

RESUME



Dr. J. SHARANA BASAVARAJA

Date of Birth: 17-07-1972

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Academic Background

Teaching Experience : 25 Years

Qualifications	Board / IIT / University	Institute and place where studied	Year of passing
Ph.D	IIT, Roorkee	IIT, Roorkee	2010
ME	Bangalore University	B.M.S.College of Engineering, B'lore	2002
BE	Bangalore University	B.M.S.College of Engineering, B'lore	1995
PUC / 10+2	P.U.E.B	Sri Siddaganga College, Tumkur	1990-91
SSLC	K.S.E.E.B	Sri Siddaganga High School, Siddaganga Mutt, Tumkur	1988-89

Objective

- As an experienced teacher, I would like to devise captivating, fascinating, and unique practices of teaching that creates interest in the students. With the help of my cordial nature, I would like to build good rapport with students as well as teachers around me.

Professional Excellence Summary

- Have over *Twenty Five years* experience in teaching at college level.
- Have experienced as the education counselor at B M S College of Engineering, Bangalore.
- Have experienced with teaching Post-Graduate level course since 2008.
- Have attended various short terms courses to excel in teaching and administrative management.
- Have known well as an author, teacher, lecturer along with as a debater.
- Implemented various methods to develop relations between the students, teaching stuffs and administrative stuffs.

Professional Background

2010- Present date: Works as a associate professor at B M S College of Engineering, Bangalore
With the following work responsibilities

- Implemented and developed several labs and experimental setups to the students of the B M S College of Engineering, Bangalore.
- Provided necessary education counseling as the education advisor to the students.
- Provided numbers of lectures on Tribology.
- Have handled various design subjects for Post-Graduate students in Machine Design specialization.
- Have done number of researches of special subjects outside the course curriculum.
- Acted as a member of Board of Studies for Karnataka State Open University, Karnataka.
- Have coordinated the practical exams of Visveswaraya Technological University, Belgaum, Karnataka during year 2010-11.
- Guided around 30 Post-Graduate Level students for final year projects.

Research Background

- Have three years of research experience at Indian Institute of Technology Roorkee, Roorkee.
- Attended number of technology conferences and presented papers.
- Published around 50 research papers (list enclosed).
- Acted as reviewer for various conferences.

Brief Bio-Data of Dr. J. Sharana Basavaraja

Dr. J. Sharana Basavaraja, Ph.D in Machine design from IIT Roorkee is Assistant Professor in B. M. S College of Engineering, Banglaore. He has 25 years of teaching experience. His area of research is Tribology, Smart fluids, Hybrid journal bearings. He has published 9 papers in the International refereed journals and presented 40 papers in the international conferences. He is actively involved in teaching of PG course in Machine Design. List of published papers is enclosed.

International Journal:

1. Janardhan R, Nikhil Magdum, **J Sharana Basavaraja** and Arunachala U C, “ CFD Analysis of two-PCB Architecture for the Application in Data Storage Industry”, International Journal of Scientific & Engineering Research Volume 9, Issue 5, May-2018.
2. Sharth B N, **J. Sharana Basavaraja** and Shivashankar R Srivatsa “Effect of Orientation of Semi-Elliptical Crack in a Turbine Blade on Stress Intensity Factor” ISME Journal of Mechanics and Design, Vol. 1, No. 2, PP. 1-10, 2017.
3. Manik Rao Kulkarni , Vivek Prabhakar and **J. Sharana Basavaraja** “Static Shape Control of Spacecraft Structural Elements Using Piezoelectric Actuators”, International Journal of Analytical, Experimental and Finite Element Analysis, Vol. 1 N. 2, 2014.
4. P R Praveen, T. S. Sriranga, H. Abdul Hameed, and **J. Sharana Basavaraja**, “Mechanical Performance of Test Fixture During Thermo Elastic Deformation Studies”, International Journal of Engineering Research and Technology, Vol. 2, N. 11, pp 2432 – 2435, November 2013.
5. **J. S. Basavaraja**, Satish C. Sharma, and S.C. Jain, “The Study of ER Fluid Lubricated Misaligned Hole--Entry Hybrid Journal Bearing”, Tribology International, Vol 43, pp 1059 - 1064, 2010.
6. **J. S. Basavaraja**, Satish C. Sharma, and S.C. Jain, “Study of Misaligned Roughened Multi-Lobe Hybrid Journal Bearing”, Industrial Lubrication and Tribology, Vol. 61, N. 4, pp. 220-227, 2009.
7. **J. S. Basavaraja**, Satish C. Sharma, and S.C. Jain, ‘Performance of an Orifice Compensated Two Lobe Hole – Entry Hybrid Journal Bearing’, Advances in Tribology, Volume 2008, Article ID 871952, 10 pages, doi:10.1155/2008/871952, 2008.
8. S. C. Jain, Satish C. Sharma, **J.S. Basavaraja** and Prasanth K, ‘Study of Two-Lobe Four Recessed Hybrid Journal Bearing’, Industrial Lubrication and Tribology Vol. 62(6), pp.332 – 340, 2010.
9. Satish C. Sharma, S.C. Jain, **J. S. Basavaraja** and Neeraj Sharma ‘Influence of pocket-size on Misaligned Hole-Entry Journal Bearing’, Industrial Lubrication and Tribology, Vol. 62(5), pp.263 – 274, 2010.

National Journal:

10. **J. S. Basavaraja**, S. C. Jain and Satish C. Sharma, ‘Constant Flow Valve Compensated Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid’, Indian Journal of Tribology, Vol. 4, No. 1, 2009, pp 43 – 51.

11. Balasubramanya H S, **J. Sharana Basavaraja** and S. Srinivas, "Investigation on Two Body Abrasive Wear Behaviour of TiB₂ Reinforced Aluminium Metal Matrix Composites", Indian Foundry Journal, Vol 62, No. 16, Dec 2016.

International Conference:

12. **Sharana Basavaraja J.**, S.C. Jain, and Satish C. Sharma, 'Performance of a Multilobe Hole –Entry Hybrid Journal Bearing', International Conference on Industrial Tribology, held on Nov. 30 – Dec. 02, 2006, IISc Bangalore, pp. 135 – 146, 2006.
13. Prashant Kushare, Satish C. Sharma, S.C. Jain and **Sharana Basavaraja J.**, 'Performance of Two Lobe Multirecess Hybrid Journal Bearing Compensated With Capillary Restrictor', Proc. of STLE/ASME Internaitonal Joint Tribology Conference (IJTC2007), held on October 22 – 24, 2007, San Diego, California, USA, Paper No. 44433.
14. T. Nagaraju, **Sharana Basavaraja J.**, S.C. Jain, and Satish C. Sharma, 'A Study of Orifice Compensated Multilobe Hole – Entry Hybrid Journal Bearing', Proc. of 21st Biennial Conference on Mechanical Vibration and Noise (IDETC 2007), held on September 04 – 07, 2007, Las Vegas, Nevada, USA, Paper No. 35923.
15. S.C. Jain, Satish C. Sharma, **J. S. Basavaraja** and Pranshat Kushare, 'A Study of Two Lobe Four Recessed Compensated Hybrid Journal Bearing System', Proc. of 63rd STLE Annual Meeting, Scheduled to be held at Cleaveland Ohio, USA, May 18 – 22, 2008, Abstract ID No. 393860.
16. Satish C. Sharma, S.C. Jain, **J. S. Basavaraja**, and Neeraj Sharma, 'Combined Influence of Pocket Size and Journal Misalignment on the Performance of Hole – Entry Hybrid Journal Bearing System', Proc. of 63rd STLE Annual Meeting, held at Cleaveland Ohio, USA, May 18 – 22, 2008, Abstract ID No. 393906.
17. **J. S. Basavaraja**, Satish C. Sharma, and S.C. Jain, 'A Simulation Study of Rough Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid,' IC-ICAME Conference held at IISc Bangalore, July 2-4, 2008.
18. **J. S. Basavaraja**, S.C. Jain and Satish C. Sharma, 'The Effect of Journal Misalignment on the Performance of Non-Recessed Hybrid Journal Bearing Lubricated With ER Fluid', Proceedings of Twelfth Nonlinear Vibrations, Dynamics, and Multibody Systems, June 1-5, 2008, Virginia Tech, Blacksburg, VA(USA).
19. **J. S. Basavaraja**, S.C. Jain and Satish C. Sharma, 'A Study of Smart Fluid Lubricated Non-Recessed Hybrid Journal Bearing', Presented at Fifth ISSS International Conference on Smart Materials, Structures and Systems' Scheduled held at IISc Bangalore, July 24-26, 2008, Paper No. 81.

20. **J. S. Basavaraja**, Satish C. Sharma, and S.C. Jain, 'The Effect of Geometry on the Performance of the Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid', Proc of 11th Conference on Electrorheological Fluids and Magnetorheological Suspensions, held at Technical University Dresden, Germany, Aug 25-29, 2008.
21. Satish C. Sharma, **J. S. Basavaraja** and S.C. Jain, 'A Comparative Study on the Performance of Circular, Two-Lobe and Three-Lobe Hole-Entry Hybrid Journal Bearing', Proc of ICIT 2008 Conference held at New Delhi, Nov 6-8, 2008.
22. S. C. Jain, **J. S. Basavaraja** and Satish C. Sharma, 'Performance of a Misaligned Two Lobe Hole-Entry Hybrid Journal Bearing', Presented at ICIT 2008 Conference Scheduled at New Delhi, Nov 6-8, 2008.
23. **J. S. Basavaraja**, S.C. Jain and Satish C. Sharma, 'Constant Flow Valve Compensated Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid', Presented at ICIT 2008 Conference held at New Delhi, Nov 6-8, 2008.
24. **J. S. Basavaraja**, Satish C. Sharma, and S.C. Jain, 'The Study of ER Fluid Lubricated Misaligned Hole-Entry Hybrid Journal Bearing', Presented at 2nd International Conference on Advanced Tribology 2008, held at National Singapore University, Singapore, Dec 3-5, 2008.
25. **J. S. Basavaraja**, S. C. Jain and Satish C. Sharma, "Influence of ER Fluid Lubrication on the Performance of a Rough Hole-Entry Hybrid Journal Bearing System" Proc of IUTAM Symposium on EMERGING TRENDS IN ROTOR DYNAMICS" held at IIT Delhi March 23-26, 2009.
26. **J. Sharana Basavaraja**, H.K. Rangavittal, B.S.Suresh, and Mohammed yakub S.L, "Effect Of Axis Ratio On The Stresses Around An Elliptical Cutout In Laminated Composite Pressure Vessel", NAME 2004,12-14,Oct.2010,JNNCE,Shimoga.
27. B. S. Suresh, **J. Sharana Basavaraja**, H. K. Rangavittal and Mohammed Yakub, "Influence of Axis Ratio on the Stresses around an Elliptical Cutout and Inclusion in a Filament Wound Fibre Reinforced Plastic Pressure Vessel". 11th National and 1st International Conference on Technological Trends 25 to 27 November 2010, Trivandrum, India.
28. Rajesh. G, Sundresh. L and **J. Sharana Basavaraja**, "Design and Fabrication of Portable Dry Areca Nut Peeling Machine" Joint International Conference on Advanced Materials 2011, held August, 19-20th at BTLIT, Bangalore.
29. E. Sujith Prasad, K. M. Jagadeesha, T. Nagaraju and **J. Sharana Basavaraja**, "Steady State Non-Newtonaian THD Analysis of Journal Bearing Considering 3D surfaces Roughness and Fluid Inertia Effects." Presented at ICIT 2008 Conference held at Pune, Dec 7-9, 2012.

30. Rajalakshmi S, **J. Sharana Basavaraja**, Y. S. Rammohan and B. S. Suresh, "Analysis, Simulation of Optimization of Piezoelectric Microactuator" Presented at International Conference on Emerging Technologies – Micro to Nano 2013, Feb, 23 – 24, 2013, BITS Pilani, Goa, India.
31. Srikanth K. M, **J. Sharana Basavaraja**, B. S. Suresh and H. K. Rangavittal, Analysis and Optimization of MEMS Electrostatic Actuator." Presented at International Conference on Emerging Technologies – Micro to Nano 2013, Feb, 23 – 24, 2013, BITS Pilani, Goa, India.
32. MD Nasir Ali, B. S. Suresh and **J. Sharana Basavaraja**, "Modelling of Z-Axis Capacitive MEMS Accelerometer for Pull-in Analysis." Presented at International Conference on Emerging Technologies – Micro to Nano 2013, Feb, 23 – 24, 2013, BITS Pilani, Goa, India.
33. **J. Sharana Basavaraja** and Sayad M Shanawaz Mujawar, "Modelling, Simulation and Analysis of Gripping Force Loss in High Speed Power Chuck", International Conference on Advances in Manufacturing and Materials Engineering, AMME 2014, held at NIT K Surathkul, during 27th to 29th March, 2014.
34. Balasubramanya H S, **J. Sharana Basavaraja** S. Srinivas and Ravi Kumar V, "Wear rate behavior of As-cast and heat treated hybrid Aluminum Metal Matrix Composites", International Conference on Advances in Manufacturing and Materials Engineering, AMME 2014, held at NIT K Surathkul, during 27th to 29th March, 2014.
35. **J. Sharana Basavaraja**, Somashekar H Hegde and Nagaraja R, "Design Development and Testing of Multipurpose Gardening Land Cultivator" International Conference On Advances In Production And Industrial Engineering 2015, NIT Trichy.
36. **J. Sharana Basavaraja**, Nagaraja R and Somashekar H Hegde, "Design and Development of Areca Tree Climber" International Conference On Advances In Production And Industrial Engineering 2015, NIT Trichy.
37. Hanamappa mang, Ajaz Ahmed Bhat, **J. Sharana Basavaraja** and P P Krishanpur, "Vibration Analysis Three Bed Onboard Oxygen Generating Systems bed", Presented at International Conference on Recent Trends in Engineering and Material Sciences [ICEMS – 2016], at Jaipur National University, Jaipur during March 17- 19, 2016.
38. **J. Sharana Basavaraja**, S Srinivas, Balasubramanya H S and Nishanth Gowda N "Comparative studies on synthesis and characterization of Epoxy and Polyester reinforced with Glass fibres" Presented at International Conference on Advanced Materials and Applications" held at B M S College of Engineering, Bangalore, during 15th – 17th June 2016.

39. **J Sharana Basavaraja**, Manjunath C and Mahesh P, “Bearing Field Failure Analysis”, Presented at National Conference on Industrial Tribology, held at IIT BHU, During Dec, 8th to 10th 2016.
40. Rajesh P, **J Sharana Basavaraja**, Mahanthesha M and Nataraj T V, “ Static Analysis of Three Row Finger Seal and Prediction of Theoretical Leakage Flow Rate” Presented at National Conference on Industrial Tribology, held at IIT BHU, During Dec, 8th to 10th 2016.
41. Hanamappa Mangpr, Ajaz Ahmed Bhatcr, P. P. Krishnapur, Rajkumar S, T.M. Kotresh, U.K. Singh and **J Sharana Basavaraja** “Study Of Vibration Analysis Of Air Filter And Pressure Regulating Valve Assembly Using Finite Element Analysis And Experimental Methods” Presented at International Conference on Vibration Problems, held at IIT Guwahati, During Dec, 2nd to 6th 2017.
42. **J Sharana Basavaraja**, Rajesh P and V. Arun Kumar “Leakage Flow Analysis of Padded Seal for a Gas Turbine Application” Presented at International Conference on Industrial Tribology, held at Kolkata, During Dec, 6th to 9th 2017.
43. Rajesh P, **J Sharana Basavaraja**, and V. Arun Kumar “Stiffness variation Study of fingers in finger seal” ” Presented at International Conference on Industrial Tribology, held at Kolkata, During Dec, 6th to 9th 2017.
44. Kumar Swamy M B and **J Sharana Basavaraja** “Behavior of Stress Intensity Factor of Semi-elliptical crack at different orientations subjected to thermal load” Presented at International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST) – PDME 2018, held at Govt. Engg College, Thirssur, January, 18th to 20th 2018.
45. Aprameya C and **J Sharana Basavaraja**, and Rajesh P, “ Study on Mass Flow Rate in Labyrinth Seal using CFD Analysis”, Presented at 5th International Conference on Applied Science Engineering and Technology_(ICASET-18) 2018 held at Shridi Sai College of Engineering, Bangalore, 17th-18th May 2018.
46. Raghuram R and **J Sharana Basavaraja** “ Design and development of Potato Peeling Attachment”, Accepted for presentation at Interantional Conferecne at KSSEM, Benagloru, during Oct 2018.
47. Ravi Kumar and **J Sharana Basavaraja**, ” Design and Development of the Pedal Operated Forage Chopping Machine for Cattles”, Accepted for presentation at Interantional Conferecne at KSSEM, Benagloru, during Oct 2018.

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