

Name Dr. SANJAY B. KULKARNI
M.Sc., P.G.D.C.A., Ph. D.

Date of Birth 15/07/1972
Highest Qualification Doctor of Philosophy
Branch / Specialization **Applied Mathematics**
Designation Professor & Head
Department First Year Engineering
(Science & Humanities)
Date of Joining the Institute 13/07/1998



Academic Appointments

Name of the University / Institute	Duration	Designation
	From 01/11/2015 to till date	Professor
	From 1/12/2011 to 1/11/2015	Associate Professor
Finolex Academy of Management and Technology, Ratnagiri	From 1/07/2009 to 1/12/2011	Assistant Professor
	From 1/07/2004 to 1/07/2009	Sr. Lecturer
	From 13/07/1998 to 1/07/2004	Lecturer
Maharashtra College of Engineering, Nilanga	From 1/08/1995 to 13/07/1998	Lecturer
Total Experience – 21 Years		

Papers Published in International / National Journals and Conferences

1. Forced oscillations of electrical conducting fluid under the influence of applied magnetic field on the porous boundary has been accepted and will be published in **International Journal of Engineering Mathematics**.
2. Numerical Investigation of unsteady flow of an incompressible elastic-viscous fluid in a tube of spherical cross section on a porous boundary has been accepted and will be published in **International Journal of Engineering and Applied Sciences**.
3. Unsteady MHD elastic-viscous fluid flow of second order type in tube of hyperbolic cross

section on a porous boundary is published in science research association **International Journal of Mechanics, 1(1), October, 2016, pp. 48-63.**

4. Effect of mass flow rate on unsteady fluid flow in a tube of hyperbolic cross section is published in **International Journal of Innovative Research and Development, 1(1), 2016, pp. 8 – 15.**
5. Unsteady poiseuille flow of second order fluid in a tube of hyperbolic cross section on the porous boundary. Accepted for publication in **Asian Journal of Convergence in Technology and Published in the proceeding of 2nd National conference on Recent Advances in science and Technology, February 17th & 18th, 2016.**
6. Forced oscillations of elastic-viscous fluid under the influence of applied magnetic field on the porous boundary has been **accepted** for publication in **Asian Journal of Convergence in Technology and Published in the proceeding of 2nd National conference on Recent Advances in science and Technology, February 17th & 18th, 2016.**
7. On the class of exact solutions of MHD boundary layer flow of second order type by creating forced oscillations on the porous boundary is published **International Journal of recent Advances in Engineering & Technology, 4(8), 2016, pp. 1 – 8.**
8. Unsteady MHD Flow of an Incompressible Fluid in a Tube of Spherical cross section with angle of inclination on a porous Boundary. Published in **International Journal of Latest Research in Science and Technology, 4 (6), pp. 1-7.**
9. Numerical Investigation of Unsteady MHD Flow of Second Order Fluid in a Tube of Elliptical Cross- section on the porous boundary. Published in **International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering, 9(9) No. 9, 2015, pp. 510 – 518.**
10. On the class of exact solutions of MHD boundary layer flow of second order type by creating sinusoidal disturbances on the porous boundary. Published in **International Journal of Applied Computational Mathematics, 4(5).1000246.**
11. Unsteady MHD Flow of an Incompressible Fluid in a Tube of Spherical cross section on a porous Boundary. Published in **International Journal of Mechanical Aerospace Industrial and Mechatronics Engineering, 9(4), 2015, pp. 601 – 607.**
12. Unsteady MHD flow of elastico – viscous incompressible fluid through a porous media between two parallel plates under the influence of magnetic field. Published in **Journal of**

13. Unsteady flow of an incompressible elastico – viscous fluid of second order type in tube of ellipsoidal cross section on a porous boundary. Published in **International Journal of Mechanical Aerospace Industrial and Mechatronics Engineering**, 9(2), 2015, pp. 359 – 364.
14. Unsteady Poiseuille Flow of Second order fluid in a tube of Elliptical cross section with an angle of inclination of the plane with horizontal on the porous boundary. Published in the proceedings of **International National conference on Ethical Prospects Economy, Society and Environment 13th & 14th March, 2015 (EPESE-2015)**.
15. Unsteady Poiseuille flow of an Incompressible elastico – Viscous fluid in a tube of Spherical cross section on a porous boundary. Published in **International Journal of Mechanical Aerospace Industrial and Mechatronics Engineering**, 9(2), 2015, pp. 240 – 246.
16. Unsteady flow of an incompressible viscous electrically conducting fluid in tube of elliptical cross section under the influence of magnetic field. Published in **International Journal of Mathematical Computational, Physical and Quantum Engineering**, 8(10), 2014, pp 1311-1317.
17. Unsteady poiseuille flow of second order fluid in a tube of elliptical cross section on the porous boundary. Published in **International journal of Special Topics & Reviews in Porous Media**, 5(2), 2014, pp. 269-276.
18. Elastico Viscous Fluid Flow between two parallel plates with the lower plate possessing natural permeability. Advances in Heat and Mass Transfer (AHMT-09), FAMT, Ratnagiri. Published in the proceedings of **National conference on Advances in Heat and Mass Transfer (AHMT-09)**.
19. On the characteristic performance of elastico-viscous fluid past an infinite plate with variable section under the influence of magnetic field. Published in the proceedings of 34th **National conference on Fluid Mechanics and Fluid Power**.
20. On the characteristic performance of second order fluid flow between two parallel porous plates when the pressure gradient varies sinusoid ally. Published in the proceedings of 3rd **International 33rd National conference on Fluid Mechanics and Fluid Power, IIT Bombay**.

21. Critical study of an elastico - viscous fluid past an infinite plate with variable suction. Published in the proceedings of **Fluid Mechanics and Fluid power 32nd FM&FP B12-1 to B 12-7**.
22. Viscous flow through a porous medium past an oscillating plate in a rotating system with magnetic Effects. An **International Research Journal of Material Sciences**. Published in **Vol. 3(2), Dec 2005, pp. 179 – 186**.
23. Unsteady laminar flow of second order fluid between two porous parallel plates. Accepted for publication in **International Journal of Combinatorics, Information & System Sciences**.
24. Effect of Load and Eccentricity Parameters on the Performance Index of Porous Bearings. Published in **Journal of the Institution of Engineers (India) Vol.87, October 2006, pp 13 – 17**.
25. Flow of an elastico-viscous fluid past an infinite plate with variable suction. **Published in Defence Science Journal Vol.57, July 2007, No.4 pp. 549-556**.
26. On the class of exact solutions of an incompressible fluid flow of second order type by creating forced oscillations on the porous boundary. Published in **Defence Science Journal Vol.57, March 2007, No. 2 pp. 197-209**.
27. On the class of exact solutions of an incompressible fluid flows of second order type by creating sinusoidal disturbances. Published in **Defence Science Journal. Vol.56, November 2006, pp.733-741**.
28. Unsteady laminar flow of visco - elastic Fluid of second order type between two parallel plates. Published in **Indian Journal of Materials Science Vol. 12, February 2005, pp. 51-57**.

Papers Presented in International / National Conferences

1. Presented a paper "Forced oscillations of elastic-viscous fluid under the influence of applied magnetic field on the porous boundary" in 2nd National conference on Recent Advances in science and Technology, February 17th & 18th, 2016.
2. Presented a paper "Unsteady poiseuille flow of second order fluid in a tube of hyperbolic cross section on the porous boundary" in 2nd National conference on Recent Advances in

science and Technology, February 17th & 18th, 2016.

3. Presented a paper entitled "On the class of exact solutions of MHD boundary layer flow of second order type by creating forced oscillations on the porous boundary" in **International Conference** on Recent Trends in Computing communication and Science, **January 08th & 09th, 2016**.
4. Presented a paper entitled "Unsteady MHD Flow of an Incompressible Fluid in a Tube of Spherical cross section with angle of inclination on a porous Boundary" **International conference** on Mathematical Sciences September **15th & 16th, 2015**.
5. Presented a paper entitled "On the class of exact solutions of elastico – viscous fluid in a tube of elliptical cross section over an inclined rigid plane on the porous boundary". **International Conference** on Ethical Prospects Economy, Society and Environment organized by Ratnagiri Sub-Centre, University of Mumbai In association with ICSSR-WRC, Mumbai, on **March, 13th & 14th 2015**.
6. Presented a paper entitled "On the class of exact solutions of an incompressible fluid flow of second order type by creating sinusoidal disturbances under the influence of magnetic field " National Conference on Recent Advances in Applied Mathematics (NCRAAM-2014) organized by Department of mathematics, Gulbarga University of Gulbarga, on **September , 11-12, 2014**.
7. Presented a paper entitled "Unsteady flow of a viscoelastic fluid through a porous media between two impermeable parallel plates under the influence of magnetic field "National Conference on Differential Equations and Applications organized by Department of mathematics, University of Mumbai, on **February, 14-15, 2014**.
8. Presented a paper entitled "Un steady laminar flow of second order fluid between two porous parallel plates" was presented at 14th **International Conference** on computational methods and Applications to be held at **IIT Madras**.
9. A paper entitled "On the characteristic performance of second order fluid flow between two parallel porous plates when the pressure gradient varies sinusoid ally" was presented at 3rd **International** 33rd **National** conference on Fluid Mechanics and Fluid Power, **IIT Bombay**.
10. A paper entitled "On the characteristic performance of elastico-viscous fluid past an infinite plate with variable suction under the influence of magnetic field" was presented at **International Symposium** On Recent Advances In Mathematics & Its Applications held at

11. Presented a paper entitled "Critical study of an elastico – viscous fluid past an infinite plate with variable suction" at 32th FM&FP held at Osamanabad college of Engineering – India

Number of Workshops, STTPs Attended

1. Attended the two-week ISTE workshop on Cyber Security Conducted by Indian institute of Technology from **10th Jul to 20th Jul** 2014, Bombay.
2. Attended the two-week ISTE workshop on " Control Systems " Conducted by Indian institute of Technology from **16th Jun to 25th Jun** 2014, Bombay.
3. Attended the two-week ISTE workshop on " Computer Programming " Conducted by Indian institute of Technology from **2nd Jan to 12th Dec** 2014, Bombay and **Kharagpur**.
4. Attended the two-week ISTE workshop on " Engineering Mechanics " Conducted by Indian institute of Technology from **26th Nov to 06th Dec** 2013, Bombay.
5. Attended the two-day workshop on "Research in Educational Technology" Conducted by Indian institute of Technology from **2nd February to 9th February** 2013, Bombay.
6. Attended the two-day workshop on "Aakash for Education" Conducted by Indian institute of Technology from **10th November to 11th November** 2012, Bombay.
7. Attended the One – Day Orientation Program on Applied Mathematics Sem -I & II conducted on behalf of University of Mumbai at K. J. Somaiya College of Engineering on 6th Sep, 2012.
8. Attended the One – Day workshop on Question Paper Bank conducted on behalf of University of Mumbai at K. J. Somaiya College Engineering on 21st July, 2012.
9. Attended the One – Day workshop on Credit Based Examination conducted on behalf of University of Mumbai at Thadomal Shahani Engineering College on 06th Aug, 2012.
10. Attended the two-week ISTE workshop on "Introduction to research Methodologies"

Conducted by Indian institute of Technology from **25th June to 04th July** 2012, Bombay.

- 11.** Attended the workshop on "Using soft tools for teaching methodologies in engineering mathematics" from **28th Apr- 3rd May 2008** offered by **V.I.I.T. Pune**.
- 12.** Attended the **National Summer School** 2006, from **15th – 27th May 2006** offered by Sinhgad College of Engineering, Pune.
- 13.** Three day workshop on **Unix** offered by Finolex Academy of Management & Technology Ratnagiri, Aug 12-13, 2006.
- 14.** Three day workshop on Latex offered by Finolex Academy of Management & Technology Ratnagiri on Dec, 9 – 11, 2004.
- 15.** Recent Mathematical Techniques for Industry with a Special Focus on Nanotechnology offered by **Indian Institute of Technology Kharagpur. Dec 5-11, 2005.**

Reviewer for International/National Journals/Books Published

- 1.** Published International Book **Elastico-Viscous fluid flows** By LAMBERT Academic Publishing GmbH & Co. KG Dudweiler LandstraBe 99 66123 Saarbrücken **Germany**.
- 2.** Worked as a member of editorial board of Lawrence Press.
- 3.** Worked as a member of editorial board World Scientific and Engineering Academy and Society.
- 4.** Worked as a member of editorial board World Academy of Science Engineering and Technology.
- 5.** Worked as a Reviewer for **International journal of Porous Media**.
- 6.** Worked as a Reviewer for **Defense Science Journal India**.
- 7.** Worked as a Reviewer for **Journal of the Institution of Engineers (India)**.

Membership in Professional Bodies

1. Indian Society for Technical Education (ISTE), New Delhi Life Member Since, 1998.
2. Indian Society of Theoretical and Applied Mechanics IIT, Kharagpur Life Member from Dec, 2005.
3. World Academy of Science Engineering and Technology. International Scientific committee PO BOX 982, Riverside, Connetticut, CT 06878, USA.
4. Member of International Biographical Centre, Cambridge, England.
5. Member of World Scientific and Engineering Academy and Society.

Seminars/Lecture/ Invited Talks Delivered As Resource Person

1. Convener of 2nd National conference on Recent Advances in science and Technology, February **17th & 18th, 2016**.
2. Delivered Seminar on "Choice Based Credit Grading System" for First Year Engineering on 8th Aug, 2016
3. Conducted Seminar on "Credit Based Grading System" for First Year Engineering students.
4. Delivered Seminar on "**Credit Based Grading System**" on Aug, 2012 at Finolex Academy of Management and Technology, Ratnagiri.
5. Worked as a Resource Person and delivered seminar on "**How to write Research Paper**" on December 2nd 2015 at Finolex Academy of Management and Technology, Ratnagiri.

Awards / Honours / Prizes

1. Top 100 Professionals of 2015 by International Biographical Centre, Cambridge London.
2. 2000 Outstanding intellectuals of 21st Century ~ 9th Edition (2015) by International Biographical Centre, Cambridge London.

3. The Da Vinci Diamond for Inspirational Accomplishment by International Biographical Centre, Cambridge London.
4. Aland Sri by S. R. Foundation, Aland 2015.
5. Appreciation letter dated 06/12/2016 by Principal FAMT, Ratnagiri.
6. Appreciation letter dated 20/11/2015 by Principal FAMT, Ratnagiri.
7. Appreciation letter dated 02/10/2015 by Principal FAMT, Ratnagiri.
8. Appreciation letter dated 07/03/2011 by Director FAMT, Ratnagiri.

NIL

College Exam Duties - Type of Work

1. Worked as a **CAP coordinator** for the 2011 paper assessment of Engineering cluster CAP of University of Mumbai at **FAMT CAP**.
2. Worked as a **Chief Conductor** for conducting the Examination of **University of Mumbai in 2000, 2002 and 2005** at Finolex Academy of Management & Technology, Ratnagiri.
3. Worked as a **Senior Supervisor** of **Engineering Examination of University of Mumbai, 2010 & 2006** at Finolex Academy of Management & Technology, Ratnagiri.
4. Carried out exam related duties such as **Convener, Paper Setter, Moderator, Examiner and External Examiner** as pointed by Board of Examination, University of Mumbai.
5. Worked as **Subject Expert** for **USSC** selection of faculty in Applied Mathematics, University of Mumbai.