Profile of the Faculty

1. General Information:

Name of the Faculty	:	Prof.(Dr.) Subhash Ishwar Unhale
Name of the Department	:	Mathematics
Educational Qualifications	:	M.Sc., M. Phil., Ph. D.(Gold Medalist), SET
Present Position	:	Professor and Head
Address for Correspondence	:	Department of Mathematics, Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous), Plot-No.01, Sector-11, Khanda Colony, New Panvel (W), Dist. Raigad, Maharashtra, India-410206
E-mail	:	subhashunhale@gmail.com subhashunhale@ckthakurcollege.net
Contact Number	:	(022) 27464193, (022) 27455760
Specialization	:	Analysis
Total teaching experience	:	22 Years
Courses taught	:	F.Y.B.Sc., S.Y.B.Sc., T.Y. B.Sc., F.Y.B.Com.
Research experience	:	14 Years

2. Publication of Research Papers:

UGC listed journals	:	12
Peer reviewed journals	:	02
Non-peer reviewed journals	:	05
Conference proceedings	:	03

Research Profile:

1. Google Scholar profile

https://scholar.google.com/citations?user=ZdL72iEAAAAJ&hl=en&oi=ao

2. Research Gate profile

https://www.researchgate.net/profile/Subhash-Unhale

3. Scopus profile

https://www.scopus.com/authid/detail.uri?authorId=57200615387

4. VIDWAN profile

https://vidwan.inflibnet.ac.in/profile/439399

List of Publication of Research Papers:

- Hayman Thabet, S.D. Kendre and **S.I. Unhale**; Numerical Analysis of Iterative Fractional Partial Integro-Differential Equations, *Journal of Mathematics*, (2022), 1-14.
- **S.I. Unhale** and S. D. Kendre; On existence and uniqueness results for iterative mixed integrodifferential equation of fractional order, *J. Appl. Anal.*, 26(2) (2020), 263-272 htttps://doi.org/10.1515/jaa-2020-2023.
- S.D. Kendre and **S.I. Unhale**; On existence, uniqueness and Ulam's stability results for boundary value problems of fractional iterative integrodifferential equations, *Journal J. Appl. Math. Comput.,* 64 (2020), 503–517, https://doi.org/10.1007/s12190-020-01366-z.
- **S.I. Unhale** and M. A. Joshi; A Statistical Study on Road Accidents in Ghat Section of Mumbai Pune Expressway, Utkal Historical Research Journal, 36, 1(III), (2023), 50-53.
- **S.I. Unhale** and S.D. Kendre; On Existence and Uniqueness results for iterative fractional integrodifferential equation with deviating arguments, *Applied Mathematics E-Notes*, 19(2019), 116-127.
- **S.I. Unhale** and S.D. Kendre; On Controllability of Mixed Iterative Integrodifferential Equations of Fractional Order, *Malaya Journal of Mathematik,* 1 (2019), 679-688.
- **S.I. Unhale** and S.D. Kendre; Existence and Uniqueness Results for Iterative Volterra Integrodifferential Equation of Fractional Order, *Communications on Applied Nonlinear Analysis,* 25(1) (2018), 81-91.
- **S.I. Unhale** and S.D. Kendre; Numerical Solution of Nonlinear Fractional Integro-differential Equations by Collocation method, *Malaya Journal of Mathematik,* 6(1) (2018), 73-79, 10.26637/MJM0601/0011.
- **S.I. Unhale**; Numerical Solution of Nonlinear Fractional Integrodifferential Equation by Fractional Power Series Method, *Printing Area*, International Research Journal, Special Issue, 2018, 85-91.
- **S.I. Unhale**, S.L. Khairnar, and M.A. Joshi; Study On Impact of Sound Frequency on Human Well Being Using Randomized Block Design, *JAZ,* Special Issue (2023), 1-11.
- N.R. Gharat and **S.I. Unhale**; A Fuzzy Logic Approach for Best Crop Selection, *JAZ*, Special Issue, (2023), 179-182.
- **Subhash I. Unhale** and Sadikali L. Shaikh; Applications of the Sumudu Transform to Groundwater Flow and Solute Transport Modelling, *International Journal of Research and Analytical Reviews,* 5(4) 2018, 554-558.
- **S.I. Unhale** and N.D. Mokal; An Assessment of Student Project using Fuzzy Logic based on Grading System, *Anugoonj*, (6), 2016-2017, 31-35.
- **S.I. Unhale** and N.D. Mokal; Evaluation of Faculty Performance by Using Fuzzy Logic in Educational Institutions, *Anugoonj*, (5), 2015-2016, 33-39.
- **S.I. Unhale** and N.D. Mokal; A New Approach for Fuzzy Traffic Signal Control, *Anugoonj,* (4), 2014-2015, 30-34.
- **S.I. Unhale** and N.D. Mokal; Fuzzy Logic Control of Washing Machine, *Anugoonj,* (3), 2013-2014, 30-35.
- **S.I. Unhale** and M.A. Joshi; Fast Food: Need of Trend, *Anugoonj*, (2), 2012-2013, 62-64.

- ➤ **Unhale S.I.** and Chaudhary M.S.; On distributional generalised Laplace transformation', *The Journal of the Indian Academy of Mathematics*, 30 (2) 2008, 403-412.

- • **Publications in Conference Proceedings (03)**

  - ➤ **Unhale Subhash Ishwar**; Applications of Differential Equation for corruption and Population Growth and Decay, *Proceeding of the UGC Sponsored National Seminar on Recent Trends in Differential Equation and its Applications*, 2016, 18-30, ISBN 978-93-83342-35-8.
  - ➤ **Subhash Unhale** and Deepak Narkhede; Feedback Management System: Our Initiative, *Proceeding of two days UGC Sponsored National Seminar on Role of Best Practices in Quality Enhancement and Sustenance in Higher Education Institutions,* 2015, 4-9, ISBN 978-93-833342-14-3.
  - ➤ D.S. Narkhede and **S.I. Unhale**; Planning, Execution and feedback for effective Teaching-Learning process-Our Initiative, *Proceeding of two days UGC Sponsored National Seminar on Role of Best Practices in Quality Enhancement and Sustenance in Higher Education Institutions,* 2015, 10-13, ISBN 978-93-833342-14-3.

3. Books authored:

Edited book by National publisher	**:**	13

List of Books authored:

1. Subhash Unhale, Sagar L. Khairnar, Mayuri Joshi, et al.; Business Mathematics and Statistics I, *Sheth Publishers Pvt. Ltd.,* 2024, ISBN: 978-93-6268-456-1.
2. Subhash I. Unhale, Nilima R. Gharat, et al.; A Text Book of Calculus-I, *Sheth Publishers Pvt. Ltd.* 2024, ISBN: 978-93-6268-210-9.
3. Subhash Unhale, Sagar L. Khairnar, et al.; Business Mathematics, *Sheth Publishers Pvt. Ltd.* 2023, ISBN: 978-93-5725-240-9.
4. Subhash I. Unhale, Nilima R. Gharat, et al.; A Text Book of Calculus-I, *Sheth Publishers Pvt. Ltd.* 2023, ISBN: 978-93-5725-274-4.
5. Subhash Unhale, Sagar L. Khairnar and Kusum R. Rajbhar; Problem book for Business Mathematics, *Sheth Publishers Pvt. Ltd.* 2023, ISBN: 978-93-5902-734-0.
6. Subhash Unhale, Sagar L. Khairnar, Mayuri Joshi, et al.; Business Statistics, *Sheth Publishers Pvt. Ltd.,* 2023, ISBN: 978-93-5902-907-8.
7. Subhash I. Unhale, Nilima R. Gharat, et al.; A Text Book of Calculus-I, *Sheth Publishers Pvt. Ltd.* 2022, ISBN: 978-93-5576-340-2.
8. Subhash I. Unhale, Nilima R. Gharat, et al.; A Text Book of Calculus-II, *Sheth Publishers Pvt. Ltd.* 2022, ISBN: 978-93-5576-218-4.
9. Subhash I. Unhale, Nilima R. Gharat, et al.; A Text Book of Calculus-II, *Sheth Publishers Pvt. Ltd.* 2020, ISBN: 978-93-81801-01-7.
10. Subhash Unhale, Sagar Khairnar, et al.; Mathematical & Statistical Techniques-I, *Sheth Publishers Pvt. Ltd.* 2019, ISBN: 978-93-89092-21-9.

11. Subhash Unhale, Sagar Khairnar, et al.; Mathematical & Statistical Techniques-II, *Sheth Publishers Pvt. Ltd.* 2019, ISBN: 978-93-89542-77-6.
12. Dhananjay M. Kshirsagar, Chandrakant S. Kakade, Subhash I. Unhale; Mathematical & Statistical Techniques, Sem. I, *Universal Publishing House,* 2018, ISBN: 978-93-83342-27-3.
13. Dhananjay M. Kshirsagar, Chandrakant S. Kakade, Subhash I. Unhale; Mathematical & Statistical Techniques, Sem. II, *Universal Publishing House,* 2018, ISBN: 978-93-83342-29-7.

4. Patent:

Status	National
Published	01

List of Patents:
Title: A patent is published on 'A Collision Avoidance System in a Vehicle'

5. Minor Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Export of Marine Product: Time Series Model	11/01/2012	2 Years	2,00,000/-	UGC
Road Accidents and Preventive Management in Ghats Sections: A Statistical Study	16/01/2017	1 Year	25,000/-	University of Mumbai
A Statistical Study on Road Accidents and Awareness of Preventive Measures	2020-2022	1 Year	1,00,000/-	RUSA

6. Minor Research Project Ongoing:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Study of the Impact of COVID-19 on Health and Education	01/01/2024	2 Years	2,00,000/-	NGO (TIPL)

7. Membership:

- ➢ Member, 'The Journal of the Indian Academy of Mathematics ' Indore
- ➢ Member, 'Indian Mathematical Society ' Aurangabad
- ➢ Member, 'Bombay Mathematical Colloquium'

8. Academic Staff College Orientation/Refresher courses attended:

Name of the Course	Place	Duration	Sponsoring Agency
Orientation Course	UGC-ASC, Goa University, Goa	31/03/2010 to 29/04/2010	UGC, New Delhi
Refresher Course	UGC – CPDHE(ASC), University of Delhi, Delhi	02/01/2013 to 22/01/2013	UGC, New Delhi
Refresher Course	UGC-ASC, Dr. BAMU, Aurangabad	02/03/2015 to 24/03/2015	UGC, New Delhi
Short Term Course	UGC-HRDC, University of Mumbai	06/03/2017 to 11/03/2017	UGC, New Delhi
Refresher Course	UGC-HRDC, Gujarat University, Ahmedabad	28/05/2018 to 17/06/2018	UGC, New Delhi

9. Participation in conferences, symposia, seminars and workshops:

Level	Presented paper	Only attended
International	03	01
National	06	07
State	03	03
University	---	14

10. Conferences, symposia, seminars and workshops organized as convener/co-convener:

Level	Convener	Co-convener
National	**04**	**02**
State	**---**	**01**

11. Experience on the various committees at the college

- Examination Cell - 06 Years (as a Controller of Examinations)
- Finance Committee - 06 Years (as a Permanent Invitee Member)
- College Development Committee - 06 Years (as a Permanent Invitee Member)
- Autonomy Monitoring Committee - 06 Years (as a Member)
- Academic Council- 06 Years (as a Member)
- Board of Studies in Mathematics – 06 Years (as a Chairman)
- Board of Studies in Computer Science – 06 Years (as a Member)
- Examination Committee- 02 years (as a Chairman)
- Examination Committee- 06 years (as a Member)
- Internal Quality Assurance Cell (IQAC) - 14 Years (as a Member)
- Prospectus Committee – 06 Years (as a Member)

- ➢ Unfair means Committee- 01 year (as a Member)
- ➢ Feedback Management system- 10 Years (as a Chairman)
- ➢ Avishkar Research Convention- 03 Years (as a Member)
- ➢ Staff Welfair Committee- 10 Years (as a Member)

12. Experience on the NAAC/ IQAC of the college

- ➢ Internal Quality Assurance Cell (IQAC) - 14 Years (as a Member)

13. Experience on the various committees at the University of Mumbai/ Government

- ➢ **Member, BOS in Mathematics**, University of Mumbai (From September 2022 till date).
- ➢ **Member, BOS in Mathematics**, 1) Tilak College of Science and Commerce, Navi Mumbai, 2) Jhunjhunwala College, Mumbai, 3) S.P.K. Mahavidyalaya, Sawantwadi, Dist. Sindhudurg.
- ➢ **Vice-Chancellor's nominee as a subject expert** on the **selection committee** for the appointment to the post of Assistant Professor in Mathematics at various colleges under the University of Mumbai.
- ➢ **Vice-Chancellor's nominee as a subject expert** on the **selection committee** constituted for the promotion of teachers under CAS from Associate Professor to Professor in Mathematics at various colleges under the University of Mumbai.
- ➢ **Vice-Chancellor's nominee as a subject expert** on the **selection committee** constituted for the promotion of teachers under CAS from Assistant Professor to Associate Professor in Mathematics at various colleges under the University of Mumbai.
- ➢ **Vice-Chancellor's nominee as a subject expert** on the **Screening Cum Evaluation committee** constituted for the promotion of teachers under CAS from Assistant Professor Stage 2 to Assistant Professor Stage 3 in Mathematics at various colleges under the University of Mumbai.
- ➢ **Vice-Chancellor's nominee as a subject expert** on the **Screening Cum Evaluation committee** constituted for the promotion of teachers under CAS from Assistant Professor Stage 1 to Assistant Professor Stage 2 in Mathematics at various colleges under the University of Mumbai.
- ➢ **Local Inquiry Committee member,** for Extension of Recognition (New course) for Ph.D. degree course in the subject of Mathematics constituted by University of Mumbai.

14. Awards/recognitions received :

Level	Title	Year	Awarding agency
National	**Gold Medal Award**, " Padmashree Late N.S. Venkatesan Gold Medal" for the Best Ph. D. Thesis in Mathematics	2021	Savitribai Phule Pune University (Formerly University of Pune)
State	'**Best paper Presentation Award**', at State Level Seminar(Neuro, Fuzzy and Computing)	2014	M.P.A.S.C. College, Panvel