

Bhushan B Balpande,

M. Sc. (Maths), SET, Ph.D. Pursuing

✉ bhushanbalpande87@gmail.com, bhushanbalpande@rediffmail.com
Mob. 9860499820, 7768989020



Employment History

2010	■ Lecturer , Dept. of Mathematics, Sai Polytechnic, Kinhi (Jawade), Tal: Ralegaon, Distt: Yavatmal from 05/08/2010 to 15/12/2010 at consolidated salary of Rs. 12,000/- per month.
2010 – 2011	■ Lecturer , Dept. of Mathematics, Datta Meghe Institute of Engineering, Technology and Research, Sawangi (Meghe), Wardha from 22/12/2010 to 30/04/2011 at consolidated salary of Rs. 13,000/- per month.
2011 – 2018	■ Assistant Professor , Dept. of Mathematics, ITM College of Engineering, Kamptee, from 15/06/2011 to 30th April 2018, in the pay scale of Rs. 15,600-39,100/- with AGP of Rs. 6000/-.
2018 – till date	■ Maths Faculty , XI-XII JEE and MHT-CET coaching at Bandewar's Shree Gajanan Tuition Classes, Pvt Ltd. Mahal Nagpur from 01/05/2018 onwards, with Salary Package of 9.6 lakhs per annum.
2021 – 2022	■ Contributory Lecturer , Department of Mathematics, RTM Nagpur University Nagpur, for the subjects Dynamical Systems and Topology, with remuneration of Rs. 750/hour.
2022 – 2023	■ Contributory Lecturer , Department of Mathematics, RTM Nagpur University Nagpur, for the subjects Dynamical Systems and Number Theory, with remuneration of Rs. 1000/hour.
2023 – till date	■ Contributory Lecturer , Department of Mathematics, RTM Nagpur University Nagpur, for the subjects Field Theory and Algebra, with remuneration of Rs. 1000/hour.

Education

2022 – till date	■ Ph.D. (Pursuing), RTM Nagpur University, Nagpur Thesis title: <i>Effect of Eddy Current and Hysteresis losses in Thermoelastic medium</i> . Registration No. PHDRG202100160101, Dt. 19/03/2022.
2021	■ Maharashtra State Eligibility Test M-SET (Sept-2021) for Assistant Professor (Qualified) , Conducted by Savitribai Phule Pune University.
2008 – 2010	■ M.Sc. Mathematics, 1st Division, 61.9% , PGTD RTM Nagpur University, Nagpur in 2010.
2005 – 2008	■ B.Sc., PCM Group, 1st Division, 82.37% , Stood RTM Nagpur University Merit B. Sc. Exams in 2008.
2004	■ AISSCE XII Class, CBSE Board, 2nd Division, 58.4% , in 2004.

Research Publications

Journal Articles

- 1 **Bhushan. B. Balpande** and G. D. Kedar, "Study of hysteresis and eddy current loss of onedimensional magento-thermoelastic problem," *The International Journal of Engineering and Science (IJES)*, ISSN: 2319 – 1813, vol. 12(7), pp. 29–40, July 2023.
- 2 G. D. Kedar and **Bhushan B. Balpande**, "Analysis of hysteresis and eddy current losses in ferromagnetic plate induced by time-varying electromagnetic field," *International Research Journal of Engineering and Technology (IRJET)*, ISSN: 2395-0056, vol. 10(7), pp. 1171–1180, July 2023.
- 3 P. Kumar and **Bhushan B. Balpande**, "Thermoelastic behavior of a temperature sensitive rectangular plate," *Tech chronicle - an international e-journal on emerging trends in science, engineering and technology*, ISSN NO: 2454-1958, vol. 12, pp. 20–26, 2016.
- 4 V. R. Manthana and **Bhushan B. Balpande**, "Non-homogeneous transient problem for a thick disc with internal heat source subjected to partial heating, issn: 2321-9009," *International Journal of Advances in Science, Engineering and Technology (IJASEAT)*, vol. Special Issue-1, pp. 133–139, 2015.

Conference Proceedings

- 1 **B. B. Balpande**, "Effect of fractional order parameter on the thermoelastic behaviour of infinite planar layer subjected to eddy current loss," in *Proceedings of International Conference on Mathematical Sciences and its Applications, ICMSA-2022, 28-30 July 2022*, School of Mathematics SRTM University, Nanded, Maharashtra, India, 2022.
- 2 **B. B. Balpande**, "Study of transient magneto-thermo-elastic problem with time fractional heat conduction equation subjected to eddy current loss," in *Proceedings of CONIAPS XXVII on Recent Advances in Solid Mechanics and Seismology, 26-28 Oct. 2021*, Dept. of Mathematics KUK, Kurukshtra, India, 2021.
- 3 **Bhushan B. Balpande**, "Foundation of smart, clean and sustainable city," in *Proceedings of International Conference on Clean and Smart City and Village, ICOSMART-2017, 7-8 April 2017*, Nagpur, India, 2017.

Books and Chapters

- 1 **B. B. Balpande** and K. D. Khope, *Advanced Engineering Mathematics – 4th Sem*, M. Himalaya Publication House Pvt. Ltd. Girgaon, Ed. Mumbai, India, 2014, ISBN: 978-93-5097-869-6.
- 2 **B. B. Balpande** and T. S. Bele, *Engineering Mathematics – 2nd Sem*, M. Himalaya Publication House Pvt. Ltd. Girgaon, Ed. Mumbai, India, 2013, ISBN: 978-93-5097-563-3.
- 3 **B. B. Balpande** and A. Sheikh, *Applied Mathematics – 1st Sem*, M. Himalaya Publication House Pvt. Ltd. Girgaon, Ed. Mumbai, India, 2013, ISBN: 978-93-5097-530-5.
- 4 **B. B. Balpande** and A. Sheikh, *Applied Mathematics – 2nd Sem*, M. Himalaya Publication House Pvt. Ltd. Girgaon, Ed. Mumbai, India, 2013, ISBN: 978-93-5097-531-2.
- 5 **B. B. Balpande** and A. Sheikh, *Applied Mathematics – 3rd Sem*, M. Himalaya Publication House Pvt. Ltd. Girgaon, Ed. Mumbai, India, 2013, ISBN: 978-93-5097-869-6.

Skills

Languages	Reading, writing and speaking competencies for English, Marathi, Hindi.
Coding	Matlab, Maple Programming Language, $\text{\LaTeX}$, ...
Academic Responsibilities	Paper Setter for M. Sc. 2 nd Semester, Summer 2022 Examinations for Topology-II subject at RTM Nagpur University, Nagpur.

Skills (continued)

- **Paper Setter** for M. Sc. 4th Semester, Summer 2022 Examinations for Dynamical System subject at RTM Nagpur University, Nagpur.
 - **Paper Setter** for M. Sc. 1st Semester, Summer 2023 Examinations for Number Theory subject at RTM Nagpur University, Nagpur.
 - **Paper Setter** for M. Sc. 3rd Semester, Summer 2023 Examinations for Dynamical System subject at RTM Nagpur University, Nagpur.
 - **Examiner (Paper Valuation)** for First Semester B. E. (C. B. S.), Applied Mathematics-I, Winter 2014, RTMNU Examinations.
 - **Examiner (Paper Valuation)** for First Semester B. E. (C. B. S.), Applied Mathematics-I, Summer 2015, RTMNU Examinations.
 - **Examiner (Paper Valuation)** for First Semester B. E. (C. B. S.), Applied Mathematics-I, Winter 2016, RTMNU Examinations.
 - **Examiner (Paper Valuation)** for First Semester B. E. (C. B. S.), Applied Mathematics-I, and Third Semester B. E. (ET/EN/EC/Mech), (C. B. S.) Engineering Mathematics-III, Summer 2017, RTMNU Examinations.
- Professional Membership
- Life Member of **The Indian Science Congress Association**, Professional Body under Department of Science and Technology, Ministry of Science and Technology, Govt. of India, Membership No. L42778.
 - Life Member of **The Indian Society for Technical Education**, Membership No. LM111414.
 - Life Member of **The Indian Mathematical Society**, Founded in 1907, SPPU, Pune, India, Membership No. L/2015/84.

Miscellaneous Experience

Awards and Achievements

- 2008
- Elected as **University Representative**, of R. S. Bidkar College of Arts and Science, Hinganghat in B. Sc. Final Year.
 - **University Merit Award**, B. Sc. Final Year Exams, RTM Nagpur University, Nagpur, India.
- 2023
- **Topper (In First 5%) NPTEL 4 Week Coursework on Introduction to Professional Scientific Communication**, organized by IIT Kanpur, with 84%, form Jan-Feb 2023, funded by Gov. of India.

Certification

- **NPTEL Online Certification**. For completing the 4 Week coursework on **Introduction to Professional Scientific Communication**, organized by IIT Kanpur, with 84%, form Jan-Feb 2023, funded by Gov. of India.
- **NPTEL Online Certification**. For completing the 8 Week coursework on **Introduction to Research**, organized by IIT Madras, with 75%, form Feb-Apr 2023, funded by Gov. of India.
- **NPTEL Online Certification**. For completing the 12 Week coursework on **Research Methodology in Natural Science**, organized by IIT Madras, with 77%, form Jan-Apr 2023, funded by Gov. of India.
- **Pre-Ph. D. Course Work Certification**, organized by UGC-HRDC, RTM Nagpur University form 06/09/2017 to 16/09/2017 with 69%.

Miscellaneous Experience (continued)

- **Research Methodology Certification**, Eight days National Workshop organized by DBM, RTM Nagpur University in collaboration with NIT Graduate School of Management, Nagpur, India, from 22nd-30th April 2016.

Participation in Conferences/Seminar/Workshops

- Participated in **Workshop on Curriculum Development**, for B. E. 2nd semester for the subject Engineering Mathematics, on 27/12/2012, organized at ACET Nagpur in Association with Faculty of Engg. and Technology RTM Nagpur University, Nagpur, India.
- Participated in One day Workshop on **Applications of Mathematics and Stress Management in Daily Life**, on 21/10/2013, organized by DBACER, Wanadongri, Nagpur, India.
- Participated in Two days National Seminar on **General Relativity and Thermoelasticity**, from 13-14 Feb. 2015 organized by Dept. of Mathematics, RTM Nagpur University, Nagpur, India (Under Special Assistance Program, UGC).
- Participated in Two days workshop **Inspire**, on **Personality and Entrepreneurship Development**, from 09-10 Aug. 2016 organized by ITM College of Engineering, Kamptee, Nagpur, India.
- Participated in one week faculty development program on **Interactive Teaching**, from 05-12 Dec. 2016 organized by ITM College of Engineering, Kamptee, Nagpur, India.
- Participated in **National Workshop on Mathematical Software (Matlab and Maple-soft) NWMS-2017**, from 24-25 March 2017 organized by Dept. of Mathematics, RTM Nagpur University, Nagpur, India.
- Participated in one day workshop on **Nurturing Research in Academics**, held on 13th Oct. 2022 organized by RTM Nagpur University, Nagpur, India.

Personal Details

Date of Birth	13 th April 1987.
Marital Status	Married.
Gender	Male.
Category(caste)	OBC(Teli).
Hobbies	Sports(Badminton), Driving, Reading, Delivering Seminar.
Mother tongue	Marathi.
Languages Known	English, Marathi, Hindi.
Nationality	Indian.
Address	(1) Yashoda Niwas, Sant Tukdoji Ward, Near Nasre Engg. House, Hinganghat 442301, Distt: Wardha, Maharashtra. (2) C/o, Flat 202, Shantiraj Apartment, Green Planet Society, Onkar Nagar Road, Nagpur 440027.