

RESUME

Mr. KULDIP VITTHAL BHONGALE

Assistant Professor in Physics

N.S. Science & Arts College, Bhadrawati

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1. Academic Record

Pursuing Ph.D On the topic “Enhancement of ionic conductivity of ceria based electrolyte for LT-SOFCs by using nano-composite approach” Under the guidance of Dr Smita Acharya at Department of Physics R.T.M.N.U Nagpur.

Examination	Name of Board/University	Year	Division	Subjects (specialization)
SET	University of Pune	2016	First	Physics
M.Sc	R. T. M. Nagpur University, Nagpur	2013	First	Materials Science (Physics)
B.Sc	R. T. M. Nagpur University, Nagpur	2011	First	Physics, Math, Chemistry
H.S.C	Maharashtra State Board	2008	First	Mar, Eng, Phy, Che, Maths, Biology
S.S.C	Maharashtra State Board	2006	First	Mar, Eng, Hin, Maths, Sci, Social Sci.

2. Working Experience

Assistant Professor

- 4 years of teaching experience on the UG level at N.S. Science and Arts College, Bhadrawati, Dist- Chandrapur
- 4 years of teaching experience on the PG level at N.S. Science and Arts College, Bhadrawati, Dist- Chandrapur

Contributory Lecturer

- Two years of teaching experience at M.P.DEO. Memorial Dharapeth Science College, Nagpur
- One year of Teaching experience at Hislop College Nagpur,
- One year of Teaching experience at Dada Ramchand Bakharu Sindhu Mahavidyalay, Nagpur
- Department of Physics, R. T. M. Nagpur University for academic year 2016-2017

3. Area of Interest

- Material Science, LT-Solid Oxide Fuel Cell

4. Research Skills

- ❖ **Materials preparation skills:** I have good experience of synthesizing composite and Co-Doped material by hydrothermal, co-precipitation, spin coating, and microwave combustion synthesis methods. I have fair knowledge about Hydrothermal synthesis.
- ❖ **Materials analysis skills:** I have well data fitting hand on structural refinement using Rietveld method through software like Full Prof. I also used unit cell determination software's like VESTA, DIMOND, and POWDER cell. Profile fitting hand on OriginLab software, Fit YK. Impedance data modeling by Z-view and Nova 1.11 software programme. X-ray photoelectron spectroscopy spectra fitting by XPSPEAK41.
- ❖ **Instrument operational skills:** Handling of complex impedance spectroscopy, Microwave furnace, UV-Visible Spectrophotometer, LCR meter, Spin coating unit etc. (Autolab + FRA Model 204), microwave synthesis assembly.

5. Paper Publish

- **Effect of Sintering Temperature on structural and Electrical Properties of Co-Doped Ceria Based Electrolyte Material for It-SOFC**
Kuldip Bhongale, Shraddha Shirbhate, and Smita Acharya,
<https://doi.org/10.1063/5.0002158>
- **Double-Dopant induced local structural changes and ionic conductivity of doped ceria system: As solid electrolytes for electrochemical devices**
Shraddha Shirbhate, Kuldip Bhongale, Ashok Yadav, and Smita Acharya,
<https://doi.org/10.1063/5.0016947>

6. Conferences, Seminars, Workshops, Symposium, Orientation, Lecture series, FDP, Webinar & Short Term Programme Participated

Sr.No	Name of Programme	Date	Types
1	"One Week International Workshop on Research and Methodology"(WORAM-2020) Organized by Edoxia Research Centre Guwahati, India	05/04/20 To 11/04/20	Workshop
2	The International Workshop on"UGC-NAAC Revised Accreditation Process (IWUGC-2020) Organised by the Research Foundation of India	06-05-2020	Workshop
3	Three days National level E-Workshop on "PHYSICS EXPERIMENTS THROUGH VIRTUAL LAB" organized by the Department of Physics, Adayalampattu Phase II Campus, Chennai	08/06/20 To 10/06/20	Workshop
4	Online Workshop on"Assessment And Accredation in NAAC" Organized by Dhote Bandhu Science College Gondia Under PARAMARSH UGC New Delhi	15/06/20	Workshop
5	Two Week Online Workshop on "Comprehensive e-Learning to e-Training guide for Administrative Work" Organized by Ramanujan College Delhi.(MHRD.PMMMNMTT)	25/05/20 To 05/06/20	Workshop
6	One Day Online Workshop on " Designing and Drafting of Policy Document" Organized by IQAC of KES Shroff College of Arts And Commerce	08-04-2020	Workshop
7	Two-day National Workshop on "Formulating Virtual Events- A Pragmatic Approach" Organized by Dr. M.G.R. Educational & Research Institute Chennai.	17/08/20 To 18/08/20	Workshop
8	Two-Day Online Workshop on "Astronomy and Astrophysics" organized by K.R.T. Arts, B.H. Commerce and A.M. Science (K.T.H.M.) College, Nashik	20/08/20 To 21/08/20	Workshop
9	Short Term Course On "Learning Physics Through Simple Experiment" Organized by IIT Kanpur	02/04/20 To 10/06/20	Short Term Course
10	Short Term Course On "Nanomaterial Synthesis & Characterization Technique"(NSCT-2020),Organized by Shri Shivaji Science College Amrawati.	27/07/20 To 15/08/20	Short Term Course
11	Short Term Course On "Particle Physics an Introduction" Organized by University of Geneva, Geneva	03/10/2020	Short Term Course
12	Short Term Course On "Introduction to Molecular Spectroscopy" Organized by University of Machester	22/10/2020	Short Term Course
13	Short Term Course On "Method of Surface Analysis" Organized by Department of Plasma Physics Mascow Engineering Physics Institute, Nation Research Physics Institute	16/09/2020	Short Term Course
14	One Day National e-Seminar on "Recent Technological Trends in Electronics" Organized by Department of Electronics and Internal Quality Assurance Cell (IQAC) of Krishna Mahavidyalaya, Rethare BK, Karad, Satara, Maharashtra	27/08/20	Seminar

15	National Seminar on Ferroelectric and Dielectric (XXII-NSFD-2022)	17/12/2022 to 19/12/2022	Seminar
16	The 21 th National Seminar on Ferroelectrics and Dielectrics (XXI NSFD-2021)	10/01/2021 to 13/01/2021	Seminar
17	National Symposium on Functional Material for Sustainable Development Organized by NASI, Nagpur Chapter	10/10/2022 to 12/10/2022	Symposium
18	64 th DAE Solid State Physics Symposium ,Jodhpur (DAE-SSPS-2019)	18/12/2019 to 22/12/2019	Symposium
19	Orientation programme on 'Administrative work for Higher educational system' organized by Delhi University By PMMMT scheme	28/09/2020 to 27/10/2020	Orientation
20	"Online Lecture Series in Physics", organised by Department of Physics,Digboi College, in association with IQAC, Digboi College, Digboi, Assam,	20/07/20 To 27/07/20	Lecture series
21	UGC stride online lecture series program organized by department of physics Shivaji University Kolhapur	07/04/2021 to 10/04/2021	Lecture series
22	One week Raman Lecture Series organised by Shri Muktanand College Gangapur, Aurangabad,Maharashtra	25/05/2021 To 31/05/2021	Lecture series
23	Faculty Development Programme (Ten Days) On "Effective Ways To Develop E-content For Teaching-Learning" conducted by K.R.T. Arts, B.H. Commerce and A.M. Science (K.T.H.M.) College, Nashik in association with Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune	21/05/20 To 30/05/20	FDP
24	One Week Faculty Development Programme on"Open Source Tools for Research" Organized by Ramanujan College Delhi.(MHRD.PMMMNTT)	08/06/20 To 14/06/20	FDP
25	National Level Five Day faculty development program on "Scilab"" in Association With IIT-Bombay (Remote Learning Through Spoken Tutorial)," By St.Peter Engineering College Dullapally,Maysamaguda Hyderabad(Autonomous)	15/06/20 To 21/06/20	FDP
26	Two Weeks Faculty Development Programme on "ADVANCED CONCEPTS FOR DEVELOPING MOOCS"Organized by Ramanujan College Delhi.(MHRD.PMMMNTT)	02/07/20 To 17/07/20	FDP
27	FDP on VIRTUAL LAB IN PHYSICS organized by Department of Physics, National College, Basavanagudi, Bengaluru in association with Department of Physics, B.N.M. Institute of Technology, Bengaluru and Udayabhanu Kala Sangha	03/02/2021 To 07/02/2021	FDP
28	National level FDP programme on research methodology organized by kamla nehru mahavidyalay nagpur	26/04/2021 to 01/05/2021	FDP
29	ONE DAY NATIONAL WEBINAR ON EFFECTIVE WAYS TO DEVELOP E-CONTENT SMT. DEVKIBA MOHANSINHI CHAUHAN COLLEGE OF COMMERCE AND SCIENCE	27/05/2020	Webinar
30	Webinar on Secrete to get quickly publish as ascientific authors & Hastle your P.hD Research Writing Oranized by Aristrocat Research.Com aUnit of Aristrocrate IT Solution	29/05/2020	Webinar
31	Recent trends in modern physics Organized by shree Vaishnav Vidyapeeth Vishwavidyalay,Indore	06-08-2020	Webinar

32	International Webinar series on opportunities to develop research carrier in basic sciences organised by Department of Physics and IQAC , Balwant College , Vita	29/05/2020	Webinar
33	One Day International Webinar on “Nanomaterials for Smart and Sustainable Energy Solutions” organized by Department of Physics in association with Internal Quality Assurance Cell, RAYAT SHIKSHAN SANSTHA 'SMAHATMA PHULE ARTS, SCIENCE AND COMMERCE COLLEGE, PANVEL. DISTRICT- RAIGAD.	17/06/2020	Webinar
34	Patents & Intellectual Property Rights Organized by Department of Civil Engineering, RMD Sinhgad School of Engineering, Warje, Pune.	16/06/20 To 16/06/20	Webinar
35	Physics Webinar "Extension Of Modern Periodic Table Towards Superheavy Metals - Indian Perspective" Smt Danamma Channabasaviah College Of Arts Commerce Science and Management Studies Kodiramasandra ,by-Pass,Kolar	19/06/2020	Webinar
36	International webinar on "Alternative Assessment And Evaluation in Teacher Education" Organized by Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya Wardha, Maharashtra Under PMMMNMTT	07-04-2020	Webinar
37	“Neutrinos: The Nobel Connection” by Prof. Srubabati Goswami Organized by Physics Society department of physics NITJ	24/07/2020	Webinar
38	National Webinar on “SOLAR TECHNOLOGY” organized by Department of Physics, Nevjabai Hitkarini College, Bramhapuri, Dist. Chandrapur (M.S.)	20/08/2020	Webinar
39	International Webinar on Present scenario of Material Science Organized by Nilkanthrao Shinde Science and arts College Bhadrawati, in Association with Luminescence Society of India	21/08/2020 to 22/08/2020	Webinar
40	National Webinar on Awareness programme on Organ Donor Organized by D.B.F Dayanand College of Arts and Science ,Solapur	29/08/2020	Webinar
41	National webinar on frontiers in Basic Physics & Application Organized by Department of Physics Bharnagar College Sorbhog , Barpeta	31/08/2020	Webinar
42	Webinar on Virtual Labs: Effective Tool for Teaching and Learning jointly organized by Vlabs Nodal Centre and CCoEW, Nagpur	30/01/2021	Webinar
43	National Webinar on 'NAAC Assessment and Accreditation Process' organized by IQAC, Gondwana University, Gadchiroli, Maharashtra, India	03-03-2021	Webinar
44	National Level Webinar on Nanotechnology Organized by Anand Niketan College ,warora	12/07/2021 To 14/07/2021	Webinar
45	one day National Level Webinar on “RESEARCH PLANNING : PROPOSAL, PROJECT & IMPLEMENTATION FOR CAREER ADVANCEMENT” organized by S.N.Sinha College, Warisaliganj & IARI	27/05/2020	Webinar
46	International Webinar series on opportunities to develop research carrier in basic sciences organised by Department of Physics and IQAC , Balwant College , Vita	29/05/2020	Webinar
47	"Third International Conference on condensed Matter & Applied Physics (ICC-2019), Organized by Gov. Engineering college ,Bikaner,Rajasthan	14/10/19 To 15/10/19	Conference
48	National Conference on "Recent Trends in	02-07-2020	Conference

	Mathematical,Physical,Chemical,Library & Life Sciences"Organized by N.S.Science and Arts college Bhadrawati		
49	5 days Online "International Conference on Innovative Challenges in Multidisciplinary Research and Practices" organized by Hindusthan College of Arts and Science, Coimbatore, Tamilnadu	15/06/20 To 19/06/20	Conference
50	"Role of Nanoparticles & Chemistry For Sustainable Development" Organized by Department of Chemistry,Nilkanthrao Shinde Science and Arts College, Bhadrawati Dist - Chandrapur (M. S.)	01-07-2020	Conference
51	"International Conference on Recents Treads in advanced Material" Jointly Organized by N.H College Brahmpuri,Lat B.S Arts ,Prof N.G Science &A.G Commerce Collee Sakharkheda, Shri Sant Gadge Maharaj Mhavidyalay Higna Nagpur	06-07-2020	Conference
52	"International Conference on Recents Treads in Material Science" Organized by Shree Shivaji Arts ,Commrce & Science college Rajura,Chadrapur,Maharashtra	08-10-2020	Conference
53	International E-conference on Synthesis,Characterization & Applications of Emerging Materials with Special Reference to Sustainable Technologies" Organized by Department of Applied Physics, JabalpurEngineering College, Jabalpur, (M.P.), India	22/02/2021 to 24/02/2021	Conference
54	International Conference on "Digitalisation of Library" collaborativelyorganised by Chintamani College of Commerce, Pombhurna and Chintamani Mahavidyalaya, Pombhurna, District Chandrapur, MS, India	20/05/2021	Conference
55	National online conference on "EMERGING TRENDS IN SCIENCE AND TECHNOLOGY" (NCETST-2021) organized by ARVINDBABU DESHMUKH MAHAVIDYALAYA Bharsingi, Tq.-Narkhed, Dist.-Nagpur	06-10-2021	Conference

- Participated in **60 hours Completed Pre Ph.D. course work** from Human Resource Development, Centre (HRDC), Nagpur (6-16 May 2019).
- **Chemistry for High Efficiency Material, Nagpur (CHEM-2019)**(26-27 March 2019)
- **Ramanujan Conference 2018-2019,Nagpur** (25 March 2019)
- **National School on Computer-Assisted Spectroscopic Data Interpretation Techniques and Material Science, Nagpur (NSCASDIT-2019)** (7-11 January 2019).
- **Lecture series on Numerical Methods and Computer Programming, Indore (M.P)** (NMCP-2018) (6-10 August 2018)
- **4thIndian youth science congress-2012, Nagpur** (9-11 November 2012)
- **National seminar on materials preparation and characterization-2012,Nagpur** (27 February 2012)
- **University Level Workshop of College Student Council Secretaries** (3 December 2011)

7. Awards and Recognition

- **'Young Researcher Award'** in In International Conference on Multidisciplinary Innovative Research and Development 2023 (ICMIRD-2023) by Sidvi foundation (1-2 july 2023)
- **Second prize** for Presentation in Vidarbha University Physics University Physics Teacher Association (VUPTA-2013)
- **Second prize** for Poster Presentation in Chemistry for High Efficiency Material, Nagpur (CHEM-2019)
- **Consolation Prize** for Presentation in Ramanujan Conference 2018-2019, Nagpur

8. Membership of Professional/ Non Professional Bodies

- Life Member : Nagpur University Young Teachers Association
- Life Member : Neutron Scattering Society of India (NSSI)
- Life Member : Society for Technologically Advanced Material of India
- Life Member : International Institute of Organized Research (I2OR)

9. Personal Details

- **Permanent Address:-** Suryamandir Ward, Just Behind Lokmanya School, Bhadrawati, Dist- Chandrapur
- **Mobile No:-**9028293376
- **Nationality:-** INDIAN
- **Language Proficiency:-** Marathi, Hindi, English,
- **Date of Birth:-** 09 October 1990