

BIO-DATA

1. Self Details:

Name	DR. LATA VIJAY EKHANDE (First Name) (Middle Name) (Last Name)
Designation	Assistant Professor in Physics (Selection Grade)
E-mail Address	lvekhande.aps@gcoeara.ac.in
Contact No.	02133-230582

2. Qualification Details:

Certificate/ Degree	Board/ University	Specialization	Passing Year	Class/Grade
B.Sc	PUNE University	PHYSICS	1993	I st Class with distinction
M.Sc	PUNE University	Chemical Physics, Energy Studies	1995	I st Class
B.Ed.	PUNE University	Science and Maths Methods	2000	I st Class with distinction
Ph. D	S. P. PUNE University	Physics	2014	Topic : Magnetic and structural behavior of sol-gel synthesised Mn, Fe and Co doped ZnO

3. Experience in Technical Education Department:

Institute	Department	Designation	Graduate/Post graduate level	Year
Govt. Polytechnique, Pune	Physics Department	Visiting Lecturer	Diploma	1996
Govt. College of Engineering, Pune	Applied Science	Visiting Lecturer	UG	1997
Camp Education Society's Senior Science College, Pune	Physics Department	Lecturer in Physics	UG	2000
Govt. College of Engineering, Pune	Physics	Assistant Professor in Physics	UG	2003
Govt. College of Engineering, Karad	Physics	Assistant Professor in Physics	UG	2021
Govt. College of Engineering and Research, Avasari Kh. Pune	Physics	Assistant Professor in Physics	UG	TODATE

5. Training attended:

Sr.No.	Training Name	From Date	To Date	Organization
1	Surface Processing of Material (STTP)	22/10/2003	03/01/2004	ISTE approved, conducted by Dept of Metallurgy, C.O.E.Pune
2	Development Of Basic Teaching Competencies(MHE-1/04)	14/06/2004	25/06/2004	Extn Centre (Pune) of NITTR, Bhopal
3	A refresher course for teachers in Applied Sciences and Mathematics departments of the Engg. Colleges)	27/06/2005	01/07/2005	Smt. Kashibai Navale college of Engg. Pune.
4	Enhancing Teaching Excellence and Integration of Technologies in Class Room Teaching ETEC14	16 /09/2005	18/09/2005	College of Engineering, Pune
5	Enhancement of Administrative and Managerial skills (EAMS-05) Batch II	06/02/2006	08/02/2006	College of Engineering, Pune
6	Recent Trends in Analytical Instrumentation [TEQIP Sponsored]	12/06/2006	23/06/2006	College of Engineering, Pune
7	Workshop on Fluency in English May 16-18 May 2006.	16/05/2006	18/05/2006	College of Engineering, Pune
8	Light Sources- Control and Applications(STTP) [Funded through FDP Cell Of TEQIP] ISTE approved-AICTE sponsored	10/12/2007	14/12/2007	M.A.E.E.R's MIT College of Engineering, Pune-38
9	Introduction to Research Methodology [ISTE approved]	25/06/2012	04/07/2012	IIT Bombay conducted under the National Mission on Education through ICT(MHRD, Govt. of India)
10	Nanomaterials and Nanocomposites [TEQIP Sponsored FDP]	03/12/2012	07/12/2012	Dept of Metallurgy Engg.,C.O.E.Pune
11	Innovative Methods of Science Teaching and Assessment	25/11/ 2013	29/11/ 2013	Extn Centre (Pune) of NITTR, Bhopal
12	Corrosion And Surface Engineering	03/01/ 2014	08/01/ 2014	TEQIP sponsored STTP and conducted by Dept. of Metallurgy Engg.,C.O.E.Pune
13	Effective English for Engineering experts	12/05/2014	16/05/2014	TEQIP (Phase-II) sponsored Faculty development programme
14	Cyber security [ISTE approved workshop]	10/07/2014	20/07/2014	IIT Bombay conducted [ISTE approved workshop] and held under the National Mission on Education through ICT (MHRD
15	Inculcating Universal Human Values in Technical Education	21/03/2022	25/03/2022	AICTE
16	NEP 2 - Multidisciplinary Education and Research	10/06/2024	14/06/2024	NITTR, Extn. Pune

17	NEP 2020 syllabus implementation Workshop on “ Engineering Physics (2024 Pattern) ”	12/08/2024	Marathwada Mitra Mandal’s Institute of Technology, Lohgaon, Pune
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6. Conferences/workshops and Publications:

Sr.No.	Conference/Workshop/Seminars description	Place of Conference	Month & Year	Activity
1	National Conference-Raman Memorial Conference	Department of Physics, University of Pune, Pune-411007	Feb-2009	Oral Presentation
2	National Workshop on X-Ray Diffraction and techniques	Department of Physics, Saurashtra University, Rajkot, Gujarat.	March-2010	Participation
3	IEEE NANO 2010, 10 th International Conference on Nanotechnology, Joint Symposium with NANO KOREA 2010	Kintex, Seoul, South Korea	August-2010	Oral Presentation
4	A National Conference for Women	College of Engineering, Pune and SHAKTI- A National Movement for Women	2010	Participated as Organising Committee Member
5	National Conference-Raman Memorial Conference	Department of Physics, University of Pune, Pune-411007	Feb-2011	Participation
6	1 st International Conference on Functional Materials for Defence [ICFMD-2012]	Defence Institute of Advanced Technology (DU) Girinagar, Pune.	May-2012	Participation
7	International Conference on Perspective of Computer Confluence with Sciences" (ICPCCS2012)	Nowrosjee Wadia College, Pune	10-12, December-2012	Poster presentation
9	National Conference on ‘Functional Nanomaterials: Synthesis, Characterization and Applications’	Department of Physics, University of Pune, Pune-411007	31 st - 2 nd Jan, 2013	Poster presentation and paper communicated to National journal
10	International Workshop on ‘Nanotechnology and Advanced Functional Materials (NTAFM 2013)’	National Chemical Laboratory, Pune, India	24 and 25 th July, 2013	Poster presentation
11	National Conference on Materials for Electronic Applications (NCMEA 2014)	CoE, Pune	30 & 31 Jan and 1Feb 2014	Oral presentation
12	IEEE- International Conference on Energy Systems and Applications (ICESA-2015)	Dr. D. Y. Patil Institute of Engineering and Technology, Pimpre, Pune – 411018	30 th October, 2015 to 1 st Nov.,2015	Oral presentation and accepted paper, published in IEEE conference proceedings

13	103 rd The Indian Science Congress	University of Mysore, Mysore, Karnataka	3 rd to 7 th January, 2016	Poster presentation
14	104 th The Indian Science Congress	University of Mysore, Mysore, Karnataka	3 rd to 7 th January, 2017	Poster presentation
15	Study of Nanomaterials and Scientific Development in 21 st Century (ICSNSDC)	Jiwaji University, Madhypradesh	3 rd to 5 th November, 2017	Oral Presentation and evaluated the poster session as an expert in the team of three members
16	International Symposium on Geotechnics for Transportation Infrastructure (ISGTI-2018)	Indian Institute of Technology, New Delhi	7 th – 8 th April, 2018	Oral Presentation
17	National Conference on Advances in Science, Engineering & Technology for Sustainable Development	Government College of Engineering Karad	20 th -21 st May 2023	1. Reviewer for submitted research papers 2. Co-chair in Oral Presentations

7. Research Publications:

- [1] 'Room temperature ferromagnetic behavior in the nanocrystals of Fe doped ZnO synthesized by soft chemical route'

L. V. Bhandarkar (Ekhande)

Accepted (January 2018) in an international journal – 'Material Science - Poland' ISSN 2083-1331, e-ISSN 2083-134X

- [2] 'Influence of structural evolution on the magnetic behavior of the nanocrystals of Fe- doped ZnO synthesized by soft chemical route',

L V Bhandarkar (Ekhande)

Applied Physics A, Issue 10, volume 123:1-11 (2017) 627 ,
DOI 10.1007/s00339- 017-1236-3. Published on 12th September, 2017
ISSN: 0947-8396 (Print) 1432-0630 (Online)

- [4] 'Effect of annealing on the structural and magnetic properties of sol-gel synthesized Co doped ZnO'

L V Bhandarkar (Ekhande) and S I Patil

IEEE Conference Publications, (2015) Page – 543-545.
DOI: 10.1109/ICESA.2015.7503408

[5] 'Structural and Magnetic Behavior of Mn Doped ZnO Synthesized By Soft Chemical Route'.

L V Bhandarkar (Ekhande)

International Journal of Innovative Research in Science, Engineering and Technology
ISSN: 2319-8753, Vol. 3, Issue 11, November 2014.

[6] 'Role of defects in enhancing room temperature ferromagnetism of Mn doped ZnO nanoparticles'

L V Ekhande, V V Dhas, Y D Kolekar, K Ghosh, S K Date, and S I Patil
physica status solidi (b), Volume 250, Issue 7, (1389–1397) 2013.

[7] 'Absence of room temperature ferromagnetism in nanocrystalline Co doped ZnO synthesized by soft chemical route' communicated in physica status solidi B

L. V. Ekhande and S. I. Patil

[7] 'Use of Ground Penetrating Radar (GPR) as an effective tool in assessing pavements' authored by R. Salvi. A. Ramdasi, Y. A. Kolekar & **L.V. Bhandarkar** had been selected for

✓ **Oral presentation** in International Symposium on Geotechnics for Transportation Infrastructure (ISGTI-2018)

✓ had been selected for "**Young Geotechnical Engineer Award : Runner-Up**" sponsored by Centre for Geomechanics and Railway Engineering, University of Wollongong, Australia and the Organizing Committee of ISGTI-2018.

✓ **Accepted** in Journal publication in Special Issue on "GEOTECHNICS FOR TRANSPORTATION INFRASTRUCTURE" for Bridge and Structural Engineering Journal (ING-IABSE).

8. Research Experience :

I awarded for Ph.D. degree from Dept. of Physic, S. P. University of Pune, for the topic: "Magnetic and structural behavior of sol-gel synthesised Mn, Fe and Co doped ZnO". under the guidance of Prof. S. I. Patil, Head, Department of Physics, S. P. Pune University, Pune.

- Over ten years research experience, actively engaged in the research work.
- Published papers in various scientific journals of national and international repute.

- Presented research papers in various International & national seminars & conferences annually.
- Worked as Session chair for Poster and Oral Presentations in National conferences.

Research Work Related Skills :

- Synthesis of nanoparticles by different synthesis routes like sol-gel and chemical.
- Laboratory Procedures – Processing, synthesizing and sintering the powder samples at different temperature.
- General learning ability to analyze the physico-chemical characters.
- Methodical interest in working with scientific equipments and innovative interest in analyzing data.
- Interest in material science, magnetism and nanotechnology.

9. Innovation /Extention work :

- Worked as ‘Vice Chairman’ in the DTE conducted centralized First Year Engineering Admission Process (2017-18) at Govt. College of Engineering, Pune.
- Delivered talk in AICTE-ISTE sponsored STTP conducted for Applied Science teachers
- Worked as organizer in AICTE-ISTE sponsored STTP conducted on Applications of Geophysics in Geo-technical Engineering
- Worked as a ‘Core committee member’ in the F.Y. Engineering Admission Process (2016-17)
- Worked as an ‘Assistant Liasoning Officer (ADLO)’ for Pune District region for MHCET-2017 and MHCET- 2018 to 2020 Examination.
- Worked as a ‘center incharge’ for MBA entrance examination conducted by DTE Mumbai.
- Worked ‘Departmental TEQIP co-ordinator’ for equipment purchase through TEQIP phase – I at Govt. College of Engineering, Pune.
- Worked as ‘Departmental co-ordinator of Examination’ at COE Pune
- Worked as ‘Faculty Adviser’, ‘Web site incharge’, ‘Lab incharge’,
- Worked as an Examiner, paper setter, and moderator at various University Examinations.

- Contribution to the National Service Scheme (NSS) & related social works.
- Worked as admission committee member at Govt. College of Engineering, Pune.
- Successfully organizing committee member in various Cultural Programs of our college unit.
- Worked as Head, Department of Physics and First Year Coordinator at Govt. College of Engineering, Karad
- Reviewer research papers submitted for National Conference at Govt. College of Engineering, Karad
- Co-Chair for Oral Presentations in National Conference at Govt. College of Engineering, Karad.
- Member Secretary for F. Y. B. Tech Board of Studies at Govt. College of Engineering, Karad.
- Member, Board of Studies, KIT's College of Engineering, Kolhapur