

Curriculum Vitae



1. Personal Details

Name: - **Lt. (Dr.) Hanmant P. Salunkhe**

M.Sc., NET, Ph.D., .M.B.A.

Assistant Professor in Mathematics,
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Personal Information:-	
Name:	Salunkhe Hanmant Pandurang
Permanent Address:	A/P.:-Nigadi, Tal:-Shirala, Dist:-Sangli, PIN-415 408.
Corresponding Address:	Room No.-317, Department of Technology, Shivaji University, Vidyanagar Kolhapur. 416004
Personal Contact Number:	+91-9011908282
Residence Contact Number	+91-9011908686 (M)
Marital Status:	Married
Gender:	Male
Nationality:	Indian
Languages:	English, Hindi, Marathi.

E-mail:	hpsalunkhe@gmail.com
Teaching Experience	12 years
Date of joining	24/12/2011
Field of Research Interest/ Area of Interest	Fluid dynamics, Non Newtonian Fluid dynamics, Modeling, Continuum Mechanics, Cryptography

2. Academic Details:-

Educational Qualifications:-			
Degree	Board/University	Year Of Passing	Class Obtained
H.S.C.	Kolhapur Board	2003	First class
B.Sc.(Maths)	Shivaji University, Kolhapur.	2006	First class with distinction
M.Sc.(Maths)	Shivaji University, Kolhapur	2008	First class with distinction
NET (Mathematical Sciences)	CSIR	2010	Passed
Ph.D (Mathematics)	Shivaji University, Kolhapur	2019	---
M.B.A. (Executive)	Shivaji University, Kolhapur.	2021	First Class

3. Work Experience:-

UG / PG:-	
1	Lecturer, Department of Mathematics, Kankavli College Kankavli (Mumbai University) , From June2008 to April2009.
2	Lecturer, Department of Mathematics, D.Y.Patil College Of Engg. & Tech. Kolhapur (Shivaji University) , From July2009 to April2011.
3	Assistant Professor, Department of Technology, Shivaji University, Kolhapur, From May 2011 to till

4. Other Responsibilities/Member on committee/Judge/Resource Person

1	Care Taker Officer (CTO), NCC Sub-Unit, Department of Technology, Shivaji University, Kolhapur From July 2022 to till
2	Additional Charge of Associate Professor, Center for Distance Education Shivaji University, Kolhapur, From Nov. 2018 to till
3	Coordinator, First Year B.Tech, Department of Technology, Shivaji University, Kolhapur From July 2013 to April 2023

5. Research Specialization:-

1. Applied Mathematics
2. Fluid Dynamics
3. Non Newtonian Fluid dynamics
4. Tensor Calculus
5. Continuum Mechanics
6. Cryptography

6. Research Projects

Ongoing:-

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| 1 | Constitutive Equations for Dynamics of MR Fluid. |
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Completed:-

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| 1 | Constitutive Equations for MR and ER Fluid Dampers. |
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7. Research Papers

Published:-

13.	Hanmant Salunkhe, Surendra Thikane, Shivaji Sadale, "Electrorheological fluids: Mathematical theory and physics", Mathematics in Engineering, Science and Aerospace (MESA), Volume 14, Issue 3, (August 2023), pp 649-659.
12.	Hanmant Salunkhe, Surendra Thikane, Shivaji Sadale, "Magnetorheological Damper and Its Applications: Current Scenario and Future Prospects", Romanian Journal of Acoustics and Vibration, Volume 20, Issue 1, (August 2023), pp 20-29.
11.	Vikas D. Kamble, Surendra D. Thikane, Hanmant P. Salunkhe, "Modeling and Analysis of Navier-Stokes Equation: An Application Perspective", Journal of Shivaji University: Science and Technology, Volume 43, Issue 2, (July 2023), pp 67-74.
10.	Snehal Karande, Hanmant Salunkhe, "Applications of Number Theory in Asymmetric Cryptography", Journal of Shivaji University: Science and Technology, Volume 43, Issue 2, (July 2023), pp 59-66.
9.	Hanmant Salunkhe, Surendra Thikane, "Electrorheological Fluids: Mathematical Theory and Abstract Algebra", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 12, Issue 5, (May 2023), pp 5418-5424. DOI:10.15680/IJIRSET.2023.1205140
8.	Hanmant Salunkhe, Ajit Kolekar, Surendra Thikane, "Electrorheological Fluids: Properties, Technology and Modern Applications", International Research Journal of Engineering and Technology (IRJET), Volume: 10 Issue: 02 (Feb 2023), pp 129-134
7.	Hanmant Salunkhe and Surendra Thikane, "Analytical Mechanics of Magnetic Particles Suspended in Magnetorheological Fluid", International Journal of Engineering and Management Research, Volume-12, Issue-2 (April 2022), pp 97-104. https://doi.org/10.31033/ijemr.12.2.15
6.	Hanmant Salunkhe, Shivaji Sadale, Surendra Thikane, Lagrangian Equation of Motion for Magnetorheological Fluids, Online International Interdisciplinary Research Journal, Volume -09, Issue-01, (January 2019), pp 73-85.
5.	H. P. Salunkhe, S. B. Sadale, S. D. Thikane, Mathematical Modeling of Electrorheological Damper in Semiactive Suspension, Mathematical Sciences International Research Journal, Volume 7, (2018), pp 67-74.

4.	H. P. Salunkhe, S. D. Thikane , Vector Space & Linear Mapping for Electrorheological Fluid, Mathematical Sciences International Research Journal, Volume 7 , (2018), pp 61-66.
3.	H. P. Salunkhe, S. D. Thikane , Magnetorheological Fluids & Its Applications: Current Scenario & Future Prospectus, Mathematical Sciences International Research Journal, Volume 6, (2017), pp 207-213.
2.	H. P. Salunkhe, S. D. Thikane , Mathematical Modeling of Semi-active Suspension of MR Damper in Presence of Uniform Magnetic Field, Mathematical Sciences International Research Journal, Volume 6, (2017), pp 200-206.
1.	Ajim Sutar and Hanmant Salunkhe , “Waste Plastic Separation – A Comparative Feasible Study”, International Journal of Innovative Research and Creative Technology, Volume 1 Issue 3, (December 2015), pp 320-322.

Presented:-

1.	H P Salunkhe, S D Thikane, S B Sadale, Mathematical Modeling, Analysis and Simulation of Magnetorheological Fluid Dampers , 4th International Conference on “Advanced Technologies for Societal Applications” organised by Shri Vithal Education & Research Institute (SVERI), Pandharpur, India during 9th - 10th December 2022
2.	H P Salunkhe, S D Thikane, Vector Space And Linear Mapping For Electrorheological Fluid , International Conference on Advances in Mathematics, Computers & Physical Sciences, 2018 at Chandigarh during the period Feb 22-24, 2018.
3.	H P Salunkhe, S D Thikane, Mathematical Modeling of Semi-active Suspension of MR Damper in Presence of Uniform Magnetic Field , International Conference on Advances in Mathematics & Computer Science 2017 at V.V.Vanniaperumal College for Women, Virudhunagar, (Near Madurai), Tamil Nadu, India during the period Dec 14 - 16, 2017

4	H P Salunkhe, S D Thikane, Sagar Khilare, Magnetorheological Dampers , 82th Annual Conference of The Indian Mathematical Society organised by University Of Kalyani, West Bengal during December 27-30. 2016
5	H P Salunkhe, S D Thikane, Mathematical Modeling and Design Of MR Fluid Damper for Vibration Control and Suspension , International Conference on Mathematics (ICM-2015) organised by Department of Mathematics, University of Kerala, Thiruvananthapuram during 24 th November to 28 ^h November, 2015.
6.	H P Salunkhe, S D Thikane, Constitutive Equations for MR Fluid Damper , National Conference on Differential Equations and Applications (NCDEAA-2014) organised by Department of Mathematics, University of Mumbai, Vidyanagari, Santacruz (East), Mumbai during February 14-15, 2014.

8. Conferences

Conferences Attended:-

1	<u>"4th International Conference on "Advanced Technologies for Societal Applications"</u> held on 9th - 10th December 2022 at Pandharpur.
2	<u>"National Multi-Disciplinary Conference on Outcome Based Education: Issues and Challenges"</u> , held on April 05, 2019 at Kolhapur.
3	<u>"International Conference on Advances in Mathematics, Computer Science and Physical Sciences-2018"</u> held on February 22-24, 2018 at Chandigarh.
4	<u>"International Conference on Advances in Mathematics and Computer Science-2017"</u> held on December 14-16, 2017 at Tamil Nadu.
5	<u>"National Conference on Interdisciplinary Trends in Engineering and Technology"</u> held on 17-18, FEB, 2017 at Shivaji University, Kolhapur.
6	<u>"82th Annual Conference of The Indian Mathematical Society (IMS)"</u> held on December 27-30, 2016 at University of Kalyani, West Bengal.
7	<u>"International Conference on Mathematics 2015"</u> held on Nov. 26-28, 2015 at University of Kerala.
8	National Conference on <u>"Differential Equations and Applications"</u> held on February 14-15, 2014 at University of Mumbai, Mumbai.

9	<u>"20th Annual Conference on Applicable Mathematics & Students Carnival"</u> held on 8 th & 9 th February 2013 organized by Shri Vijaysingha Yadav arts & Science College, Peth Vadgoan.
10	<u>"78th Annual Conference of the Indian Mathematical Society"</u> held on January 22-25, 2013 at Banaras Hindu University, Varanasi.
11	National conference on <u>"Emerging Technologies for Sustainable Developments"</u> held on 27 th & 28 th December, 2012, at Shivaji University, Kolhapur.
12	National Conference on <u>"Mathematical Aspects of Physical Concepts and Physical Aspects of Mathematical Concepts"</u> held on 16-17 January 2010 at S.H.Kelkar College of Science Devgad

9. Workshop

Workshops & Seminars Attended:-

1	Participated in <u>"One Week Workshop on Use of MATLAB for Online Practical's"</u> at Nanded on 05-09 July 2021.
2	Participated in <u>"Online workshop on Curriculum Design as per OBE Philosophy"</u> at Shivaji University, Kolhapur on 9-24 Feb. 2021.
3	Participated in <u>"National webinar on Mathematical Sciences For Everyone"</u> at Malkapur on 29 July 2020.
4	Participated in <u>"National webinar on Advances in Mathematics"</u> at Aurangabad on 24-26 July 2020.
5	Attended one day workshop on <u>"Research Methodology"</u> conducted by Shivaji University, Kolhapur on 18 January 2020.
6	Participated in <u>"One day Workshop on UGC Regulations 2018"</u> at Shivaji University, Kolhapur on 22 July 2019.
7	Participated in <u>"National Workshop on NBA and NAAC Accreditation"</u> at Sikkim on 18-22 June 2019.
8	Participated in <u>"Workshop for Faculty Mentors on Induction Programme"</u> conducted by PEC University of Technology, Chandigarh on 22-24 , September 2017.
9	Participated in <u>"Familiarization workshop on Patents and IPR"</u> conducted by Rajaram College, Kolhapur on 8 February 2017.

10	Participated in <u>“one day workshop on LaTeX”</u> conducted by IIT Bombay on 29 August 2015.
11	Participated in <u>“One day seminar on HAZOP Management in Industry”</u> conducted Shivaji University, Kolhapur on 23 July 2015.
12	Participated in <u>“Two day National workshop on Econometrics with Computer Applications”</u> conducted Shivaji University, Kolhapur on 9, 10 March 2015.
13	Participated in <u>“CEP Course on Computing Techniques for solving Engineering Problems”</u> conducted by IIT Bombay and Shivaji University, Kolhapur on February 18-22, 2015.
14	Participated in <u>“one day workshop on outcome Based Modular Syllabus”</u> conducted by Shivaji University, Kolhapur on 6 August 2014.
15	Participated in <u>“Two weeks ISTE workshop on Cyber Security”</u> conducted by IIT Bombay on 10 th to 20 th July, 2014.
16	Participated in <u>Two Week ISTE Main Workshop on Computer Programming</u> conducted by IIT, Bombay 20 th May to 21 st June 2014
17	Participated in <u>“Two week Main Workshop On Fluid Dynamics”</u> conducted by IIT , Kharagpur on 20 th to 30 th May 2014
18	Participated in One day workshop on <u>“Latex-Effective Document writing ”</u> organized by Rajarambapu Institute of Technology, Rajaramnagar on 05 th April, 2014
19	Participated in One day workshop on <u>“Spoken Tutorial”</u> organized by Department of Technology, Shivaji University , Kolhapur on 29 th Jan., 2014
20	Participated in a one day workshop on <u>“Effectiveness in teaching for organizational Excellence”</u> organized by Training and Placement cell Department of Technology, Shivaji University, Kolhapur on 3 rd Jan., 2013.
21	Participated in a two days workshop on <u>“Research Writing, Ethics, Plagiarism and Publishability”</u> organized by IQAC, Shivaji University, Kolhapur held on 26 th & 27 th July, 2012
22	Participated in a two weeks ISTE workshop on <u>“Computational Fluid Dynamics”</u> conducted by IIT Bombay on 12 th to 22 th June, 2012.
23	Participated in a two days ISTE workshop on <u>“Writing Effective Conference Papers”</u> conducted by IIT Bombay on 18 th and 19 th Feb., 2012.

10. Organization of Conferences / Workshops / Seminars / Induction Program

Organization of Conferences:-

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| 1 | Coordinator, National Multi-Disciplinary Conference on Outcome Based Education : Issues and Challenges (OBEIC)-2019 , at Department of Technology and Department of Education, Shivaji University, Kolhapur, April 05, 2019. |
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Organization of Induction Program:-

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| 1 | Coordinator, Three Week Induction Program for Newly Admitted Students-2019-20 , at Department of Technology, Shivaji University, Kolhapur, August 12-31, 2019. |
| 2 | Coordinator, Student Induction Program for Newly Admitted Students-2020-21 , at Department of Technology, Shivaji University, Kolhapur, February 02-06, 2021. |

11. Orientation, Refresher, FDP, STTP

Orientation, Refresher, FDP, STTP Attended:-

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| 1 | "FDP on Recent Trends in Food Processing and Preservation Technologies " organized by Department Of Technology, Shivaji University, Kolhapur during the period 01/02/2022 to 05/02/2022 |
| 2 | "FDP on Emerging Trends in Applied Mathematics" organized by Dayananda Sagar College of Engg. during the period 06/12/2021 to 10/12/2021 |
| 3 | "Short term course on Linear Algebra and its Applications" organized by IIT Delhi during the period 20-24, December 2020. |
| 4 | "One week Faculty Development Program on Mathematics with Matlab and Mathematica" organized by Department of Mathematics, IIT Indore during the period 23.11.2020 to 28.11.2020 |
| 5 | "Two week Faculty Development Program on ICT Based New Paradigms of E-Teaching and E-Learning: Digital Pedagogy" organized by Mata Sundri College for Women, University of Delhi in association with PMMMNMTT Teaching Learning Centre, Ramanujan College University Of Delhi during the period 15.09.2020 to 30.09.2020. |

6	“STTP on Linear Algebra and Statistics for Engineers and Scientists” organized by Government College of Engineering, Aurangabad during the period 02-06 , September 2020.
7	“Refresher Programme in Recent Trends in Teaching, Learning Technology” organised by Faculty Development Centre, UGC–Human Resource Development Centre, Savitribai Phule Pune University, Pune-411007 during the period 08 - 28 December, 2018 at Department of Education Shivaji University, Kolhapur-416004.
8	“Short term course on Modern Cryptography” conducted by IIT Khagarpur during the period 17-21 , September 2018.
9	“Refresher course in Mathematics and Statistics” organized by UGC - Human Resource Development Centre, University Of Mumbai at Mumbai during the period 07 - 26 November, 2016.
10	“113th Orientation Programme” organized by UGC -Human Resource Development Centre, University of Allahabad at Allahabad during the period 22 February - 20 March , 2016.

12. Invited Talks

Invited Talks:-	
1	Delivered six lectures in the Students Induction Program, organized by Department of Technology, Shivaji University, Kolhapur, August, 2018.
2	Delivered two lectures in the Students Induction Program, organized by Department of Technology, Shivaji University, Kolhapur, August, 2019.
3	Delivered a series of four lectures on Classical Mechanics for the distance mode students, held in the Centre of Distance Education, Shivaji University, Kolhapur, 18, October 2019.
4	Delivered two lectures in the Ph.D Course work, organized by Department of Education, Shivaji University, Kolhapur, 11, May 2019.
5	Delivered a series of five lectures on Classical Mechanics for the distance mode students, held in the Centre of Distance Education, Shivaji University, Kolhapur, 24-Feb.-22 March 2021.

13. Membership

1	Life Member of IMS
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