

BIO-DATA

1. Name and full correspondence address: Dr. G. Nag Bhargavi
10/144 Santoshi Nagar, Near - Nagar Nigam office Khamtarai, Raipur, (CG)
2. Email id and contact number(s): bhargavi.nag24@gmail.com, 9981373012
3. Institution: Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur (CG)
4. Date of Birth: 24.07.1983
5. Gender (M/F/T): Female
6. Category Gen/SC/ST/OBC: General
7. Designation: Assistant Professor (Academic level -10)

8. Academic Qualification (Undergraduate Onwards)

S. No.	Degree	Year	Subject	University/Institution	% of marks	Distinctions etc.
1	B. Sc.	2004	Maths, Physics, Chemistry	Guru Ghasidas University, Bilaspur, (CG)	68.5%	-
2	M. Sc.	2006	Physics	Guru Ghasidas University, Bilaspur, (CG)	70.2%	3 rd rank in university
3	M. Phil.	2007	Physics	Guru Ghasidas University, Bilaspur, (CG)	74.5%	1 st rank in university
4	Ph. D.	2018	Physics	National Institute of Technology, Raipur, (CG)		

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award:
Investigation of structural, electrical and optical behavior of rare-earth doped Barium Zirconium Titanate (BZT) perovskite-type compounds.

Guide: Dr. Ayush Khare

Co- Guide: Dr. Nameeta Brahme

Institute: National Institute of Technology, Raipur (CG)

Year of Award: March, 2018

10. Work experience (in chronological order)

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1	Asst. Professor	Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur, Chhattisgarh	29.07.2016	Till now	Academic level 10
2	Asst. Professor	J P Mishra Govt. Science College, Mungeli, Chhattisgarh	22.11.2012	28.07.2016	Rs.15600- Rs.39100
3	Guest faculty	Govt. GNA PG college Bhatapara, Chhattisgarh	26.09.2011	09.03.2012	Rs. 15600 (consolidated)
4	Asst. Professor (Contractual basis)	Mahatma Gandhi Govt. College Kharsia, Chhattisgarh	01.10.2010	31.05.2011	Rs. 18840 (Consolidated)
5	Asst. Professor (Contractual basis)	Indrajeet Singh Govt. College Akaltara, Chhattisgarh	13.09.2007	30.04.2010	Rs. 12800 (Consolidated)

11. Total teaching experience: UG- 9 years as regular faculty
PG- 2 years

12. Specialization: Condensed matter Physics

13. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received at International/National/State/University level

S.No	Name of Award	Awarding Agency	Year
01.	Chhattisgarh Young Scientist Award in Physics discipline	Chhattisgarh Council of Science and Technology	2018
02.	Chhattisgarh Young Scientist Award in Physics discipline (First Runner)	Chhattisgarh Council of Science and Technology	2017
03.	Best Poster Competititon (in National Seminar)	Govt. Digvijay PG Autonomous college Rajnandgaon (CG)	2018
04.	Best Research Paper Award (in National Seminar)	Dr. Radhabai Naveen Kanya Mahavidyalaya, Raipur, (CG)	2015
05	Sadbhavan Naari Shakti Samman	Sadbhavana Sahitya Sansthan, Raipur (CG)	2018

06	Young Researcher Award 2021	Institute of Scholars, Bangaluru, Karnataka	2021
----	-----------------------------	--	------

14. Members in different committees/ boards etc.: (i) Departmental Research committee, Department of physics, Pt. Ravishankar Shukla University Raipur (CG)
(ii) Departmental Research committee, Department of physics, Govt. Nagarjun PG Science College Raipur (CG)
15. Membership of academic associations: (i) Professional membership- Institute of Scholars, Bangaluru, Karnataka
(ii) Life member- Luminescence Society of India, Baroda, Gujrat

16. Orientation program/ Refresher course/ short term course/ workshop

S.No	Name of program	Name of academic staff college	Duration
1	Orientation Program	Academic Staff College, Guru Ghasidas Vishwavidyala, Bilaspur (CG)	19 th May. 2014- 14 th Jun. 2014
2	Refresher Course	Academic Staff College, Guru Ghasidas Vishwavidyala, Bilaspur (CG)	13 th Jun. 2016- 2 nd Jul. 2016
3	Short term course on Recent trends in Materials Science II	Department of Physics, National Institute of Technology, Raipur, (CG)	30 th Sep.- 4 th Oct. 2013
4	Refresher Course in Physics	UGC- Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur, (CG)	16 th -28 th August 2021
5	Refresher Course in Physics	UGC- Human Resource Development Center, Gujarat University, Ahmedabad	21 st Jun. 2022- 4 th Jul. 2022
6	Interdisciplinary Refresher Course in Physical and Earth sciences	UGC- MMTTC, Pt. Ravishankar Shukla University, Raipur, (CG)	11 th Mar. 2024 – 23 rd Mar. 2024
7	NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME	UGC- MMTTC, Pt. Ravishankar Shukla University, Raipur, (CG)	19 th Jun. 2024- 28 th Jun. 2024

17. Research experience: 05 years (after Ph. D)
Ph.D awarded-nil
Ph.D registered-02

Details of scholars whose degree is awarded

S. No	Name of the scholar	Year of award	Title of the thesis

Details of registered scholars

S. No	Name of the scholar	Status
1	Pawan Kumar Research centre- Govt. Nagarjun PG Science college, Raipur (CG)	Registered
2	Yuvraj Singh Jagat Research centre- Pt. Ravishankar Shukla University, Raipur (CG)	Registered

18. Ongoing/completed research projects: NIL

19. Conferences/Seminar/workshop organized

S. No	<i>Conferences/Seminar/workshop organized</i>	Duration	Designation
1	National Seminar on Advanced Materials for Sustainable Industrial and Social Applications – NSAMSISA-2020	17 th -18 th Jan. 2020	Co-convener
2	National Seminar on Characterization and Processing of Advanced Materials- NSCPAM-2021	26 th June 2021	Convener
3	One week Virtual Workshop on Advanced Characterization Tools: Fundamentals and Applications	16 th -21 st May 2022	Convener
4	Two days National seminar on National Seminar on Advanced Materials and Characterizations	26 th -27 th Aug. 2022	Organizing Secretary

20. Invited talks presented-

S. No	<i>Conferences/Seminar/workshop organized</i>	Duration	organizer
8	<i>Invited talk on Global Science for Global Wellbeing</i>	28 Feb. 2023	Govt. Nagarjuna PG College of Science, Raipur
7	<i>Invited Talk on – “Introduction of Solid-State Physics”</i>	22 Dec. 2022	Govt. GNA PG college Bhatapara (CG)
6	<i>Invited talk on Fundamental Aspects of Solid-state Physics</i>	27 th Jul. 2022	Visakha Govt. Degree College for Women, Visakhapatnam (AP)
5	<i>Lectures series- Solid state physics- Introduction</i>	9 th Jul. 2022	Govt. E Raghavendra Rao PG Science College, Bilaspur (CG)
4	<i>Webinar on Raman Spectroscopy</i>	21 Dec. 2021	Govt. GNA PG college Bhatapara (CG)
3	Webinar on Career, Confidence and Motivation	10 th Sep. 2021	School of Science, O P Jindal University, Raigarh (CG)

2	Webinar during National Science Day	28 th Feb. 2021	Govt. TCL PG College Janjgir (CG)
1	Two days National workshop on Advances in Basic Science and Technology	4 th -5 th Nov. 2019	School of Science OP Jindal University, Raigarh, (CG)

21. Peer reviewer of any journal: (i) International Journal of Institute of Scholars
(ii) IOP Conference Series: Materials Science and Engg
(iii) ECS Journal of Solid State Science and Technology
(iv) Journal of the Korean Ceramic Society
(v) Journal of Materials Science: Materials in Electronics
(vi) IOP Conference Series 2nd National Conference on Signal Processing, Sustainable Energy Materials and Astronomy & Astrophysics 2023
22. Publications (List of papers published in National/ International peer reviewed, SCI Journals, in year wise descending order)

S. No.	Author(s)	Title	Name of Journal (preferably with DOI)	Volume	Page	Year
17						
16	Rashmi Sharma, Manendra Mehta, G. Nag Bhargavi	Thermoluminescence Properties of Borate Based Phosphors: A Review	International Journal of Engineering Research & Technology (IJERT) DOI : 10.17577/IJERTV12IS010047	Vol. 12 Issue 01, ISSN: 2278-0181	71-86	2023
15	G Nag Bhargavi, Tanmaya Badapanda & Ayush Khare	An investigation of structural, electrical and optical properties of lead-free barium zirconium titanate (BZT)-based ceramic compounds	Phase Transitions https://doi.org/10.1080/01411594.2021.1940181	94(6-8)	474-492	2021
14	G Nag Bhargavi, Tanmaya Badapanda, Ayush Khare, M Shahid Anwar & Nameeta Brahme	Investigation of structural and conduction mechanism of Europium modified BaZr _{0.05} Ti _{0.95} O ₃ ceramic prepared by solid-state reaction method	Applied Physics A Materials Science and Processing https://doi.org/10.1007/s00339-021-04628-0	127(7),	1-18	2021
13	G Nag Bhargavi, Tanmaya Badapanda, Ayush Khare and M Shahid Anwar	A study of enhanced structural, microstructural and dielectric behaviour of aliovalent ions doped	IOP Conference Series: Materials Science and Engineering doi:10.1088/1757-	ISSN:- 1757-8981 Vol-1120	012022 1-8	2021

		BaZr _{0.05} Ti _{0.95} O ₃ ceramic	899X/1120/1/012022			
12	G. Nag Bhargavi , T. Badapanda, A. Khare, P. K. Ray & N. Brahme	Investigation of structural and optical properties of gadolinium modified barium zirconium titanate ceramic	PHASE TRANSITIONS, https://doi.org/10.1080/01411594.2020.1758323	ISSN: 0141-1594 (Print) 1029-0338 (Online) VOL. 93, NO. 6	529–536	2020
11	G. Nag Bhargavi , Tanmaya Badapanda, Ayush Khare, M. Shahid Anwar and Nameeta Brahme	Oxygen vacancy related conduction behavior in BaZr _{0.05} Ti _{0.95} O ₃ ceramic	IOP Conf. Series: Materials Science and Engineering IOP Publishing doi:10.1088/1757-899X/798/1/012006	Vol-798	012006–1-9	2020
10	G. Nag Bhargavi , Ayush Khare, T. Badapanda, M. S. Anwar, Nameeta Brahme	Analysis of temperature and frequency dependent dielectric properties, dynamic hysteresis loop and thermal energy conversion in BaZr _{0.05} Ti _{0.95} O ₃ ceramic	Journal of Materials Science: Materials in Electronics, https://doi.org/10.1007/s10854-018-9236-4	0957-4522 (print) 1573-482X (online) Vol-29	11439–11448	(2018)
9	G. Nag Bhargavi , Ayush Khare, Tanmaya Badapanda, M. Shahid Anwar	Investigation of structural and electrical properties of Gd ³⁺ ions modified BaZr _{0.05} Ti _{0.95} O ₃ ceramic	Applied Physics A https://doi.org/10.1007/s00339-018-2162-8	0947-8396 (Print) 1432-0630 (online) Vol-124	746 1-9	2018
8	G. Nag Bhargavi , Ayush Khare, Tanmaya Badapanda, M. Shahid Anwar, Nameeta Brahme	Electrical characterizations of BaZr _{0.05} Ti _{0.95} O ₃ perovskite ceramic by impedance spectroscopy, electric modulus and conductivity	Journal of Materials Science: Materials in Electronics, https://doi.org/10.1007/s10854-017-7617-8	0957-4522 (print) 1573-482X (online) Vol-28	16956–16964.	2017
7	G. Nag Bhargavi , Ayush Khare, Tanmaya Badapanda, M. Shahid Anwar, Nameeta Brahme	An Investigation on the dielectric relaxation and conduction behavior of Europium modified BaZr _{0.05} Ti _{0.95} O ₃ ceramic	Proceedings of the National Conference on Recent Trends in Functional Materials	ISBN: 978-93-87526-07-5 (paperback) 978-93-87526-08-2 (e-version)	135-139	2017

6	G. Nag Bhargavi , Ayush Khare, Tanmaya Badapanda, Priyadarshi K. Ray, Nameeta Brahme	Influence of Eu doping on the structural, electrical and optical behavior of Barium Zirconium Titanate ceramic	Ceramics International https://doi.org/10.1016/j.ceramint.2017.10.116	ISSN-0272-8842 Volume 44, Issue 2,	1817-1825	2017
5	G.Nag Bhargavi , Ayush Khare, Namita Brahme	Structural characterization and thermoluminescence studies of UV irradiated and Eu ³⁺ activated BaZr _{0.25} Ti _{0.75} O ₃ powders	Materials Science in Semiconductor Processing https://doi.org/10.1016/j.mssp.2015.12.030	ISSN: 1369-8001 Volume 44,	38-47	2016
4	G. Nag Bhargavi , Ayush Khare, Namita Brahme	Estimation of kinetic parameters from thermoluminescence glow curves of pure and Eu ³⁺ doped barium zirconate titanate (BZT)	Optik https://doi.org/10.1016/j.ijleo.2016.10.038	ISSN: 0030-4026 Volume 129,	83-92	2017,
3	G. Nag Bhargavi and Ayush Khare	Effect of UV Irradiation on Thermoluminescence Properties of Perovskite Structured Pure and Europium Doped Barium Zirconium Titanate	International Journal of Luminescence and Applications ID: 068 http://ijlindia.org/wp-content/uploads/2015/07/Volume5/Issue1/68.pdf	(ISSN: 2277-6362) Vol. 5, No. 1,	115-117	2015.
2	G. Nag Bhargavi and Ayush Khare	Luminescence Studies of Perovskite Structured Titanates: A Review	Optics and Spectroscopy https://doi.org/10.1134/S0030400X15060156	ISSN 0030-400X, Vol. 118, No. 6	902-917	2015
1	Ayush Khare, B. Nag Bhargavi , Namrata Chauhan, Nameeta Brahme	Thermo and mechanoluminescence studies of BZT phosphor	Optik https://doi.org/10.1016/j.ijleo.2014.04.091	ISSN: 0030-4026 Volume 125, Issue 17,	4655-4658	2014

23. Books and Book chapters

S. No.	Author(s)	Title	Name of book (preferably with DOI)	page	year
--------	-----------	-------	------------------------------------	------	------

1	G. Nag Bhargavi, Tanmaya Badapanda, and Ayush Khare	Composition induced dielectric and conductivity properties of rare-earth doped barium zirconium titanate ceramic	Functional Materials from Carbon, Inorganic, and Organic Sources. https://doi.org/10.1016/B978-0-323-85788-8.00017-3	271-315	2023
2	G. Nag Bhargavi, Tanmaya Badapanda,	Nonstoichiometric perovskites and derivatives	Perovskite Metal Oxides- Synthesis, Properties, and Applications https://doi.org/10.1016/B978-0-323-99529-0.00010-2	81-118	2023

24. Presentations/ participation in National/ International seminars/conferences/ workshops

S. No.	seminars/conferences/ workshops	Organizer	Date
28	International Conference on recent trends in Science and engineering ICRTSE-2024	Dept. of Physics, Govt. VYT PG Autonomous College Durg, Chhattisgarh and IIT Bhilai	8 th -10 th Feb. 2024
27	International conference on “Advancement in Sustainable Materials for Energy and Environment”	Central Institute of Petrochemicals Engineering and Technology, Raipur	6 th -7 th Oct. 2023
26	2 nd National conference on Signal processing, Sustainable Energy Materials and Astronomy & Astrophysics (NSSEMA-2023)	School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur	16 th – 18 th Mar. 2023
25	“National Seminar on Ferroelectrics and Dielectrics (XXII NSFD - 2022)”	School of Advanced Sciences, VIT-AP University, India	17 th -19 th Dec. 2022
24	International conference on “Current trends in Advanced Materials and Their Applications for Societal Development”	Department of physics, Dr. Hari Singh Gour University, Sagar (MP), India	8-10 Mar, 2022
23	2 nd National Conference on Advanced Materials and applications (NCAMA-2020)	National Institute of Technology Raipur (CG)	28-29 Dec, 2020
22	National Conference on Advanced Materials and applications (NCAMA-2019)	National Institute of Technology Raipur (CG)	21-22 Dec, 2019
21	6 th International Conference on Luminescence and its applications (ICLA-2019)	Luminescence Society of India & SOS in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur (CG)	7 th -10 th Jan, 2019
	9 th International Science Congress (ISC-2019)	International Science Community Association, at Bhilai Institute of Technology, Durg Chhattisgarh India	8 th -9 th Dec, 2019

20	5 th International Young Scientist Congress (IYSC-2019)	International Science Community Association, at Mid-western University, Surkhet, Nepal	8 th -9 th May, 2019
19	Workshop on Research methodology	International Science Community Association, at Mid-western University, Surkhet, Nepal	8 th -9 th May, 2019
18	XX- National Seminar on Ferroelectrics & Dielectrics (NSFD-2018)	Department of pure abd applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur	14 th -16 th Dec, 2018
17	International Conference on Innovative research in Science, Management and Technology (ICIRSMT-2018)	Bilaspur University, Bilaspur & Modern technology and Management Institute (MTMI),	4 th -5 th Aug, 2018
16	16 th Chhattisgarh Young Scientists Congress-2018	Chhattisgarh council of Science and Technology & Durg University, Govt. VYT PG Autunomous College, Durg, Bhilai Institute of Technology, Durg	27 th -28 th Feb. 2018
15	A National Seminar on Advanced Research in Physics- its role in the development of Society	Department of Physics, Govt. Digvijay PG Autonomous College, Rajnandgaon (CG)	29 th Jan. 2018
14	20 th International Conference on Recent Advances in Physical Sciences and Future Challenges (CONIAPS-XX)	Faculty of Science, Osmania University, Hyderabad	14 th -16 th Jul, 2017
13	15 th Chhattisgarh Young Scientists Congress-2017	Chhattisgarh council of Science and Technology & Chhattisgarh Swami Vivekanand Technical University, Bhilai	28 th Feb. - 01 st Mar. 2017
12	One day interdisciplinary National Seminar on Energy Industry and Environment	Department of Physics, Govt. Vivekanand PG college, Manendragarh (CG)	9 th Oct 2015
11	National Seminar on Recent Trends in Materials Science	Dr. Radhabai Govt. Naveen kanya Mahavidyalaya, Raipur (CG)	6 th Aug. 2015
10	5 th International Conference on Luminescence and its applications (ICLA-2015)	Luminescence Society of india & PES University, Bengaluru	9 th -12 th Feb. 2015
9	National Workshop on Design and development of self-learning materials & e-modules for open and distance learning	Pt. Sundarlal Sharma open university Chhattisgarh, Bilaspur	25 th -27 th Feb. 2014
8	Vimarsh- National Conference	Chouksey Engineering College, Bilaspur (CG)	12 th -13 th Sep, 2013
7	Two days National workshop cum theme Meeting on Ion beam induced Materials modification & Neutron generation using 3 MV particle accelerator: Applications in Physical, Chemical and life sciences	Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)	19 th -20 th Aug, 2013
6	National Workshop on Nanoscience and Nanotechnology (NWSNT-2012)	Department of physics and Department of electronics and telecommunication engineering	12 th Mar, 2012

5	International workshop on Advanced material Science and Astrophysics	Pt. Ravishankar Shukla University, Raipur (CG) & Michigan Technological University, Houghton, USA	19 th -21 st Feb, 2012
4	XVI- National Seminar on Ferroelectrics and Dielectrics	Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)	2 nd -4 th Dec, 2010
3	National Workshop on Low energy accelerators and their applications to Research and Industry	Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)	12 th -13 th Mar, 2010
2	Xth Conference of International Academy of Physical Science (CONIAPS-X)	Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)	12 th -14 th Jan, 2008
1	National Conference on Advances in electronic Materials and devices (AEMD-07)	Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)	25 th -26 th Mar, 2007

25. Any other relevant information: -

IQAC co-ordinator- Nov. 2013-July 2016 (Dr. J P Mishra Govt. Science College, Mungeli, Chhattisgarh)
 Sep 2017- till date (Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur, Chhattisgarh)

Delivered lectures on IQAC and NAAC at various colleges like Govt. PG College Bhatapara, Shiksha Snatak College Mandhar, Govt. Naveen College Birgaon.

Member- State Level SSR Review committee, State Level Quality Assurance Cell, Dept. of Higher Education (21.07.21 till date)

Member- Board of Studies (Physics), Pt. Ravishankar Shukla University, Raipur

Member- Committee for designing course curriculum as per NEP 2020

The above-given information is true to my knowledge.

Name of the faculty

Dr. G. Nag Bhargavi