(5), DOI: 10.1557/s43580-022-00325-z

## Chapters Published

1. First Principle Investigations of Half-Metallicity in  $\text{Co}_2\text{YZ}$  (Y = Sc, Y; Z = P, As, Sb, Bi), October 2022, In book: *Advances in Functional and Smart Materials*, DOI: 10.1007/978-981-19-4147-4\_23

Conference Organization/ Presentations
<b>Participation as Paper/Poster Presenter</b>
<p>1. International conference on Current Developments in Atomic, Optical and Nano-Physices, CDAMOP-2011 and presented the paper “<b>Archana</b>, H.C. Gupta and Vandna Luthra, Lattice investigations of Raman and infrared phonon modes in case of Lead Niobates” as poster.</p> <p>2. 23<sup>rd</sup> International Conference on Raman Spectroscopy, ICORS-2012 and presented the paper “<b>Archana</b> and H.C. Gupta, Raman and infrared phonon modes in case of Bismuth Molybdate using Normal coordinate analysis” as poster.</p> <p>3. International conference on Condensed Matter and Applied Physics, ICC 2015 and presented the paper “ Archana and H.C. Gupta, Lattice dynamics of Aurivillius Oxides <math>K_{0.25}Na_{0.25}La_{0.5}Bi_2Nb_2O_9</math> and <math>K_{0.25}Na_{0.25}Bi_{2.5}Nb_2O_9</math>” as poster which was selected for AIP Proceedings.</p> <p>4. ADVANCED MATERIALS AND RADIATION PHYSICS (AMRP-2020): 5th National e-Conference on Advanced Materials and Radiation Physics, “First principle investigations of half metallicity in Heusler compounds with <math>X_2TiZ</math> (<math>X = V, Cr, Mn, Fe, Co,</math> and <math>Ni; Z = Si, Ge</math>)” as poster which was selected for AIP Proceedings.</p>
Research Projects (Major Grants/Research Collaboration)
NA
Awards and Distinctions
Association With Professional Bodies
r
Other Activities

