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
Address for Correspondence	:	Flat No. 602, Siddhivinayak Tower CHS Ltd., Plot No. 82, Sector- 19, Kamothe, Navi Mumbai, Dist. Raigad- 410209.
E-mail	:	subhashunhale@gmail.com subhashunhale@ckthakurcollege.net
Contact Number	:	9920995531
Specialization	:	Analysis, Differential Equations
Total teaching experience	:	20 Years
Courses taught	:	F.Y.B.Sc., S.Y.B.Sc., T.Y. B.Sc., F.Y.B.Com.
Research experience	:	12 Years

2. Publication of Research Papers:

UGC listed journals	:	10
Peer reviewed journals	:	02
Non-peer reviewed journals	:	05
Conference proceedings	:	03

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.
- 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.
- 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)**
  - Feedback Management System: Our Initiative
  - Planning, Execution and feedback for effective Teaching-Learning process: Our Initiative
  - Applications of Differential Equation for corruption & Population growth & decay

3. Books authored:

Edited book by National publisher	:	10

List of Books authored:
- Calculus I, Sheth Publishers Pvt. Ltd.
- Calculus II, Sheth Publishers Pvt. Ltd.
- Mathematical & Statistical Techniques-I, Sheth Publishers Pvt. Ltd.
- Mathematical & Statistical Techniques-II, Sheth Publishers Pvt. Ltd.

- Calculus II, Sheth Publishers Pvt. Ltd.
- Mathematical & Statistical Techniques, Sem. I, Universal Publishing House
- Mathematical & Statistical Techniques, Sem II, Universal Publishing House
- Business Mathematics, Sheth Publishers Pvt. Ltd.
- Calculus I, Sheth Publishers Pvt. Ltd.
- Computer Oriented Statistical techniques, Sheth Publishers Pvt. Ltd.

4. Patents:

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. Membership:

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

7. 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

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

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

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

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

10. Experience on the various committees at the college

- Examination Cell - 04 Year (as a Controller of Examinations)
- Finance Committee - 04 Year (as a Permanent Invitee Member)
- College Development Committee - 04 Year (as a Permanent Invitee Member)
- Autonomy Monitoring Committee - 04 Year (as a Member)
- Academic Council- 04 Year (as a Member)
- Board of Studies in Mathematics – 04 Year (as a Chairman)
- Board of Studies in Computer Science – 04 Year (as a Member)
- Examination Committee- 02 years (as a Chairman)
- Examination Committee- 06 years (as a Member)
- Internal Quality Assurance Cell (IQAC) - 12 Years (as a Member)
- Prospectus Committee – 04 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)

11. Experience on the NAAC/ IQAC of the college

- Internal Quality Assurance Cell (IQAC) - 12 Years (as a Member)

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

- ➢ **Member, BOS in Mathematics**, University of Mumbai (From September 2022 till date).
- ➢ **Vice-Chancellor's nominee as a Subject Expert** on the selection committee for the appointment to the post of Assistant Professor in the subject of Mathematics at Guhagar Education Society's G.B. Tatha Tatyasaheb Khare Commerce, Parvatibai Gurupad Dhere Art's and Shri. Mahesh Janardan Bhosale Science College, Guhagur, Dist. Ratnagiri in the Academic Year 2016-17.
- ➢ **Subject Expert** on the selection committee for the appointment to the post of Assistant Professor in the subject of Mathematics at K.M.C. College of Arts, Commerce and Science Khopoli, Dist. Raigad in the Academic Year 2017-18.
- ➢ **Subject Expert** on the selection committee for the appointment to the post of Assistant Professor in the subject of Mathematics at KLE Society's Science and Commerce College, Kalamboli, Navi Mumbai, Dist. Raigad in the Academic Year 2014-15 and 2017-18.
- ➢ **Subject Expert** on the selection committee for the appointment to the post of Assistant Professor in the subject of Mathematics at Shikshan Maharashi Dadasaheb Limaye College of Arts, Commerce and Science, Kalamboli, Navi Mumbai, Dist. Raigad in the Academic Year 2017-18.
- ➢ **Subject Expert** on the selection committee for the appointment to the post of Assistant Professor in the subject of Mathematics at Rayat Shikshan Sanstha's K.B.P. College, Vashi, Navi Mumbai, in the Academic Year 2021-22, 2022-23 & 2023-24.
- ➢ **Subject Expert** on the selection committee for the appointment to the post of Assistant Professor in the subject of Mathematics at Ramsheth Thakur College of Commerce and Science, Kharghar, Navi Mumbai, in the Academic Year 2020-21, 2021-22, 2022-23 & 2023-24.

13. 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