

STAFF PROFILE

2.1 Teacher and their profile

BIODATA



NAME	DR. RAGHAVENDRA JAGDISH TOPARE
OFFICE ADDRESS	Professor and Head, Department of Physics Yogeshwari Mahavidyalaya Ambajogai
CORRESPONDENCE ADDRESS	Madhupriya, Flat No 202, Balwant Apartment, Ram Nagar, Khardekar Stop, AUSA Road, Latur 413512
PHONE NO.	9423076691, 9284213626
E-MAIL ADDRESS	rjtopare@gmail.com
DATE OF BIRTH	15-04-1970
CASTE	OPEN
SEX	Male
MARTIAL STATUS	Married
NATIONALITY	Indian
LANGUAGES KNOWN	English, Hindi and Marathi

EDUCATIONAL QUALIFICATION

- Ph. D.** Topic-Physical properties of high T_c Cuprate superconductors. Degree Awarded by Dr.B.A.M. University Aurangabad (1995).
- M. Sc.** Physics (66.5%), Department of Physics, Marathwada University, Aurangabad . (1991)
- B. Sc.** With Physics, Mathematics, Electronics (77.8%), from Rajarshi Shahu College, Latur (1989)

RESEARCH EXPERIENCE: 21 Years

TEACHING EXPERIENCE: 28 Years

DETAILS OF TEACHING AND RESARCH EXPERIENCE

Since 19.12.2007 till to date in Yogeshwari Mahavidyalaya, Ambajogai

Since Oct 1997 to 18.12.2007 in Purnamal Lahoti Government Polytechnic Latur

Since Aug 95 to June 1997 in School of Physical Sciences, S.R.T.M. University, Nanded

Since June 1991 to Aug 1995 Project Assistant/ Research Scholar in Physics Department DrBAMU

COMPUTER SKILLS

1. Operating system: Windows
2. Other Expertise in handling Internet resources related with Physics, fair Knowledge of formatting and installation of software and website builder and launcher.

Department of **Physics**

Improvement of Professional Competence

1. Attended faculty development workshop on revised NAAC Methodology for the Principals/IQAC coordinators of affiliated colleges organized by RUSA Maharashtra State at Dr BAMU Aurangabad during 11 to 13 Feb **2019**.
2. Attended one day regional workshop on Adoption, Promotion and Production of MOOC at Gujarat Forensic Science University, Gandhinagar, Gujarat on 12th October **2018**.
3. Attended a self-financed faculty development programme on ICT as a tool in teaching Methodology at T.C. College Baramati approved by MHRD, SPPU, Pune during 16.07.2018 to 22.07. **2018**
4. Attended & presented poster in an international workshop on Research Based Pedagogical Technique (RBPT_1) at Sacred Heart College, Kochi, Kerala during 11 to 14 Oct **2017**.
5. A Faculty Development Programme at Infosys, Pune from 12.07.2017 to 20.07. **2017**.
6. A refresher course in Physics entitled "Quantum Mechanics & Nuclear Physics" at Dayanand Science College, Latur organized by Academy of Sciences from 15.04.2016 to 30.04. **2016**.
7. A one week programme on "Physics with homemade equipment and innovative experiments" at IUC, New Delhi.
8. A refresher course in Physics at Academic Staff College, Dr. BAMU, Aurangabad from 05.03.2012 to 27.03. **2012**.
9. An Orientation Course at Academic Staff College, Dr. BAMU, Aurangabad from 02.03.2011 to 30.03. **2011**.
10. Workshop on MATLAB and its applications organized by P.L. Government Polytechnic, Latur from 15.04.2005 to 16.04. **2005**.
11. An orientation programme in Communication Skills Organised by TTTI, Bhopal at Government Polytechnic, Aurangabad from 1.08.2001 to 03.08. **2001**.
12. Refresher Course in Astronomy and Astrophysics for College and University teachers at IUCAA, Pune from 14 May 1997 to 3 June **1997**.
13. Winter School on "Gamma ray Astronomy" organized by TIFR, Mumbai and IUCAA, Pune at High Energy Gamma ray Observatory, Pachmarhi during 14 to 18 Nov **1996**.
14. Workshop on "Instrumentation and Experimental techniques" conducted by Inter-University Consortium, Indore from 04.10.1993 to 22.10. **1993**

Publications / Poster Presentations in Peer Journals / Conferences

1. Published **23 papers** in renowned scientific journals. (List Enclosed).
2. Prepared Notes on Electrodynamics for B.Sc. Students of Dr. B. A. M. University, Aurangabad.
3. Prepared Notes on Atomic and Molecular Physics for B.Sc. Students of Dr. B. A. M. University, Aurangabad.
4. Prepared Notes on Mechanics & Properties of matter for B.Sc. Students of Dr. B. A. M. University, Aurangabad.
5. Presented **10 papers** in national/international conferences.
6. Attended **54 Conferences** Zonal/National/International Level.

RESEARCH AREA:

1. Material Science
2. Thin Films
3. Scientific Computing

RESEARCH CONTRIBUTION:

1) RESEARCH GUIDE

Recognized Ph.D. supervisor in Physics, Dr. B. A. M. University, Auranagabad and Swami Ramanand Teerth Marathwada University, Nanded. Two research students are working for their Ph.D. programme.

REFEREE ACTIVITY

1. Worked as referee for the Ph.D. of research Student at Saint Gadge Baba University, Amravati.
2. Worked as referee for the "Avishkar Competition" at COEA, Ambajogai
3. Worked as Examiner at National Children's Science Congress.
4. Worked as Examiner for the Higher Secondary Teacher's State level Science exhibition competition organized by *Rajya Vigyan Sanstha*, Ravi Nagar, Nagpur.

Ph. D. working student (Registered)

Sr. No.	Name of the student registered under his/her guidance	Registered M.Phil ./ Ph.D.	Date of registration	Year of award of degree	Branch of Brief Title of Research	Remarks
1)	Shri: Nagayya Chandrashekhar Raghaji	Ph. D.	July 2014		Synthesis and characterization of non-volatile memory materials	Registration Confirmed
2)	Shri: Kailash Chandrakant Shinde	Ph. D.	July 2021		Synthesis and characterization of semiconductor thin films by chemical route for photovoltaic applications	Registration Confirmed

Administrative Experience

- 1) Head Department of Physics **Since 2019 to till date.**
- 2) Chief Superintendent of examination, Dr. B. A. M. University during the year 2012- 2015.
- 3) Under Study of examination, Dr. B. A. M. University during the year 2009-2012.
- 4) Cultural and Gathering incharge during the academic year 2014-15.

Organized

1. Organized an online lecture on “Discussion on Solar Eclipse” of Prof.M.K.Patil (Director, School of Physical Sciences, SRTMU, Nanded) on 21 June 2020.
2. Organized online national webinar on “Nanotechnology and its applications in different fields” of Prof.E.U.Masumdar (Principal,Azad Mahavidyalaya,Ausa) on 17th August 2020.

Book Published

A text book on Applied Physics for first year Engineering (Total three editions) Published by Nikita Publications, Latur

RESEARCH PAPERS PUBLISHED IN JOURNALS

2022

1. Phase transformation, morphology, DC electrical resistivity and dielectric properties investigation of properties of Manganise doped Barium Titanic nanoparticles.
S.P.More,S.A.Jadhav, S.R.Patade,S.B.Gopale, **R.J.Topare** and K.M.Jadhav
Journal of Crystal Growth,585, 126588, (2022)
2. Fabrication of FeSe thin films deposited by successive ionic layer adsorption and reaction method.
K.C. Shinde, **R.J. Topare** and Y.S. Sakhare
Recent innovation in Science and Technology, Special issue 109,323-324,(2022)
3. MgSe Thin films deposited by successive ionic layer adsorption and reaction method.
K.C.Shinde, **R.J.Topare** and Y.S.Sakhare
Recent Advances in Material Science and Nanotechnology , Vol.9 (13),398-401,(2022)
4. Effect of molarity on PbS thin films by CBD technique.
A.B.Deshmukh and **R.J.Topare**
Journal of Advnces in Applied Science and Technology, Vol. 8, (1), 30-32 ,(2022)

2019

1. Role of IPR in academics.
N.K.Sahuji and **R.J.Topare**
Pune research times, Special Edition on 14.02.2019.

Before 2016

1. The review various synthesis methods of barium titanate with enhanced dielectric properties.
Smita More and **R.J.Topare**
American Institute of Physics proceedings of International Conference on Condensed Matter and Applied Physics (ICC-2015),1728, 020560 (2016).
2. Interaction of Laser radiation with biological tissue.
H.I.Awate, B.Datta, R.V.Kathare and **R.J.Topare**
Presented at National Conference at Adarsh Mahavidyalaya, Omerga during 27-28 Jan 2015
3. The microscopy characterization techniques for nanomaterials. R.V.Kathare, H.I.Awate and **R.J.Topare**
Journal of Advances in Applied Sciences and Technology-Material Science(Special Issue), Vol.1, Issue 2, 156-158 ISSN No. 2393-8188
4. A brief review of some substituted dielectric materials.
R.J.Topare, R.V.Kathare, N.K.Sahuji and H.I.Awate
International Journal of Advanced research in basic and Applied Sciences, Vol.1, Issue 1, (December 2014) 11 ISSN No.2394-4072
5. Simulation of Laplace transformations using Python.
Gajanan Dhanorkar, Pramod Disale, Nirmal Sahuji & **Raghavendra Topare**
SciPy -2013 @ IIT Mumbai 13-15 Dec 2013.
6. A Brief review of laboratory teaching methods in Physics.
S.D.Ghan,V.B.Kawade,R.V.Kathare and **R.J.Topare** Presented at *NSITMP-2013 (ISBN 978-81-926750-0-9)*
7. Are the only innovative methods of teaching Physics enough to motivate the students?
H I Awate, B Datta and **R J Topare**
Presented at NSITMP-2013 (ISBN 978-81-926750-0-9)
8. Innovative learning approach through mind map.N.K.Sahuji and **R.J. Topare**
Presented at Shimla Conference (2011)
9. Preparation of YBCO superconducting thin film by laser ablation method.
N. K .Sahuji, **R. J. Topare**, M. N. Sarnaik and S.S.Shah.
Proceeding of NSSTTF (2004)
10. Re-engineering of Engineering education.
R.J.Topare, N.K.Sahuji and S.S.Shah *Proceedings of ISTE conference (1998)*
11. Relaxation in high T_c superconductors Y₁Ba₂Cu₃O_{7-x}.
K.Ganesh, **R.J.Topare**, N. K. Sahuji , S.S. Shah and P.Venugopal Reddy
Physica C, 102 (1997) ISSN No. 0921-4534, Impact factor : 0.718
12. Elastic behaviour of Ca doped Y-124 high temperature superconductors. K.Ganesh, **R.J.Topare**, N. K. Sahuji , S.S. Shah and P.Venugopal Reddy
Physica C, 274 (issue 3), (1997) 342.
13. Elastic behaviour of some YBaCuO high T_c superconducting materials with various oxygen concentrations.
K.Ganesh, **R.J.Topare**, S.S. Shah and P.Venugopal Reddy.
Journal of Alloys and Compounds, 230 (1995) 23.
ISSN No. 0925-8388, Impact factor : 2.39, Citations: 4

14. Elastic anomalies in Bi-Pb (2223)/Ag superconducting composite materials. **R.J.Topare**, K.Ganesh, N.K.Sahuji, S.S.Shah and P.Venugopal Reddy
Physica C, 253 (1995) 89. ISSN No.0921-4534
15. The role of Ag₂O addition on the superconducting properties of Y₁Ba₂Cu₄O₈ compound.
R. J. Topare, N. K. Sahuji, and S. S. Shah
Solid State Ionic Materials, World Scientific Co. Singapore (1994) 343.
16. On the preparation of superconducting wires.
R. J. Topare, N. K. Sahuji, G. B. Hadole, A. D. Chinchure and S. S. Shah
Indian journal of Cryogenics, 18, (1993) 68. ISSN No. 0379-0479
17. Effect of Ag addition on the superconducting properties of YBCO Superconductor.
R. J. Topare, N. K. Sahuji, G. B. Hadole, and S. S. Shah
Indian journal of Cryogenics, 18, (1993) 87. ISSN No. 0379-0479
18. Studies of Y₁Ba₂Cu₃O_{7- γ} compound.
N. K. Sahuji, G. B. Hadole, **R. J. Topare** and S. S. Shah
Journal of pure and applied Physics, 4 (5), (1992), 231.
ISSN No.0019556

Place: Ambajogai

Signature

Dr. R.J.Topare