

Curriculum Vitae



1. Personal Details

Name: - Lt. (Dr.) H. P. Salunkhe

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

Assistant Professor in Mathematics,
School of Engineering and Technology,
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Personal Information:-	
Name:	Lt. (Dr.) H. P. Salunkhe
Corresponding Address:	Room No.-317, School of Engineering and Technology, Shivaji University, Vidyanagar Kolhapur. 416004
Contact Number:	02312609424
Gender:	Male
Nationality:	Indian
Languages:	English, Hindi, Marathi.
E-mail:	hps_tech@unishivaji.ac.in
Teaching Experience	15 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	Assistant Professor, School of Engineering and Technology, Shivaji University, Kolhapur, From May 2011 to till
2	Lecturer, Department of Mathematics, D.Y.Patil College Of Engg. & Tech. Kolhapur (Shivaji University) , From July2009 to April2011.
3	Lecturer, Department of Mathematics, Kankavli College Kankavli (Mumbai University) , From June2008 to April2009.

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

1	Associate NCC Officer, NCC Sub-Unit, School of Engineering and Technology, Shivaji University, Kolhapur From October 2024 to till
2	Care Taker Officer (CTO), NCC Sub-Unit, School of Engineering and Technology, Shivaji University, Kolhapur From July 2022 to September 2024
3	Additional Charge of Associate Professor, Center for Distance Education Shivaji University, Kolhapur, From Nov. 2018 to till
4	Coordinator, First Year B.Tech, School of Engineering and 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:-	
1	Constitutive Equations for Dynamics of MR Fluid.
Completed:-	
1	Constitutive Equations for MR and ER Fluid Dampers.

7. Research Papers

Published in Journals:-	
1	Ketan Gejage, Shrikant Bhosale, Hanmant Salunkhe , "Lake Water Quality Monitoring, A Comparative Review and Future Direction: Kolhapur city", International Journal for Research Trends and Innovation, Volume 8, Issue 12, (December 2023), pp 142-145.
2	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.
3	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.
4	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.
5	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.
6	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
7	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
8	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
9	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.
10	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.
11	H. P. Salunkhe, S. D. Thikane , Vector Space & Linear Mapping for Electrorheological Fluid, Mathematical Sciences International Research Journal, Volume 7, (2018), pp 61-66.
12	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.
13	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.
14	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.

Published in Books

1.	Hanmant Salunkhe, Surendra Thikane, Shivaji Sadale , " Mathematical Modeling, Analysis and Simulation of MR Fluid Damper", Techno-Societal 2022 Springer International Publishing, (September 2023) pp. 539-549
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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. Organization of Conferences / Workshops / Seminars / Induction Program

Organization of Conferences:-

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:-

1	Coordinator, Student Induction Program for Newly Admitted Students-2022-23 , at Department of Technology, Shivaji University, Kolhapur (Online Mode).
2	Coordinator, Student Induction Program for Newly Admitted Students-2021-22 , at Department of Technology, Shivaji University, Kolhapur (Online Mode).
3	Coordinator, Student Induction Program for Newly Admitted Students-2020-21 , at Department of Technology, Shivaji University, Kolhapur, February 02-06, 2021.
4	Coordinator, Three Week Induction Program for Newly Admitted Students-2019-20 , at Department of Technology, Shivaji University, Kolhapur, August 12-31, 2019.
5	Coordinator, Three Week Induction Program for Newly Admitted Students-2018-19 , at Department of Technology, Shivaji University, Kolhapur.

10. Orientation, Refresher, FDP, STTP

Orientation, Refresher, FDP, STTP Attended:-

Sr. No.	Course	Duration	University / Institute
1	Short Term Training Program on " E-Content Development and E-Edu Platforms"	20 th -30 th May, 2025	Iswar Saran PG College, University of Allahabad, Prayagraj under the Scheme of Malaviya Mission Teachers Training Program (MMTTP)
2	Online Short Term Training Program on "Advances in Continuum Models: Application in Science and Engineering"	21 st -25 th April, 2025	Gati Shakti Vishwavidyalaya, Central University, Under Ministry of railways, GSV Campus, Vadodara-390004, Gujarat, India.
3	National Level Faculty Development Program (FDP) on Generative AI For Effective Teaching	6 th – 11 th January, 2025	Department of Management Studies DKTES'S TEI Ichalkaranji, Maharashtra and AICTE Idea Lab

4	NCC Pre Commission Course (NCC PRCN Course)	29 July 2024 to 09 October 2024	Officer Training Academy (OTA), Kamptee, Nagpur
5	National Level Faculty Development Programme on The "Art of keeping students engaged: Gaining Mastery"	22 nd – 27 th April, 2024	MIT School of Education & Research, Pune, Maharashtra and Modern College of Professional Studies, Ghaziabad, Uttar Pradesh
6	One Week Online International FDP on "Exploring Innovations in Mathematical Modelling and its Applications"	4 th -9 th March, 2024	School of Sciences, Division of Mathematics, SRM Institute of Science and Technology, Tiruchirappalli
7	One Week FDP on "Pure and Applied Mathematics"	3 rd -9 th February, 2024	Jamal Mohamed College, Tiruchirappalli.
8	FDP on "Recent Trends in Food Processing and Preservation Technologies"	1 st -5 th January, 2022	Department of Technology, Shivaji University, Kolhapur
9	FDP on "Emerging Trends in Applied Mathematics"	6 th -10 th December, 2021	Dayananda Sagar College of Engineering
10	Short Term Course on "Linear Algebra and Its Applications"	December 20- December 24, 2020	IIT, Delhi
11	FDP on "Mathematics with MATLAB and Mathematica"	November 23-28, 2020	IIT Indore
12	Two week FDP on "ICT Based New Paradigms of E-Teaching and E-Learning : Digital Pedagogy"	September 15- September 30, 2020	Mata Sundri College for Women University of Delhi
13	Short Term Training Programme on "Linear Algebra and Statistics for Engineers and Scientists"	02 nd Sept. to 06 th Sept. 2020.	Government College Of Engineering, Aurangabad
14	Refresher Course in Recent Trends in Teaching-Learning Technologies (Mathematics)	08-28 December, 2018	Shivaji University , Kolhapur
15	Short Term Course on "Modern Cryptography"	17 th -21 st September, 2018	IIT, Kharagpur
16	Refresher course in Mathematics and Statistics	7-26, Nov. 2016	University Of Mumbai
17	Orientation Programme	22 Feb. -20 March , 2016	University of Allahabad
18	Two Week ISTE Workshop on Cyber Security	10 th July to 20 th July 2014	Department of Technology Shivaji University , Kolhapur
19	Two Week ISTE Main Workshop on Computer Programming	20 th May to 21 st June 2014	Department of Technology Shivaji University , Kolhapur
20	Two week Main Workshop On Fluid Dynamics	20 th to 30 th May 2014	D. Y. Patil College Of Engineering & Tech., Kolhapur
21	Attended 2 week ISTE workshop on "Computational Fluid Dynamics"	12 th to 22 nd June, 2012	Shivaji University , Kolhapur

11. Workshops and Seminar

Workshops & Seminars Attended:-			
Sr. No.	Course	Duration	University / Institute
1	One Week Workshop on Use of MATLAB for Online Practical's	05-09 July 2021.	Nanded
2	Online workshop on Curriculum Design as per OBE Philosophy	9-24 Feb. 2021.	Shivaji University, Kolhapur
3	National webinar on Mathematical Sciences For Everyone	29 July 2020.	Malkapur
4	National webinar on Advances in Mathematics	24-26 July 2020.	Aurangabad
5	One day workshop on "Research Methodology	18 January 2020.	Shivaji University, Kolhapur
6	One day Workshop on UGC Regulations 2018	22 July 2019.	Shivaji University, Kolhapur
7	National Workshop on NBA and NAAC Accreditation	18-22 June 2019.	Sikkim
8	Workshop for Faculty Mentors on Induction Programme	22-24, September 2017.	PEC University of Technology, Chandigarh
9	Familiarization workshop on Patents and IPR	8 February 2017.	Rajaram College, Kolhapur
10	One day workshop on LaTeX	29 August 2015.	IIT Bombay
11	One day seminar on HAZOP Management in Industry	23 July 2015.	Shivaji University, Kolhapur
12	Two day National workshop on Econometrics with Computer Applications	9, 10 March 2015.	Shivaji University, Kolhapur
13	CEP Course on Computing Techniques for solving Engineering Problems	February 18-22, 2015.	IIT Bombay and Shivaji University, Kolhapur
14	One day workshop on outcome Based Modular Syllabus	6 August 2014.	Shivaji University, Kolhapur
15	Two weeks ISTE workshop on Cyber Security	10 th to 20 th July, 2014.	IIT Bombay
16	Two Week ISTE Main Workshop on Computer Programming	20 th May to 21 st June 2014	IIT, Bombay
17	Two week Main Workshop On Fluid Dynamics	20 th to 30 th May 2014	IIT, Kharagpur
18	One day workshop on "Latex-Effective Document writing "	05 th April, 2014	Rajarambapu Institute of Technology, Rajaramnagar
19	One day workshop on "Spoken Tutorial"	29 th Jan., 2014	Department of Technology, Shivaji University, Kolhapur
20	One day workshop on "Effectiveness in teaching for organizational Excellence"	3 rd Jan., 2013.	T/P, Cell Department of Technology, Shivaji University, Kolhapur

21	Two days workshop on “Research Writing, Ethics, Plagiarism and Publishability”	26 th & 27 th July, 2012	IQAC, Shivaji University, Kolhapur
22	Two weeks ISTE workshop on “Computational Fluid Dynamics”	12 th to 22 th June, 2012.	IIT Bombay
23	Two days ISTE workshop on “Writing Effective Conference Papers”	18 th and 19 th Feb., 2012	IIT Bombay

12. Invited Talks/Resource Person/Paper Presentation in Conferences

Invited Talks/ Resource Person/Paper Presentation in Conferences:-			
Sr. No.	Title of Lecture	Title of the Program	Organized by
1	Examination Structure, Credit System, Rules (1 Session) (11.09.2025)	Student Induction Program- 2025	School of Engineering and Technology, Shivaji University, Kolhapur
2	Resource Person Ph.D. Seminar- Pharmacy 2025 (2 Seminars) (02.06.2025)	Ph.D. Course Work	Department of Technology, Shivaji University, Kolhapur
3	Resource person for Research Convention 2024-25 (Two Session) (13.12.2024)	Research Convention 2024-25	Department of Students Development, Shivaji University, Kolhapur
4	Mathematics as Language of Science (1 Lecture) (19.10.2024)	Induction Programme	Department of Education, Shivaji University, Kolhapur
5	Integral Equations (6 Lectures) (15.02.2024 to 07.03.2024)	Contact Session for M.Sc Mathematics Students	Centre for Distance Education, Shivaji University, Kolhapur
6	Resource Person Ph.D. Seminar- Pharmacy 2023 (Two Sessions) (14.12.2023)	Ph.D. Course Work	Department of Technology, Shivaji University, Kolhapur
7	LATEX-Effective Document Writing (1 Lecture) (12.12.2023)	Engineering and Pharmacy - Ph.D Course Work 2023	Shivaji University, Kolhapur
8	Resource Person for ICFAST-2023 (09.11.2023)	International Conference on Frontier Areas of Science and Technology (ICFAST-2023)	Shivaji University, Kolhapur
9	Mathematics for Engineers (27.09.2023)	Regional Children Science Congress 2023	Jawahar Navodaya Vidyalaya, Kagal Kolhapur
10	Mathematical Modeling, Analysis and Simulation of Magnetorheological Fluid Dampers (10.12.2022)	International Conference on “Advanced Technologies for Societal Applications: Techno-Societal 2022”	Shri Vithal Education & Research Institute (SVERI), Pandharpur

11	Classical Mechanics (2 Lectures) (15.07.2021)	Contact Session for M.Sc Mathematics Students	Distance Education, Shivaji University, Kolhapur
12	Classical Mechanics (2 Lectures) (17.10.2019)	Counseling for M.Sc Mathematics Students	Distance Education, Shivaji University, Kolhapur
13	Quantitative Methods and Regression Analysis (2 Lectures) (11.05.2019)	Ph.D Course Work	Department of Education, Shivaji University, Kolhapur
14	Advantages of Flipped Classroom in Technical Education (05.04.2019)	National Multi- disciplinary conference on Outcome based Education : Issues and Challenges	Shivaji University, Kolhapur
15	Introduction of Matlab and its applications in mathematics (7 Lectures) (25.06.2018 to 30.06.2018)	Short term Course	Department of Mathematics Shivaji University, Kolhapur
16	Vector Space And Linear Mapping For Electrorheological Fluid (22.02.2018)	International Conference on Advances in Mathematics, Computers & Physical Sciences	IMRF
17	Mathematical modeling of semi- active suspension of MR damper in presence of Uniform magnetic field (14.12.2017)	IMRF	V.V. Vanniaperumal college of women, Tamilnadu
18	Magnetorheological Dampers (27.12.2016)	82 nd Annual conference of IMS	University of Kalyani
19	Mathematical Modeling and Design of MR Fluid Damper for Vibration Control and Suspension (26.11.2015)	International conference on Mathematics	University of Kerala
20	"Constitutive Equations for MR Fluid Damper" (14.02.2014)	National Conference on Differential Equations and Applications	University of Mumbai
21	Mathematical Modeling for dynamics of smart materials (27.12.2012)	National conference on Emerging Technologies for sustainable developments	Shivaji University
22	Applications of Differential Equations (16.01.2010)	National conference on "Mathematical Aspects of Physical concepts and Physical Aspects of Mathematical Concepts"	Shri. S. H. Kelkar College of Arts, Commerce and Science

13. Membership

1	Life Member of IMS
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