**SATISH C. SHARMA**

Professor in Mechanical Engineering &

Chair Professor in Railway Vehicle Dynamics,

Coordinator, Centre for Railway Research

Mechanical & Industrial Engineering Department   
Indian Institute of Technology, Roorkee.  
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**Educational Qualifications:**

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| --- | --- | --- | --- | --- |
|  | **Degree** | **Branch/Specialization** | **Year** | **Institute/University** |
| 1. | B.E. | Mechanical Engineering | 1980 | University of Roorkee |
| 2. | M.E. (Hons.) | Mechanical Engg. (Machine Design) | 1982 | University of Roorkee |
| 3. | Ph.D. | Tribology | 1990 | University of Roorkee |
| 4. | Visiting Fellow | Mechanical Engineering  (Leverhulme Visiting Fellow) | 1994-95 | University of Surrey, Guildford, (U.K.) |

**Employment Details:**

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| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Post held** | **Pay Scale** | **Nature of duties, Duration** | **Experience (In Years and Months)** | **Organization** |
| 1 | Professor | Rs. 37,400-67,000/-   * AGP 10,500/- * HAG | Teaching +Research   * (22/10/2003 to 31/12/2012) * 01/01/2013 to this date | (17 Years 06 months) | I.I.T Roorkee |
| 2 | Chair Professor (Railway Vehicle Dynamics) | ----------- | Research   * 05/09/2012 to 04/09/2015 * 19/07/2018 to this date | (5Years 07 months) | I.I.T Roorkee |
| 2 | Associate Professor | Rs. 16,400-20,000/- | Teaching +Research  (25/06/2001 to 21/10/2003) | (02 years 04 months) | I.I.T Roorkee/ University of Roorkee |
| 3 | Assistant Professor | Rs. 3,700-5,700/- | Teaching +Research  (09/04/1996 to 24/06/2001) | (05 Years 02 months/ | University of Roorkee |
| 4 | Lecturer | Rs. 700-1,600/- | Teaching +Research  (18/08/1984 to 08/04/1996) | (11 Years 07 months) | University of Roorkee |
| 5 | Teaching Assistant | Rs. 950/pm Consolidated | Teaching +Research  (1982-1984) | (02 Years) | University of Roorkee |

**Administrative Experience/Post(s) & Responsibilities held**

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| **S. No.** | **Post** | **Organisation/ University** | **Duration** | | **Experience (In Year and Months)** |
| **From (Date)** | **To (Date)** |
| **1.** | Head of the Department, Mechanical & Industrial Engg. | IIT Roorkee | 01/01/2010 | 31/12/2012 | 3 Years |
| **2.** | Associate Dean of Faculty Affairs | IIT Roorkee | 01/01/2007 | 31/12/2009 | 3 Years |
| **3.** | Dean of Alumni Affairs, | IIT Roorkee | 01/01/2013 | 08/05/2014 | 1 Years 4 Months |
| **4.** | Member, Board of Governors | IIT Roorkee | 01/01/2018 | 31/12/2019 | 2 Years |
| **5.** | Member, Finance Committee | IIT Roorkee | 01/01/2018 | 31/12/2019 | 2 Years |
| **6.** | Chief Vigilance Officer | IIT Roorkee | 23/10/2015 | 22/10/2018 | 3 Years |
| **7.** | Coordinator, Centre for Railway Research | IIT Roorkee | 01/05/2014 | To date | 5 Years 6 Months |
| **8.** | Member, Deptt. Professorial Committee, Mechanical & Industrial Engineering Department | IIT Roorkee | Oct. 2003 | Oct.2006 | 3 Years |
| **9.** | Member , Institute Building Works Committee | IIT Roorkee | 01/01/2011 | 31/12/2012 | 2 Years |
| **10.** | Vice President-Adarsh Bal Niketan Sr. Sec. School | IIT Roorkee | 2009 | 2012 | 3 Years |
| **11.** | Member, Deptt. Professorial Committee, Institute Instrumentation Centre, | IIT Roorkee | 11/02/2011 | 10/02/2012 | 1 Years |
| **12.** | Chairman Department Academic Studies Committee (DASC) | IIT Roorkee | 2008 | 2010 | 2 Years |
| **13.** | Member, Deptt. Professorial Committee, Department of Architecture & Planning | IIT Roorkee | 22/09/2006 | 21/09/2008 | 2 Years |
| **14.** | Chairman Department Research Committee (DRC) | IIT Roorkee | 2006 | 2008 | 2 Years |
| **15.** | Warden Student Hostel (Ravindra Bhawan) | University of Roorkee | 1992 | 1993 | 1 Years |
| **16.** | Staff Advisor-Basketball/Volleyball | University of Roorkee | 1989 | 1994 | 6 Years |

**Awards/Honors/Recognitions: (16)**

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|  | **2021** | Serving as a committee member for the celebration of 175 years of IIT Roorkee (2021-22) |
|  | **2013- till date** | Serving as a Tribology Committee Member IFToMM (International Federation for the Promotion of Mechanisms and Machines. |
|  | **2019** | Served as a member of the Expert Committee constituted by Chairman ISRO/Secretary DOS Vide letter No: SC/CH/A.22/65/2019 at March 15, 2019, Government of India, Dept. of Space, Indian Space Research Organization, to address the on-orbit observations pertaining to Wheels and DTG to ensure reliability and error free operation. |
|  | **2016** | Jury member for public competition for waterless and odourless Toilets in Trains under “Swachh Bharat Abhiyan”, Indian Railways |
|  | **2014-15** | Served as a member-National Committee on Noise Pollution control, Central Pollution Control Board New Delhi, (Jan. 2014- Dec. 2015). |
|  | **2012-18** | Served as a member-Apex Advisory committee (R&D), Tehri Hydro Development Corporation Ltd., 2012-15, 2015-2018. |
|  | **2011-12** | Served as a member Central Board of Railway Research (CBRR), RDSO, Lucknow2011-12. |
|  | **2009-11** | Served as a member, Board of Post Graduate Education and Research in Engineering and Technology AICTE, New Delhi, 2009-2011 |
|  | **2003** | Certificate of Merit, Institution of Engineers, India. |
|  | **2002** | First Khosla Annual Research Award, University of Roorkee. |
|  | **2002** | Second Khosla Research Award, University of Roorkee. |
|  | **2001** | Corps of Electrical and Mechanical Engineering Medal (Institution of Engineers, India) |
|  | **1999** | Khosla Research Recommendation Award, University of Roorkee. |
|  | **1993** | Second Khosla Research Prize and Medal, University of Roorkee. |
| 1. **7** | **1992** | Khosla Annual Research Award, University of Roorkee. |
|  | **1982** | University Gold Medal for Standing First in First class in M.E. (Machine Design),  University of Roorkee, Roorkee. |

**Research interests:**

Machine Design, Tribology, Hydrodynamic/ Hydrostatic Lubrication, Coriolis Mass Flow Measuring Techniques.

**International Visits:**

1. **2020-** Attended IFToMM TC, Tribology Meeting, Nov. 19, 2020 (virtual meeting).
2. **2018**-73rd STLE Annual Meeting, Minneapolis, (USA), May 20-24, 2018.
3. **2016**- 71th STLE Annual Meeting, Las, Vegas (USA), May 15-19, 2016.
4. **2015-** Northwestern University (USA) and University of Akron (USA), Under the project sponsored by Indo-US Science and Technology Forum, May 14-25, 2015.
5. **2015**- 70th STLE Annual Meeting, **Dallas, Texas (USA), May 17- 21, 2015.**
6. **2014-** Northwestern University (USA) and University of Akron (USA), Under the project sponsored by Indo-US Science and Technology Forum, June 8-21, 2014.
7. **2013-** Pan-IIT Alumni 2013 Global Conference at Houston, Texas, Dec 6-8, 2013.
8. **2013**- 68th STLE Annual Meeting, **Detroit, Michigan (USA), May 5- 9, 2013.**
9. **2012**- 67th STLE Annual Meeting, St. Louis, Missouri (USA), May 06-10, 2012.
10. **2011**- 66th STLE Annual Meeting, Atlanta, Georgia (USA) May 15-19, 2011.
11. **2008** - 63rd STLE Annual Meeting, Cleaveland, Ohio (USA) May 18 – 22.
12. **2003** - ASME / STLE Joint International Tribology Conference, Florida (USA) Oct. 26 – 29.
13. **2000** - ASME / STLE Joint International Tribology Conference, Seattle (USA) Oct. 26 – 29.
14. **1997** - 52nd STLE Annual Meeting, Kansas, Missouri (USA) May 18 – 22.
15. **Oct. 1994- July 1995** – Leverhulme Visiting Fellow at University of Surrey Guildford (UK).

**Collaborative Programme:**

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| **S. No.** | **Project title** | **Sponsoring agency** | **Duration** | **Financial outlay (in Rs.)** | **Project No.** | **Name of P.I. and other investigators** |
| 1 | INDO-US JOINT CENTRE FOR ELASTO-HYDRODYNAMIC LUBRICATION STUDIES   * US Collaborating University: Northwestern University, USA, University of Akron, USA. * Indian Collaborating Organization: CSIR- IIP Dehradun, India. | IUSSTF | 2013-16 | 28.54 Lacs | IUF-723-MID/13-14 | **India Nodal P. I.**   * Prof. Satish C. Sharma   IIT Roorkee  **India Co P. I.**   * Dr. G.D. Thakre   IIP Dehradun   * Prof. Suraj P. Harsha   IIT Roorkee  **US Nodal P. I.**   * Prof. Q. Jane Wang   Department of Mechanical Engineering  Northwestern University  Evanston, Illinois, United States   * Prof. Minel J. Braun   Distinguished Professor  Department of Mechanical Engineering  University of Akron  Akron, Ohio, United States |

**Research Guidance:**

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| Ph.D. (Annexure-1) | 27(Awarded) | 07 (In Progress) |
| M.Tech. (Annexure-1) | 81(Awarded) | 01 (In Progress) |
| B.Tech. Project | 48(Awarded) | Nill (In Progress) |

**For details of Research Guidance please see Annexure-1.**

**RESEARCH PUBLICATIONS:**

|  |  |  |  |
| --- | --- | --- | --- |
| i. | International Refereed Journals | | 182 |
| ii. | Book/series/ Chapter | | 03 |
| iii. | Abstracts | | 01 |
| iv. | National Journals | | 07 |
| v. | Proceedings of International and National Conferences | | 151 |
| **h-index, i-index and other Citations** | | | |
| **h- Index: 33** | | **i-10 Index: 101** | **No. of Citations: 4002** |

**For details of publication please see Annexure-2.**

**Number of Projects (Completed/ In Progress):**

1. **Sponsored Research/Projects Undertaken:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Project title** | **Sponsoring agency** | **Duration** | **Financial outlay (in Rs.)** | **Name of P.I. and other investigators** | **Project No.** |
| 1 | FAULT DIAGNOSIS AND PROGNOSIS OF HIGH SPEED ROLLING ELEMENT BEARING | DST, Govt. of INDIA | 3  Years  (2009-2012) | 31.848 Lacs | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I)  Pradeep Kumar (Co P I) | DST-457-MID |
| 2 | PREDICTION AND OPTIMIZATION OF DISTORTION AND RESIDUAL STRESSES IN AUSTENTIC STAINLESS STEEL PIPE WELDS | Dept. of Atomic Energy, BRNS, GOI | 3  Years  (2011-2014) | 24.3195 Lacs | Satish C. Sharma (Co P I)  Manas M. Mahpatrra (P I)  Pradeep Kumar (Co P I) | BRNS-579-MID |
| 3 | A PARAMETRIC STUDY OF PERFORMANCE OF A CORIOLIS MASS FLOW RATE METER | DST | 3  Years  (2006-2009) | 19.87 Lacs. | Satish C. Sharma (P I)  Ravi Kumar (P I) | DST-262-MID |
| 4 | EXPERIMENTAL INVESTIGATION OF HYDRODYNAMIC JOURNAL BEARING SYSTEM FOR IMPROVED STABILITY | AICTE (Under MODROBS scheme) | 3  Years  (1995-1998) | 5.00 Lacs | Satish C. Sharma (P I)  S C Jain (Co P I) | AICTE-5746-03-MID |
| 5 | DESIGN AND DEVELOPMENT OF A PROOF OF CONCEPT MODEL OF AN ADAPTIVE MEMBRANE | ISRO | 3  Years  (2015-  2018) | Rs.  29.75  Lacs | Satish C. Sharma (Co P I)  S. Upadhyay (P.I.)  Suraj P. Harsha(Co P I) | ISR-833-MID |
| 6 | SETTING UP CENTRE FOR RAILWAY RESEARCH (CRR) | RDSO, LUCKNOW | Ongoing | Rs.  166.67  Lacs | Satish C. Sharma (P I) | RDS-1073-MID/17-18 |

1. **Consultancy Research/Projects Undertaken:**

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| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Project title** | **Sponsoring agency** | **Duration** | **Financial outlay (in Rs.)** | **Name of P.I. and other investigators** | **Project No.** |
| 1 | ROPEWAY INSPECTION AT MUSSOORIE | SHAIL SHIKHER ASSOCIATES MUSSOORIE | 1 month | 50934 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I) | MID-1005/09-10 |
| 2 | EVALUATION OF ROPE PERFORMANCE | GARHWAL MANDAL VIKAS NIGAM LTD., DEHRADUN | 18 days | 90000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-2007/09-10 |
| 3 | INSPECTION OF ROPEWAY AT MUSSOORIE | M/S SHAIL SHIKHER ASSOCIATES ( REGD. ) MUSSOORIE | 20 days | 50000 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I)  Suraj P. Harsha (Co P I) | MID-1008/09-10 |
| 4 | STUDY AND DESIGN IMPROVEMENT IN CTRB OF FREIGHT STOCK OF INDIAN RAILWAYS | RDSO, LUCKNOW | 2 years  4  months | 2138713 | Satish C. Sharma (P I)  Suraj P. Harsha(Co P I) | MID-1007/09-10 |
| 5 | TECHNICAL ENQUIRY OF MANSADEVI ROPEWAYS | DISTRICT MAGISTRATE HARIDWAR | 35 days | 200000 | Satish C. Sharma (P I)  V. K. Goel (Co P I)  R.P. Gakkhar (Co P I) | MID-1011/09-10 |
| 6 | INSPECTION OF ROPEWAY AT MANSA DAVI, HARDWAR | DISTRICT MAGISTRATE HARIDWAR | 8 days | 60000 | Satish C. Sharma (P I)  V. K. Goel (Co P I)  R.P. Gakkhar (Co P I) | MID-1003/10-11 |
| 7 | INSPECTION OF KEMPTY FALL ROPEWAY AT MUSSORIE | M/S NEENA CONTRACTORS AND BUILDERS PVT. LTD., DEHRADUN | 11 days | 91000 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I)  Suraj P. Harsha (Co P I) | MID-1004/10-11 |
| 8 | SITE VISIT AND DISCUSSION AT ONGC | ONGC LTD. VADODRA | 3 months | 15000 | Satish C. Sharma (P I)  M. Mahapatra (Co P I)  Suraj P. Harsha (Co P I) | MID-1005/10-11 |
| 9 | VETTING OF DESIGN FOR MAA CHANDI DEVI ROPEWAY HANGER | M/S USHA BRECO LTD., REGIONAL OFFICE HARIDWAR | 2 months | 180000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1009/10-11 |
| 10 | INSPECTION OF ROPEWAY AT MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES, MUSSORIE | 10 days | 78975 | Satish C. Sharma (P I)  Pradeep Kumar (Co P I) | MID-1011/10-11 |
| 11 | VIBRATION ANALYSIS OF TWO COMPONENTS OF EICHER TRACTORS | EICHER TRACTORS LTD. BHOPAL | 3.5 months | 400000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-1012/10-11 |
| 12 | INSPECTION OF ROPEWAY SYSTEM AT KEMPTY FALL, MUSSORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD. DEHRADUN | 1.5 months | 101360 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I)  Suraj P. Harsha (Co P I) | MID-1021/10-11, |
| 13 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL POINT MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES, MUSSORIE | 25 days | 101360 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1022/10-11 |
| 14 | ROOT CAUSES ANALYSIS OF SHAFT FAILURE OF ROPEWAY | EX. OFFICER OFFICE OF NAGAR PALIKA PARISHAD MUSSOORIE | 10 days | 101360 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1004/11-12 |
| 15 | INSPECTION OF OVER ALL OPERATION OF ROPE WAY | M/S SHAIL SHIKHAR ASSOCIATES ROPEWAY MUSSOORIE, DISTT. DEHRADUN UTTARAKHAND | 15 days | 71000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1010/11-12 |
| 16 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL POINT, MUSSOORIE | M/S SHAIL SHIKHAR ASSOCIATES ROPEWAY, MUSSOORIE | 1 months | 101015 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-1001/12-13 |
| 17 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL POINT, MUSSOORIE | M/S SHAIL SHIKHER ASSOCIATES , ROPEWAY JHULAGHAR MUSSOORIE | 25 days | 111250 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6002/12-13 |
| 18 | COMPUTATION AND VALIDATION OF LUBE OIL AND JACKING OIL FLOWS/LOSSES AS WELL AS STIFFNESS AND DAMPING COEFFICIENTS IN HYDRODYNAMIC JOURNAL BEARINGS OF STEAM TURBINE | BHEL HARDWAR | 8 months | 1250000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6021/12-13 |
| 19 | INSPECTION OF ROPEWAY SYSTEM ST GUN HILL POINT, MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 2 months | 109676 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6001/13-14 |
| 20 | INSPECTION OF ROPEWAY SYSTEM AT KAMPTY FALL, MUSSORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD.,DEHRADUN | 45 days | 109676 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6002/13-14 |
| 21 | DESIGN VETTING OF COLUMN BEARING HOUSING | ISGEC, YAMUNAGAR | 1 month 10 days | 300000 | Satish C. Sharma (Co P I)  Suraj P. Harsha ( P I) | MID-6004/13-14 |
| 22 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL, MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 1 month | 109676 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6018/13-14 |
| 23 | DEVELOPMENT OF A SOFTWARE FOR THE DESIGN OF MULTI PLATE WET CLUTCH. | M/S MAKINO AUTO INDUSTRIES PVT. LTD., NOIDA | 1 year | 300000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6024/13-14 |
| 24 | DEVELOPMENT OF UPGRADED DRAFT GEAR FOR FREIGHT STOCK: DEVELOPMENT OF TESTING REGIMES | RDSO LUCKNOW | 1.5 years | 2125000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6030/13-14 |
| 25 | DESIGN VETTING OF FIXTURE OF 28 AXLE RAIL WAGON | BHEL HARIDWAR | 8 month 15 days | 870000 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I)  Pradeep Kumar (Co P I) | MID-1004/09-10 |
| 26 | DESIGN OF 650 KN LIFTING SYSTEM | PIONEER FABRICATION (P) LTD., MEERUT | 25 days | 30734 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I)  Pradeep Kumar (Co P I) | MID-1007/10-11 |
| 27 | ANALYSIS OF 250 MW FRANCIS TURBINE COMPONENTS FOR KARCHAM WANGTOO HEP. (1000 MW), | M/S JAI PRAKASH ASSOCIATES LTD. NOIDA | 2 months | 480000 | Satish C. Sharma (Co P I)  Suraj P. Harsha ( P I) | MID-1010/10-11 |
| 28 | STUDY AND ROOT CAUSE ANALYSIS OF HIGH VIBRATION ANALYSIS IN CIRCULATING WATER PUMPS 2X250 MW THERMAL POWER PLANT, CHABBRA ( RAJASTAN), | M/S PUNJ LLOYOD LTD. GURGAON, | 22 days | 700000 | Satish C. Sharma (Co P I)  Suraj P. Harsha ( P I) | MID-1014/10-11 |
| 29 | FEASIBILITY STUDY FOR USE OF PTEF (TEFLON) MULTIBALL BEARINGS SUPPORT FOR CONDENSOR. | BHEL, HARIDWAR | 7 months  15 days | 850000 | Satish C. Sharma (Co P I)  Suraj P. Harsha ( P I) | MID-1015/11-12 |
| 30 | DESIGN OF DEWATERING AND DRAINAGE SYSTEM FOR FLOOD CONTROL AT TEHRI DAMS | THDC LTD. | 1 year 10 months | 724801 | Satish C. Sharma (Co P I)  Suraj P. Harsha ( P I) | MID-1015/11-12 |
| 31 | PERFORMANCE ENHANCEMENT OF MULTIPURPOSE HIGH LOW PRESSURE- FIRE PUMP | SHRI GANESH FIRE EQUIPMENTS(P) LTD., NEW DELHI | 9 months | 825000 | Satish C. Sharma (Co P I)  Suraj P. Harsha ( P I) | MID-6016/13-14 |
| 32 | ANNUAL TESTING OF ROPEWAY | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 25 days | 22274 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1011/06-07 |
| 33 | ROPEWAY INSPECTION AT DEHRADUN | SHRI GANPATI SAGAR HILL RISE, DEHRADUN | 12 days | 25000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1003/07-08 |
| 34 | INSPECTION OF ROPEWAY | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 22 days | 50000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1001/08-09 |
| 35 | MAINTENANCE EVALUATION OF ROPEWAY | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 15 days | 50000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1004/08-09 |
| 36 | SITE VISIT OF ROPEWAY SYSTEM AT JHULAGHAR | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 1 months | 50934 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1001/09-10 |
| 37 | INSPECTION OF ROPEWAY SYSTEM AT KEMPTY MUSSORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD.,DEHRADUN | 10 days | 101325 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-1003/12-13 |
| 38 | AIRCRAFT NOISE MONITORING AROUND INDIRA GANDHI INTERNATIONAL AIRPORT | CENTRAL POLLUTION CONTROL BOARD, NEW DELHI | 1.5 years | 400000 | Satish C. Sharma (Co P I)  S P Nigam (P I)  S C Jain (Co P I)  M Bhattacharya (Co P I) | MID-II-001/99-2000 |
| 39 | PLANNING AND DESIGN OF GRAVITY ROPEWAY IN NAGALAND. | NATIONAL HORTICULTURE BOARD,MINISTRY OF AGRICULTURE (GOI) | 7 months | 1500000 | Satish C. Sharma (Co P I)  R.P. Gakkar (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1015/10-11 |
| 40 | SITE OF ROPEWAY SYSTEM AT KEMPTY FALL,  MUSSOORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD.,DEHRADUN | 35 days | 90000 | Satish C. Sharma (Co P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (P I) | MID-1002/09-10 |
| 41 | SITE VISIT DISCUSSION AT SITE AND ADVICE FOR QUALITY ASSURANCE FOR DEVELOPMENT OF BIHAR STATE UNDER RSVY BY CPWD | CPWD PATNA BIHAR | 2 YEARS 15 DAYS | 22961908 | Satish C. Sharma (Co P I)  S C Jain and others | CTS-1001/08-09 |
| 42 | FIELD AND LABORATORY STUDIES FOR QUALITY ASSURANCE FOR DEVELOPMENT OF BIHAR STATE UNDER RSVY BY CPWD | CPWD PATNA BIHAR | 2 YEARS 15 DAYS | 22961908 | Satish C. Sharma (Co P I)  S C Jain and others | CTS-2002/08-09 |
| 43 | THIRD PARTY INSPECTION OF 100 CUSEC WATER TREATMENT PLANT TO SUPPLY WATER TO GREATER NOIDA | PROJECT MANGER, GANGA JAL PROJECT UNIT, UP JAL NIGAM, PRATAP VIHAR GHAZIABAD | 3 years | 6230000 | Satish C. Sharma (Co P I)  V.K. Goel and others | CED-1067/10-11 |
| 44 | EROSION ANALYSIS OF GUIDE VANE-KW HYDRO ELECTIC | JAI PRAKASH POWER VENTURES LTD, NOIDA | 5 Months  10 Days | 898880 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I) | MID-6003/14-15 |
| 45 | DEVLOP WELDING PARAMETERS FOR OUTER RING OF GBC 250/500/600/800 MW TO CONTROL DISTORTION | BHEL, HARIDWAR | 6 Months | 880000 | Satish C. Sharma (Co P I)  Suraj P. Harsha (Co P I)  Dr. M.M Mahpatra(P I) | MID-6002/14-15 |
| 46 | A STUDY ON HYDRODYNAMIC JOURNAL BEARINGS OF STEAM TURBINE TO COMPUTE THE LUBE OIL AND JACKING OIL FLOW/LOSSES BY CONSIDERING THE TEMPERATURE VARIATION IN OIL FILM | BHEL, HARIDWAR | 1 year | 2022000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6006/14-15 |
| 47 | DESIGN AND CALCULATION OF AERIAL ROPEWAYS FOR TRANSPORT OF MATERIALS | Uttarakhand Agricultural Produce Marketing Board Dehradun  Niranjanpur  DEHRADUN- 248001 | 1 Months  25 Days | 199500 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6008/15-16 |
| 48 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL, MUSSORIE | M/S SHAIL SHIKHER ASSOCIATES , ROPEWAY JHULAGHAR MUSSOORIE | 1 Months  15 Days | 135000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6012/15-16 |
| 49 | MECHANICAL FAULT DIAGNOSIS OF GEAR UNDER VARIOUS CONDITIONS | ISGEC, YAMUNAGAR | 2 Months  10 Days | 148200 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I) | MID-6011/15-16 |
| 50 | ROPEWAY INSPECTION AT JHULAGHAR, MUSSOORIE | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 25 Days | 174239 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I) | MID-6001/16-17 |
| 51 | VIBRATION DATA ANALYSIS OF HIGH SPEED ROTARY MACHINE ANS AUXILLIARIES AT TEHRI HPP AND KOTESHWOR HEP | TEHRI HPP AND KOTESHWOR HEP | 1 Year | 1488500 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I) | MID-6003/16-17 |
| 52 | EVALUATION AND VALIDATION OF SPERLING'S RIDE INDEX FOR ROLLING STOCK AS PER METHOD DESCRIBED IN ORE-C-116 REPORT NUMBER-8 | RDSO Lucknow | 2 Year | 5,90,000 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I) | MID-6007/17-18 |
| 53 | EVALUATION OF ENTRIES RECEIVED DURING PUBLIC CHALLENGES FLOATED BY RDSO | RDSO Lucknow | 8 Months | 25,53,096 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6009/17-18 |
| 54 | EVALUATION OF PERFORMANCE OF PARTIAL ARC (120⸰) HYDROSTATIC/HYBRID JOURNAL BEARING FOR WET BALL MILL APPLICATION | BHEL, HYDERABAD | 8  Months | 18,88,000 | Satish C. Sharma (P I)  Suraj P. Harsha (Co P I) | MID-6012/17-18 |
| 55 | DESIGN OPTIMIZATION OF EMERGENCY SPRING FOR PASSENGER COACH SECONDARY SUSPENSION ***(ON GOING)*** | Aryan Exporters Private Limited  Lucknow | 8  Months | 11,80,000 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I) | MID-6014/18-19 |
| 56 | ANALYSIS OF UPGRADED DRAFT GEAR FREIGHT STOCK ***(ON GOING)*** | Aryan Exporters Private Limited  Lucknow | 6  Months | 5,90,000 | Satish C. Sharma (Co P I)  Suraj P. Harsha (P I) | MID-6008/19-20 |

**Short Term Courses Organized: (13)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **DATES** | **TITLE** | **SPONSORS** |
| 1 | Aug. 16–20, 1999 | **Pipe Line Technology** | ONGC, India |
| 2 | Sept. 10–14, 2001 | **Pipe Line Technology** | ONGC, India |
| 3 | Dec. 03–06, 2008 | **Bearing Technology & Maintenance** | Continuing Education Center,RDSO, NTPC, THDC, NBC, L&T, BHEL, etc. |
| 4 | July 06-10, 2009 | **Sound and Vibrations, Fundamental, Measurement, Diagnostics & Analysis** | Continuing Education Center,Indian Institute of Technology Roorkee, India |
| 5 | April 3-6, 2010 | **Diagnostics and Condition Monitoring of Rotating Machines** | RDSO, NTPC, THDC, CEC, IIT Roorkee, Roorkee, India |
| 6 | Sept. 24-26, 2010 | **Strength of Materials** | RDSO Lucknow, India |
| 7 | March 7-10, 2011 | **Vibration Condition Monitoring Techniques For Fault Diagnosis** | L&T, NBC, NTPC, BHEL, FAG, TIMKEN, THDC etc. |
| 8 | Dec. 26-30, 2011 | **Dynamics and Control of Mechanical Systems** | AICTE sponsored, QIP,IIT Roorkee, India |
| 9 | Dec. 21-23, 2012 | **Noise Monitoring and Control Technologies** | CPCB New Delhi, India |
| 10 | Dec. 30,2013-Jan. 03, 2014 | **Modelling and Simulation of Dynamical Systems** | Continuing Education Center,Indian Institute of Technology Roorkee, India |
| 11. | May 27,2019-May 29, 2019 | **“Railway Vehicle Dynamics”**  (*for 32 RDSO Lucknow officers at IIT Roorkee*) | RDSO, Ministry of Railways, Govt. of India |
| 12. | Jan. 16, 2020 –Jan. 18, 2020 | **“Advance Technical Program on Journal Bearing”** | BHEL R&D, Hyderabad, India |
| 13. | Oct. 12,2020- Oct. 16,2020 | **“Fundamentals of Bogie Design”**  (*for 41 RDSO officers via Online mode* *under aegis of CRR, IIT Roorkee*) | RDSO, Ministry of Railways, Govt. of India |

**Conference Organized:**

**National Tribology Conference (NTC-2011) Dec 08-10, 2011**, Department of Mech. & Ind. Engg. IIT Roorkee.

Capacity-as a Chairman. The NTC-2011 Conference was organized under aegis of Tribology Society India. The Conference was attended by over 100 delegates. The keynote lectures were presented by experts from India and Abroad. A large number of organization such as IOCL, NBC Bearing, L&T, DUCOM, Kittiwake, K. K. distributers, AEP technologies (USA), DST(GOI), CSIR(GOI), BARC(GOI) sponsored the conference.

**COPYRIGHTS:**

1. Copyright filed on “An efficient method to compute performance characteristics of two-lobe Hydrodynamic Journal Bearing” by Navin Kumar\*, Akash Shukla\*, Sanjay Bansal\*, **Dr. Satish Chandra Sharma+**, Dr.S.P. Harsha+, Saurabh Kumar Yadav+ and Chandra B Khatri+, CR\_NO: 150284HW and Diary No: 5136/2016-CO/L. \* Bharat Heavy Electricals Limited, India and + Indian Institute of Technology Roorkee, India.
2. Copyright filed on “Program to compute performance characteristics of two-lobe Hydrodynamic Journal Bearing” by Navin Kumar\*, Akash Shukla\*, Sanjay Bansal\*, **Dr. Satish Chandra Sharma+**, Dr.S.P. Harsha+, Saurabh Kumar Yadav+ and Chandra B Khatri+, CR\_NO: 150278HW and Diary No: 5119/2016-CO/SW. \* Bharat Heavy Electricals Limited, India and + Indian Institute of Technology Roorkee, India.

**Memberships of Professional Bodies:**

1. Member Board of Studies- Indira Gandhi Delhi Technical University for women, Dec 2016-Dec 2018.
2. Joint secretary, Tribology Society of India (TSI), 2014-2016.
3. Executive Member of Tribology Society of India (TSI) 2009-2010, 2011-2012, 2013-14, 2015-16, 2017-18 & 2019-2021.
4. Member-Academic Council, Mahamaya Technical University, Noida, G.B. Nagar (U.P)
5. Member of Board of Studies Guru Jambeshawar University (Hissar).
6. Member of Board of Studies Thaper University, Patiala, Punjab.
7. Life member of Indian Society of Mechanical Engineers (ISME)
8. Life member of Tribology Society of India (TSI)
9. Life member of Instrument Society of India (ISOI)
10. Member Institution of Engineers (INDIA)

**Other Extension Activities:**

1. Expert in selection committee of BITs, Pilani, Goa Campus (July, 2016)
2. Expert in selection committee of IIP, Dehradun (June, 2016)
3. Member peer team NAAC
4. Expert in selection committee of DTU, New Delhi (Jan. 2015).
5. Expert in selection committee of IIITDM Jabalpur (Aug. 2014).
6. Expert in selection committee of IIT Delhi.
7. Expert in selection committee of Union Public Service Commission, New Delhi.
8. Expert in selection committee of Uttrakhand Public Service Commission, Haridwar.
9. Expert in selection committee of Uttrakhand Technical University, Dehradun.
10. Expert in selection committee of College of Technology, GBPUAT, Pantnagar.
11. Expert in selection committee of Guru Jambeshawar University (Hissar).
12. Expert in selection committee of MNIT Jaipur.
13. Expert in selection committee of NIT Kurushetra.
14. Expert in selection committee of Thapar University, Patiala.
15. Expert in selection committee of Punjab University, Chandigarh.
16. Expert Member in the NBA Accreditation team to various engineering Institutes.
17. Chaired Technical Sessions in many Conferences.
18. Delivered Invited Expert Lectures in various Programmes.

**Courses and Lab Developed:**

1. Developed Tribology Laboratory in the Department.
2. Developed a Web Based Course on ‘Strength of Material’ under the National Programme on Technology Enhanced Learning (NPTEL) – MHRD, Government of India, September, 2006.
3. Developing the following courses under the MHRD Scheme NPTEL, 2014
4. Vibration control (web course)
5. Dynamics of mechanical system (web course)

**Ph.D Thesis Examiner:**

* I.I.T. Delhi
* I.I.T. Guwahati
* I.I.T. BHU
* I.I.T. Patna
* N.I.T. Hamirpur
* N.I.T. Kurukshetra
* N.I.T. Surathkal
* N.I.T. Jamshedpur
* N.I.T. Srinagar, J & K
* N.I.T. Calicut
* B.I.T.S Pilani
* IIITDM Jabalpur
* Visvesvaraya Technological University (VTU), Belagavi
* Jamia Millia Islamia, Delhi
* Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
* Anna University, Chennai
* Sant Longowal Institute of Engineering & Technology (SLIET), Longowal, Punjab
* University of Kerala
* TIET - Thapar Institute of Engineering And Technology
* Jawaharlal Nehru Technological University, Kukatpally, Telangana
* Gautum Budhha University, Greater Noida, Uttar Pradesh
* Manipal University, Karnataka
* Delhi Technological University (DTU) Delhi
* Uttarakhand Technical University
* CSIR-Central Mechanical Engineering Research Institute, Durgapur, West Bengal
* Indian Institute of Engineering Science and Technology, Shibpur, West Bengal
* DIT University, Dehradun

**Reviewing activities:**

* Tribology International
* ASME Journal of Tribology
* Journal of Engineering Tribology (IMechE, Part J)
* WEAR
* Surface and Coatings Technology
* Institution of Engineers (India)
* TSI Journal (India)
* Industrial Lubrication and Tribology
* ASME journal of Vibration and Acoustic
* STLE Tribology Transaction
* Lubrication Science
* International Journal of Surface and Coatings etc.
* International Journal of Vibration and Control, Sage Publication
* Advances in Tribology
* Mechanics and Industry
* Advances in Mechanical Engineering
* IEEE ACCESS
* Friction
* Meccanica
* Precision Engineering
* Tribology in Industry
* Journal of Mechanical Engineering and Sciences
* Iranian Journal of Science and Technology, Transactions of Mechanical Engineering
* Journal of Applied Fluid Mechanics
* SN Applied Sciences
* The International Journal of Advanced Manufacturing Technology

**KEYNOTE LECTURES DELIVERED:**

1. **“TRIBOLOGY IN ENGINEERING: ISSUES/APPLICATIONS/OPPORTUNITIES”** M.S. Ramaiah Institute of Technology, Bengaluru, Karnataka, March 03, **2022.**
2. **“Tribological Performances of Textured Surfaces”,** TRIBOINDIA 2021-An International Virtual Tribology Conference, Saintgits College of Engineering (Autonomous), Kottayam, Kerala, 02 – 04 December, 2021
3. “**Surface Texturing in Fluid Film Bearing Applications”,** DTU - Delhi Technological University through Webinar Mode, 31-08-**2021**.
4. “**Application of Textured Surfaces in Fluid Film Bearing Technology”,** 13th Summer School in Tribology under the aegis of Tribology society of India through Webinar Mode, 31-08-**2021**.
5. **“Recent Trends in Tribological Design of Fluid Film Bearings”** 6-day Online Faculty Development Programme on 'Emerging Trends in Mechanical Engineering" (ETiME-2021) from 12-17 April, 2021Maharishi Markandeshwar (Deemed to be University), Mullana, Haryana.
6. **“Application of Textured Surfaces in Fluid Film Bearing Technology”** STTP on “Industry 4.0 & Condition Monitoring” 15-19, March 2021, Government Engineering College Ajmer & Veermata Jijabai Technological Institute, Mumbai (Sponsored by TEQIP-III, Under Twinning), 16-03-2021.
7. **“Role of Biomimetics in Tribological Design of Machine Elements”** Five Days Online Workshop On “Contemporary Issues in Design and Manufacturing (CIDM 2021)” Department of Mechanical Engineering National Institute of Technology Sikkim Under the Aegis of TEQIP-III, NPIU MoE, Govt. of India, 15-03-2021.
8. **“Preparation of SSR (Self Study Report)”** Seven Day Faculty Development Programme (Webinar) on Introducing NAAC Revised Accreditation Framework & Quelling the Quest Under the PARAMARSH Scheme of UGC, Aggarwal College Ballabgarh, Distt. Faridabad, Haryana, 14-03-2021.
9. **“Fluid Film Lubrication”** FDP on “Advances in Tribology” Sreenidhi Institute of Science and Technology, Hyderabad, 15-12-2020.
10. **“Lubrication Performance of Hydrostatic / Hybrid Textured Fluid Film Bearings”** TRIBOINDIA 2020-An International Virtual Tribology Conference, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, 11th December 2020.
11. **“Surface Texturing in Tribological Applications”** TSI Technical Education Webinar Series, **27-11-2020.**
12. **“SURFACE TOPOGRAPHY - Influence on Tribo - Performance”** 6-Day AICTE Sponsored Short Term Training Programme (Sttp), Saintgits College of Engineering, Kottayam, Kerala, Nov. 25, **2020.**
13. “**Hydrostatic Bearings - An Overview”,** Tribology in Machine Element: Fundamental and recent advancement, IIT Jammu, India, Nov. 24, **2020.**
14. “**TRIBOLOGY AND ITS INFLUENCE ON SOCIETY”,** Tribology in Machine Element: Fundamental and recent advancement, IIT Jammu, India, Nov. 23, **2020.**
15. **“Design for Reliability”** A 5 Day Online International Course on “Fundamentals of Bogie Design, Centre for Railway Research, IIT Roorkee, October 16, 2020.
16. **“LUBRICANTS -2 Smart**” 6-Day AICTE Sponsored Short Term Training Programme (Sttp), Saintgits College of Engineering, Kottayam, Kerala, 19-09-2020.
17. **“LUBRICANTS -1 Fundamentals”** 6-Day AICTE Sponsored Short Term Training Programme (Sttp), Saintgits College of Engineering, Kottayam, Kerala, 18-09-2020.
18. **“Tribology and its Influence on Society”** One-week online short term course (STC), Dr. B R Ambedkar, National Institute of Technology, Jalandhar (Punjab), 15-09-2020.
19. **“Role of Tribology in Industry”** TEQIP Sponsored Faculty Development Programme, VSSUT Burla, Odisha, 11-09-2020.
20. **“Concept of Fluid Film Lubrication”** 6-Day AICTE Sponsored Short Term Training Programme (Sttp), Saintgits College of Engineering, Kottayam, Kerala, 19-08-**2020**.
21. **“Introduction to Tribology – Its Impact On Society”** 6-Day AICTE Sponsored Short Term Training Programme (Sttp), Saintgits College of Engineering, Kottayam, Kerala, 18-08-**2020**.
22. “**Basics of Fluid Film Lubrication”,** 12th Summer School in Tribology under the aegis of Tribology society of India through Webinar Mode, 21-07-**2020**.
23. “**Basics of Lubrication/ Hydrostatic bearings”,** Tribology in machine element: Fundamental and recent advancement, IIT Jammu, India, Dec. 09, **2019.**
24. “**Textured surfaces Hydrostatic/Hybrid fluid film bearings”,** 10th International Conference of Industrial Tribology (ICIT-2019), IISc Bangalore, India, Dec. 01-04, **2019.**
25. **“Tribology in Railway Wheel Contact”** 3-Day International course on Railway Vehicle Dynamics, Centre for Railway Research, IIT Roorkee, 27-05-2019.
26. **“Fluid Film Lubrication”** International Workshop on Tribology, Amrutvahini College of Engineering, Sangamner, Maharashtra, India, 18-01-2019.
27. **“Application of MR fluid damper in Railway suspension system”** 3-Day International course on Railway Vehicle Dynamics, Centre for Railway Research, IIT Roorkee, 27-05-2019.
28. “**Basics of Fluid Film Lubrication”,** 11th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 14-05-2019.
29. “**Failure Mechanism of Fluid Film Bearings**” Faculty Development Programme under TEQIP-III, NIT Jalandhar, July, 03, **2018**.
30. “**Textured Fluid Film Bearings”,** SRM University, Chennai, India, June 11, **2018.**
31. “**Basics of Fluid Film Lubrication”,** 10th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 18-06-2018.
32. “**Basics of Fluid Film Lubrication”,** 9th International Conference of Industrial Tribology(ICIT)-2017, Kolkata, India, 06-09, **2017.**
33. “**Basics of Fluid Film Lubrication”,** 9th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 19-06-**2017.**
34. “**Basics of Fluid Film Lubrication”,** 8th Summer School in Tribology under the aegis of Tribology society of India, IISc Banglore, 25-07-**2016.**
35. “**Hydrostatic/Hybrid Bearings - Some Recent Advances”,** Indian Institute of Engineering Science and technology Shibpur, Howrah, 03-08-**2016**.
36. “**Stability analysis of fluid film journal bearing system”,** Graphics Era University, Dehradun, May.05, 2016
37. **“Tribology and its Impact”,** NIT, Uttarakhand, April 09, 2016
38. **“Tribology and its Impact”,** GBU, Noida, March 05, 2016
39. **“Tribology and its Impact”,** DIT, Dehradun, Jan. 22, 2016
40. **“Basics of Fluid Film Lubrication: - Hydrostatic Bearings”** IIT Delhi, Dec. 10, **2015**
41. **“Basics of Fluid Film Lubrication”** 7th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 09-06-**2015.**
42. **“Tribology and Its Impact”,** International conference on newest drift in Mechanical Engineering (ICNDME-2014) MMU University, Dec. 20, **2014**
43. **“Tribology and Its Impact- Consideration for Lubrication Science & their Applications”,** National Tribology Conference-2014, PES College, Bangalore, Dec. 16, **2014.**
44. **“Tribology and Its Impact- Consideration for Lubrication Science & their Applications”,** BMS College, Bangalore, Dec. 16, **2014.**
45. **“Principals of Hydrostatic Lubrication”** 6th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 24-06-**2014.**
46. **“Fluid Film Lubrication”** 5th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 24-06-**2013.**
47. **“Fluid Film Lubrication”** Pre-Conference Education Course on Basic of Tribology, Hotel Westin Pune, December 6, **2012**
48. **“Fluid Film Lubrication”** 4th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 26-06-**2012.**
49. **“FEM Applications in Fluid Film Journal Bearings”** CEP Course, DEAL(DRDO), Dehradun, 24.06.2012
50. **“Coriolis Mass Flow Sensors- A State of art”,** Thapar University, Patiala. Feb. 24-26,**2011**.
51. **“FEM applications in Engineering,”** Graphic Era, Dehradun, Uttarakhand,27-05-**2011**.
52. **“Fluid Film Bearings,”** 3rd Summer School in Tribology Under the Aegis of Tribology Society of India, IIPM, Gurgaon, 22-06-**2011.**
53. **“Fluid** **Film Lubrication”** IIT Ropar, Punjab, January 7, **2011.**
54. **“Fluid Film Lubrication”** 2nd Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 21-06-**2010.**
55. **“Design and Development of Hydrostatic Bearing”** IIT New Delhi, May 11, **2010.**

**ANNEXURE - 1**

**LIST OF Ph.D. THESIS SUPERVISED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Title** | **Year** | **Candidate** | **Co-Supervisor**  **If any** |
| 1 | Elastohydrostatic Lubrication of Journal Bearing operating with Non- Newtonian Lubricants | 1999 | Prakash Lal Sah | Dr. S.C. Jain |
| 2 | Thermoelastohydrostatic analysis of Non-Recessed Hybrid Journal Bearings | 2000 | Vijay Kumar | Dr. S.C. Jain |
| 3 | Performance of Non-Recessed Hybrid Journal Bearings with Surface Roughness Effects | 2003 | T. Nagaraju | Dr. S.C. Jain |
| 4 | Performance of Multirecess Compensated Flexible Journal Bearing with Recess Shapes | 2004 | Narendra Singh | Dr. S.C. Jain |
| 5 | The Influence of Wear and Running – in on Fluid Film Journal Bearing System | 2006 | Rajeev Kumar Awasthi | Dr. S.C. Jain |
| 6 | Development of Cu-Cr Alloy Based Composite and their Physical and Tribological Properties. | 2009 | Rakesh Kumar Gautam | Dr. S.C. Jain  Dr. S. Ray |
| 7 | Performance of E.R. Fluid Lubricated Hybrid Journal Bearing System | 2010 | J.S. Basavaraja | Dr. S.C. Jain |
| 8 | Fault Diagnosis and Prognosis of High Speed Rotor Bearing Systems | 2011 | Pawan K. Kankar | Dr. S. P. Harsha |
| 9 | Parametric study of Vibration based Electromechanical Coriolis Mass Flow Sensor | 2011 | Pravin P.Patil | Dr. S.C. Jain |
| 10 | Dynamic Analysis of Single Walled Carbon Nanotube Based Mass Sensor | 2012 | Anand Y. Joshi | Dr. S. P. Harsha |
| 11 | Influence of Wear on the Performance of Multirecess Fluid Film Journal Bearings | 2012 | Vikas M. Phalle | Dr. S.C. Jain |
| 12 | Optimum Design Considerations for Steel Cleanliness in Tundish Steelmaking | 2012 | Sabin Mishra | Dr. P. K. Jha  Mr.S. K. Ajmani (TISCO) |
| 13 | Modeling and Evaluation of Mechanical Properties of Carbon Nanotube Reinforced Composites | 2012 | Unnati Pandya | Dr. S. P. Harsha |
| 14 | A Study of Non-Recessed Journal Bearings with Micropolar and Couple stress Lubricants | 2013 | Nathi Ram | --------------- |
| 15 | Study of Geometrically Imperfect Multirecess  Fluid Film Hybrid Journal Bearings | 2014 | Arvind Kumar Rajput | --------------- |
| 16 | Dynamic analysis of Rail Wheel Structure due to defects | 2015 | Nagvendra Kumar | Dr. S. P. Harsha |
| 17 | Design for Assembly-Stack up of Geometrical Tolerances for Cost Optimization | 2015 | Ajay Kumar Sahani | DR. P. K. Jain |
| 18 | Performance Of Multilobe Non-Recessed Hydrostatic/Hybrid Journal Bearings | 2015 | Prashant B. Kushare | --------------- |
| 19 | Analysis of Boron Nitride Nanotube Reinforced Composites | 2015 | Sandesh Trivedi | Dr. S. P. Harsha |
| 20 | Design and Development of Upgraded Draft Gear for Freight Stock vehicle | 2016 | Harak Sachin Sudhakar | Dr. S. P. Harsha |
| 21 | A Study on The Lubrication of Hydrostatic Thrust Pad Bearings | 2016 | Saurabh Kumar Yadav | -------------- |
| 22 | Study and Analysis of Failure of Line Contact Bearing Under Micro EHL Condition | 2016 | G. D. Thakre | Dr. S. P. Harsha  Dr. M. R. Tyagi (I.I.P. Dehradun) |
| 23 | Influence of Geometric Imperfections of Journal in Non-circular Multirecess Hybrid Bearings | 2017 | Dharmendra Jain | -------------- |
| 24 | A Study of Non-Recessed Hybrid Journal Bearings with Textured Surfaces | 2018 | Chandra Bahadur Khatri | -------------- |
| 25 | A Study of Hydrostatic/Hybrid Thrust Pad Bearings Considering Non-Linear Behaviour of Lubricants | 2019 | Vivek Kumar | -------------- |
| 26 | A Study of Elastohydrodynamic Lubricated Soft Contacts | 2019 | Suresh Jadhav | Dr. G. D. Thakre (I.I.P. Dehradun) |
| 27 | A Study on the Performance of Slot Entry Hybrid Journal Bearing | 2021 | Krishnkant Sahu | -------------- |

**LIST OF Ph.D. THESIS Currently Under Progress**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.**  **No.** | **Title** | **Candidate** | **Co-Supervisor**  **If any** |
| 1 | A Study on the Performance of conical Hybrid Journal Bearing | Abhishek Kumar | -------------- |
| 2 | A Study on the Performance of spherical Hybrid Journal Bearing | Adesh Tomar | -------------- |
| 3 | Fault diagenesis of large steam turbine blade using machine learning method | Rajesh Kumar Bhamu | Prof. S. P. Harsha |
| 4 | A study of plain/conical porous journal bearing | Anil Singh | -------------- |
| 5 | A study of hydrostatic/hybrid spherical thrust bearing | Nitin Agrawal | -------------- |
| 6 | A study of Conical Slot journal bearing | Narendra Kumar | -------------- |
| 7 | A Study on the Static and Dynamic Analysis on Secondary Suspension System (Air-Spring) and Draft Gear of railway vehicle | Vikas Tiwari | Prof. S. P. Harsha |

**LIST OF M. TECH. THESIS SUPERVISED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Title** | **Year** | **Candidate** | **Co-Supervisor**  **If any** |
| 1 | Elastohydrostatic Study of 6–Pocket Journal Bearing System | 1992 | Rajiv Shalia | Dr. S.C. Jain |
| 2 | A Knowledge Based System for the Selection and Design of Flanges for Pressure Vessels | 1994 | Pradeep Kumar Koshti | Dr. S.C. Jain |
| 3 | Hybrid Performance of Misaligned Journal Bearing System without Pressure Chambers Between Bearing Surfaces | 1994 | T. Nagaraju | Dr. S.C. Jain |
| 4 | The Effect of Shape and Size of Recesses on the Performance of Compensated Hydrostatic Journal Bearings using FEM | 1995 | Shant Kumar Singh | N. Singh |
| 5 | Performance of Hybrid Bearings in Laminar and Turbulence Regions | 1995 | Anshuman Jagtap | Dr. S.C. Jain |
| 6 | Performance of Flexible Hybrid Bearings in Laminar and Turbulent Regions | 1996 | N. Ramesh Babu | Dr. S.C. Jain |
| 7 | Performance Characteristics of a 6 Pocket Hybrid Flexible Journal Bearing in Turbulent Regime | 1997 | P. Hari Sankar | Dr. S.C. Jain |
| 8 | Performance Characteristics of a Slot Entry Hydrostatic Journal Bearing using Finite Element Method | 1997 | M. Subramanian | --------------- |
| 9 | Effect of Load direction on the Elastohydrostatic Performance of Multirecess Journal Bearings | 1997 | B.V.N. Surendra Kumar | --------------- |
| 10 | Elastohydrostatic Performance of a Slot – Entry Journal Bearing System | 1998 | N. Madhu Mohan Reddy | --------------- |
| 11 | Hydrostatic Performance of a Circular Thrust Pad Bearing with Different Recess Shapes | 1999 | Dipak Kumar K. Bharuka | --------------- |
| 12 | Influence of Thermal Effects on the Performance of Hole – Entry Hybrid Journal Bearings | 2000 | Yuwraj J. Rajput | Dr. S.C. Jain |
| 13 | Performance of Slot - Entry Hybrid Journal Bearing Considering Thermal Effect | 2001 | Girraj Prasad | --------------- |
| 14 | Design of Non Recessed Hybrid Journal Bearing for Optimal Performance Characteristics | 2001 | Pravesh Kant Gupta | Dr. S.C. Jain |
| 15 | Performance of a Multirecess Hydrostatic /Hybrid Journal Bearing of Different Recess Shapes with Membrane Restrictor | 2001 | Nitin Kumar Agarwal | --------------- |
| 16 | Effect of Size of a hole on the Performance of a Hole – Entry Hybrid Journal Bearing | 2001 | Rajneesh Kumar | --------------- |
| 17 | Failure Analysis of Cover Plate of a Head Stock Using Finite Element Method | 2001 | Akhil Kumar Verma | Dr. S.C. Jain |
| 18 | Influence of Surface Roughness Effects on the Performance of Hole – Entry Hybrid Journal Bearing | 2002 | Nathi Ram | Dr. S.C. Jain |
| 19 | Development of a Suitable Mechanism for a Deployable Space Antenna of 5.5 meter diameter | 2002 | Ram Suchit Mishra | Dr. S.C. Jain |
| 20 | Influence of Recess Shape and Bearing Flexibility on the Performance of Membrane Compensated Hybrid Journal Bearing System | 2003 | S. Sanjeeva Reddy | --------------- |
| 21 | Combined Influence of Journal Misalignment and Recess Shape on the Performance of Hydrostatic Journal Bearing System | 2003 | Devesh Ranjan Mall | N. Singh |
| 22 | A Study of Slot Entry Hybrid Journal Bearing System considering Surface Roughness | 2003 | Kamlesh Suresh Pandhare | Dr. S .C. Jain |
| 23 | Design of Axi – Symmetric Deployable Reflection Antenna for Communication Satellite | 2003 | Jopaul K. Ignatius | Dr. S.C. Jain |
| 24 | Simulated Study of Sliding Wear | 2004 | Vinod Dnyaneshwar Patil | Dr. S.C. Jain |
| 25 | Influence of Geometric Shape of Recess on the Performance of a Six – Pocket Hydrostatic / Hybrid Journal Bearing System | 2004 | Bhaskar Rao Mattapally | --------------- |
| 26 | Performance of Multirecess Hydrostatic / Hybrid Journal Bearing Considering Combined Influence of Recess Shape and Non-Newtonian Behaviour of Lubricant; | 2005 | Jitendra Singh Rathore | Dr. S.C. Jain |
| 27 | To Study the Performance Characteristics of Total Cross Flow (TCF) Multirecess Hydrostatic / Hybrid Journal Bearing | 2006 | Paras Kumar | Dr. S.C. Jain |
| 28 | A Theoretical Analysis of a Cow Catcher | 2006 | Anil Kumar | Dr. V.K. Goel |
| 29 | Performance of Multilobe Multirecess Hybrid Journal Bearing | 2007 | Prashant B Kushare | Dr. S.C. Jain |
| 30 | Combined Influence of Hole Size and Journal Misalignment on the Performance of Hole – Entry Hybrid Journal Bearing | 2007 | Neeraj Sharma | --------------- |
| 31 | Finite Element Analysis of Plano – Milling Machine Tool Structure | 2007 | Migbar Assefa | Dr. N.K. Mehta |
| 32 | Design of Two – Lobe Hydrodynamic Journal Bearings | 2008 | Arpan Nagar | Dr. S.C. Jain |
| 33 | A Study on the Performance of Coriolis Mass Flowmeter | 2009 | Maj. Ashish Vasudev | Dr. Ravi Kumar |
| 34 | Influence of Wear on the Performance of Capillary Compensated Hydrostatic/ Hybrid Journal Bearing | 2009 | Vijaya Kumar. E. | --------------- |
| 35 | Dynamic Behaviour of Damper in an End-Mill | 2009 | Ravikant Mittal | Dr. S.P. Harsha |
| 36 | Modeling and Simulation of Roller Chain Drive | 2009 | Mahendra Kumar. Jangid | Dr. S.P. Harsha |
| 37 | Thermohydrodynamic Analysis of Tilting Pad Thrust Bearing | 2009 | Gobind Sarkar | Dr. S.C. Jain |
| 38 | Finite Element Analysis of Vibration Based Mass Flow Sensor | 2010 | Prabhakar Singh | Dr. Ravi Kumar |
| 39 | Investigation of Inclusion Removal Process In Tundish Steel Making Process | 2010 | Ambrish Maurya | Dr. P K Jha |
| 40 | Fault Analysis of Single Walled Carbon Nanotube | 2010 | Ashish Bhatnagar | Dr. S.P. Harsha |
| 41 | Fault Diagnosis of High Speed Rotor Bearing System Using Machine Learning Techniques | 2010 | Kalyan Manohar Bhavraju | Dr. S.P. Harsha |
| 42 | Optimization of Journal Bearing | 2010 | Anaskure Avinash Suresh | --------------- |
| 43 | A Study on the Performance of Hydrostatic/Hybrid Journal Bearing Considering Combined Influence of Wear and Micropolar Lubrication | 2010 | E. Rajsekhar Nicodemus | --------------- |
| 44 | Performance Evaluation of Coriolis Mass Flow Sensor | 2011 | Arvind Kumar Rajput | --------------- |
| 45 | Finite Element Method and Artificial Intelligence Based Modeling of Mixed-Mode Crack Propagation in Thin Structural Steel Sheet | 2011 | Dharmendra Jain | Dr. M. M. Mahapatra |
| 46 | A Computational Study of Mechanical Properties of CNT Composites for Various Defects | 2011 | Preeti Joshi | Dr. S.P. Harsha |
| 47 | Dynamic Analysis of Single Wall Carbon Nanotubes as a Bio-Sensors | 2011 | Kuldeep Gupta | Dr. S.P. Harsha |
| 48 | A Study on the Performance of Hole-Entry Hybrid Journal Bearings Operating in Turbulent Regime | 2011 | Devendra Sankla | --------------- |
| 49 | A study of turbulent lubricated hydrostatic/ hybrid multirecess 3 lobe journal bearing | 2012 | Amit Kumar | --------------- |
| 50 | Influence of wear on the performance of slot- entry journal bearings operating in turbulent regime | 2012 | Patil Kiran Shivaji | --------------- |
| 51 | Health Diagnosis of High Speed Ball Bearing Acoustic Emission Technique | 2012 | Patil Pravin Ganpati | Dr. S.P. Harsha |
| 52 | Combined Influence of Wear on the Performance of 2- Lobe Six Pocket Hybrid Journal Bearing System in Turbulence Regime | 2012 | J. Saravanan | Dr. S. H. Upadhyay |
| 53 | FEM Analysis of Rail Wheel of Passenger Coaches | 2012 | Pankaj Kumar Bhardwaj | Dr. S.P. Harsha |
| 54 | Dynamic Analysis of Carbon Nanotube based Mass- Sensors using Continuum/ Molecular Mechanics Approach | 2012 | Ankit Gupta | Dr. S.P. Harsha |
| 55 | Modeling and Simulation of Freight Railway Vehicle | 2013 | Mulu Girmay | Dr. S.P. Harsha |
| 56 | Weight Optimization of Railway Freight Bogie | 2013 | Tony Thomas | Dr. S.P. Harsha |
| 57 | Performance Evaluation of Tilting Pad Hydrodynamic Journal Bearing | 2013 | Ashish Sharma | Dr. S.P. Harsha |
| 58 | Friction Studies of EHL Lubricated Contacts | 2013 | Saurabh Chauhan | Dr. S.P. Harsha |
| 59 | Performance of 2-Lobed Hydrostatic/Hybrid Journal Bearing Operation in Turbulent Regime | 2013 | Raja P. | --------------- |
| 60 | Dynamic Analysis of Rail Wheel Interaction | 2013 | Avinash Anand | Dr. S. H. Upadhyay |
| 61 | Dynamic Analysis of Upgraded Draft Gear in Freight Wagon | 2014 | Pawar Sanket Kartarsing | Dr. S.P. Harsha |
| 62 | Analysis of Fishplate Joint in a Curved rail Track | 2014 | Prabhat Kumar Chanchal | Dr. Anil Kumar-II |
| 63 | Design of a compound spring suspension System for a HHP locomotive | 2014 | Pradeep Kumar Yadav (Part Time) | Dr. Anil Kumar-II |
| 64 | Performance Analysis of a Tilting pad hydrodynamic Journal bearing operating in Turbulent Regime | 2014 | Aasheesh Kumar | Dr. S.P. Harsha |
| 65 | Realistic Prediction of Rail Stresses | 2014 | Manish Tagnoo | Dr. Anil Kumar-II |
| 66 | Prognostics Of High Speed Rolling Element Bearings | 2015 | Abhishek Rawat | Dr. S.P. Harsha |
| 67 | A Numerical Study Of Rail Stress Calculations For High Speed Freight Wagons | 2015 | Apul Nautiyal | Dr. Anil Kumar-II |
| 68 | Influence Of Pivots Stiffness On The Performance Of Tilting Pad Hydrodynamic Journal Bearings | 2015 | Deepak Chandra Pargain | Dr. Anil Kumar-II |
| 69 | Performance Of Partial Arc Hydrostatic/Hybrid Multi-Recess Journal Bearings Considering Wear. | 2015 | Jeewan Chandra Atwal | Dr. S.P. Harsha |
| 70 | Modeling Of Elevated Temperature Abrasive Wear Characteristics Of Grain Refined Alumunium Based Metal Matrix Composites. | 2015 | Jagan Nath Mohapatra | Dr. M.M Mahapatra |
| 71 | Dynamic Analysis Of Freight Railway Vehicles | 2015 | Shashank B. Kedare | Dr. S.P. Harsha |
| 72 | A Study of 180 Degree Partial Arc Orifice Compensated Hydrostatic/Hybrid Journal Bearings | 2016 | Amar Jeet | --------------- |
| 73 | Influence of Viscosity Variation Due to Pressure on The Performance of Two lobed Hydrostatic/Hybrid Journal Bearings | 2016 | Manoj Kumar | -------------- |
| 74 | A Study of Suspension System of High Speed Trains | 2016 | Sahil Jaggi | Dr. S.P. Harsha |
| 75 | A Study of Transient Analysis of 4-pocket Multi-recess Journal Bearing | 2016 | Kshirsagar Onkar Yashwant | Dr. S. H. Upadhyay |
| 76 | Performance of Geometrically Imperfected two-lobe CFV compensated hybrid journal bearing lubricated with non-Newtonian lubricant | 2017 | Barun Sharma | ------------- |
| 77 | Finite element analysis of sandwich functionally graded material plate | 2019 | Patil Bhushan Arun | ------------- |
| 78 | Dynamic analysis of rail wheel interaction for freight wagon (Under progress) | 2019 | Pulkit Mahera | ------------- |
| 79 | Static and Dynamic Analysis of Airspring as a Suspension Device of Railway Vehicle | 2020 | Shubham Kumar | Dr. S.P. Harsha |
| 80 | Dynamics Analysis of Draft Gear | 2020 | Harshit Rawat | Dr. S.P. Harsha |
| 81 | Evaluation of Ride Index and Ride Comfort of Railway Vehicle for Indian Railway | 2021 | Arun Kumar | Dr. S.P. Harsha |
| 82 | Ride Comfort Analysis of Smart Material based Secondary Suspension in railway Vehicle | Under Progress | Amit Kumar | Dr. S.P. Harsha |

**ANNEXURE – 2**

**Book/Series/Chapters Published**

1. **Satish C. Sharma,** “Tribology in Machine Components” Book Chapter fromTribology for Scientists and Engineers: From Basics to Advanced Concepts, **Springer New York, USA**, pp 821-879, **2013.**
2. Sahani A K, Jain P K and **Sharma Satish C**, “Geometrical Tolerance Stack up Techniques”, Chapter 52 in DAAAM International Scientific Book, **Vienna Austria,** pp 857-872, **2013.**
3. Pravin P Patil, **Satish C. Sharma,** S.C. Jain,Modeling Copper omega type Coriolis Mass Flow Sensor with an aid of ANFIS tool**,** Advances in Intelligent and Soft Computing ***–*** series Part-II, Springer, pp.131-140,**2011.**

**Research Paper published in Key International journals:**

* ASME Journal of Tribology (ASME)
* Tribology International (Elsevier)
* STLE Tribology Transactions(USA)
* WEAR (Elsevier)
* Engineering Failure Analysis
* Lubrication Science
* Physica E
* Journal of Nonlinear Dynamics
* Journal of Computational and Nonlinear Dynamics,
* Neurocomputing
* Expert Systems with Application
* Advances in Tribology (Hindawi)
* Finite Element in Analysis and Design (Elsevier)
* Instruments and Experimental Techniques (Springer)European Journal of Mechanics / A Solids (Elsevier)
* Industrial Lubrication and Tribology(Emerald)
* IJMME (UMIST)
* International Journal of Machine Tools and Manufacture (UK)
* Measurement (Elsevier)
* ASME Journal of Nanotechnology in Engineering and Medicine
* Sensors and transducers journal (IFSA, Spain)
* Computational Material Science
* ASME Journal of Dynamic Systems, Measurement and Control
* Meccanica
* Acta Mechanica

**LIST OF PUBLICATIONS:**

**International Peer Reviewed Journals:**

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1. Krishnkant Sahu, **Satish C. Sharma,** and Nathi Ram, " The Effect of Misaligned Journal Conditions in Slot-entry MR Fluid Lubricated Journal Bearing in the Presence of Bearing Surface Irregularities." International Journal of Mechanical Sciences **(2022)**: **(**Accepted)**.**
2. **Satish C. Sharma**, and Nitin Agrawal “Performance of a Spherical Hybrid Thrust Bearing Considering the Influence of Surface Irregularities and MR Lubricant Behaviour”, ‘STLE Tribology Transactions’, **2022,** **(**In Press)**.**
3. Anil Singh, and **Satish C. Sharma, “**"Influence of geometric imperfection of journal on the performance of porous hybrid journal bearing under turbulent condition”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2022, (**In Press).
4. Kumar, Abhishek, and **Satish C. Sharma**, “Ferrofluid Lubrication of Optimized Spiral-Grooved Conical Hybrid Journal Bearing using Current Carrying Wire Model. "ASME Journal of Tribology” 144.4 **(2022):** 041801.
5. Tomar, Adesh Kumar, and **Satish C. Sharma,** " Study on Surface Roughness and Piezo-viscous Shear thinning Lubricant Effects on the Performance of Hole-entry Hybrid Spherical Journal Bearing “Tribology International”, [Volume 1](https://www.sciencedirect.com/science/journal/0301679X/153/supp/C)68, April **2022**, 107349.

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1. Bhamu, Rajesh K., Aakash Shukla, **Satish C. Sharma,** and S. P. Harsha. " Low Cycle Fatigue Life Prediction of LP Steam Turbine Blade for Various Blade-Rotor Fixity Conditions" Journal of Failure Analysis and Prevention **(2021).**
2. Vikas Tiwari, **Satish C. Sharma,** and S. P. Harsha. "A Comparative Study on the Behaviour of Ride Quality due to Deflated State of Air Spring using different Properties of Hyperelastic Material." International Journal of Structural Stability and Dynamics, **(2021).**
3. Narendra Kumar, and **Satish C. Sharma, “**"Influence of MR lubricant behavior on the Performance of Annular Recessed Orifice Compensated Non-Textured/Textured Thrust pad bearing”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2021, (**DOI: 10.1177/13506501211031376).
4. Nitin Agrawal, and **Satish C. Sharma, “**"Performance of textured spherical thrust hybrid bearing operating with shear thinning and piezoviscous lubricants”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2021, (**DOI: 10.1177/13506501211048308).
5. **Sharma, Satish C.,** and Adesh Kumar Tomar. "Study on MR Fluid Hybrid Hole-Entry Spherical Journal Bearing with Micro-Grooves." International Journal of Mechanical Sciences **(2021)**: [Volume 202-203](https://www.sciencedirect.com/science/journal/0301679X/153/supp/C); 106504.
6. Kumar, Abhishek, and **Satish C. Sharma**, “Magneto-Hydrodynamics of Lubricant in Recessed Conical Hybrid Journal Bearing with Taper Error. "ASME Journal of Tribology” 143.8 **(2021):** 081801.
7. **Satish C. Sharma,** andKrishnkant Sahu, **“**On the Behavior of Ferrofluid Lubricated Herringbone Grooved Hybrid Slot-entry Bearing”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2021.** ([doi.org/10.1177/1350650121997241](https://doi.org/10.1177%2F1350650121997241))
8. **Satish C. Sharma**, and Kumar, Abhishek, “On the behaviour of roughened conical hybrid journal bearing system operating with MR lubricant. " Tribology International” Volume 156, April **2021**, 106824.
9. **Satish C. Sharma**, and Anil Singh “Behaviour of Conical Porous Hybrid Journal Bearing with Pseudoplastic Lubricant”, ‘STLE Tribology Transactions’, **2021,** 64:3, 413-433, DOI: 10.1080/10402004.2020.1850958**.**
10. Nitin Agrawal and **Satish C. Sharma,** “Effect of the ER lubricant behaviour on the performance of spherical recessed hydrostatic thrust bearing”, in “Tribology International”, [Volume 153](https://www.sciencedirect.com/science/journal/0301679X/153/supp/C" \o "Go to table of contents for this volume/issue), January **2021**, 106621**.**
11. Anil Singh, and **Satish C. Sharma,** " Analysis of a double layer porous hybrid journal bearing considering the combined influence of wear and non- Newtonian behaviour of lubricant." ‘Meccanica’, 56(1),73–98 **(2021),** (DOI: https://doi.org/10.1007/s11012-020-01259-2)**.**
12. Bhamu, Rajesh K., Aakash Shukla, **Satish C. Sharma,** and S. P. Harsha. "Dynamic Analysis of Low-Pressure Steam Turbine Last Stage Fir-Tree Root Blade." Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 4, no. 2 **(2021).**
13. Anil Singh, and **Satish C. Sharma, “**"Influence of geometric imperfection of journal on the performance of porous hybrid journal bearing under turbulent condition”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2021, (**doi.org/10.1177/1350650120976427).

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1. Vivek Kumar, **Satish C. Sharma, “**Performance analysis of rough surface hybrid thrust bearing with elliptical dimples”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2020, (**doi.org/10.1177/1350650120931981)**.**
2. Tomar, Adesh Kumar, and **Satish C. Sharma**, "A Study of Hole-Entry Grooved Surface Hybrid Spherical Journal Bearing Operating with Electrorheological Lubricant" ASME Journal of Tribology”,142.11 **(2020).**
3. Tomar, Adesh Kumar, and **Satish C. Sharma,** "An investigation into surface texture effect on hole-entry hybrid spherical journal bearing performance “Tribology International”, 151.11 **(2020):** 106417.
4. Kumar, Vivek; Shah, Vatsalkumar; Singh, Simran; Narwat, Kuldeep and **Satish C. Sharma, “**Rotor-dynamic Performance of Porous Hydrostatic Thrust Bearing Operating Under Magnetic field”, ‘Industrial Lubrication and Tribology’ **2020,** (10.1108/ILT-07-2020-0289)**.**
5. Kumar, Navin, Akash Shukla, Sanjay Bansal, Chandra B. Khatri, Gannath D. Thakre, Saurabh K. Yadav, **Satish C. Sharma**, and Suraj P. Harsha.**, “**Thermo-hydrodynamic Simulation Study of Twin-groove Elliptical (two-lobe) Journal Bearing of Steam Turbine with experimental investigations”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2020,** (doi.org/10.1177/1350650120973798).

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2. Vivek Kumar, **Satish C. Sharma, “**Effect of geometric shape of micro grooves on the performance of textured hybrid thrust pad bearing”, ‘Journal of the Brazilian Society of Mechanical Sciences and Engineering’ **(2019)** 41: 508. https://doi.org/10.1007/s40430-019-2016-0
3. Adesh Kumar Tomar, **Satish C. Sharma, “**Finite element analysis of multi-recess hybrid spherical journal bearing system”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2019.** (DOI: 10.1177/1350650119884829)
4. Vivek Kumar, **Satish C. Sharma, “**Influence of microgroove attributes on frictional power loss and load carrying capacity of hybrid thrust bearing”, ‘Industrial Lubrication and Tribology’ **2019**. (10.1108/ILT-07-2019-0278)
5. Krishnkant Sahu and **Satish C. Sharma,** “Magneto-rheological Fluid Slot-Entry Journal Bearing Considering Thermal Effects”, Journal of Intelligent Material Systems and Structures, Volume: 30 issue: 18-19, page(s): 2831-2852, **2019**. (DOI-10.1177/1045389X19873401)
6. Krishnkant Sahu and **Satish C. Sharma**, “A Simulation Study on the Behavior of Magnetorheological Fluid on Herringbone Grooved Hybrid Slot-entry Bearing”, ‘STLE Tribology Transactions’, **2019**, Pages 1099-1118, 62:6, (DOI-10.1080/10402004.2019.1649775).
7. Vivek Kumar, **Satish C. Sharma, “**Magneto-hydrostatic lubrication of thrust bearings considering different configurations of recess”, ‘Industrial Lubrication and Tribology’ **2019**, (DOI-10.1108/ILT-10-2018-0370).
8. Kumar, Abhishek, and **Satish C. Sharma**, “Optimal Parameters of Grooved Conical Hybrid Journal Bearing with Shear Thinning and Piezo-viscous Lubricant Behavior. "ASME Journal of Tribology” 141.7 **(2019)**, pp.07-17(02) (DOI- 10.1115/1.4043507).
9. Abhishek Kumar, and **Satish C. Sharma,** "Textured conical hybrid journal bearing with ER lubricant behavior." ‘Tribology International’, 129 **(2019),** 363-376. (DOI**.**10.1016/j.triboint.2018.08.040).

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1. Suresh Jadhav, G. D. Thakre and **Satish C. Sharma**, "Numerical modeling of elastohydrodynamic lubrication of line contact lubricated with micropolar fluid." ‘Journal of the Brazilian Society of Mechanical Sciences and Engineering’ 40.6:326, **2018**.
2. **Satish C. Sharma** and Chandra B. Khatri, “Electro-rheological fluid lubricated textured multi-lobe hole-entry hybrid journal bearing system”, ‘Journal of Intelligent Material Systems and Structures’, 29.8: 1600-1619, **2018**.
3. Vivek Kumar, **Satish C. Sharma, “**Dynamic characteristics of compensated hydrostatic thrust pad bearing subjected to external transverse magnetic field”, ‘Acta Mechanica’, 229.3: 1251-1274, **2018**.
4. Saurabh K. Yadav, Arvind K. Rajput, Nathi Ram and **Satish C. Sharma**, “A direct numerical approach to compute the nonlinear rotordynamic coefficient of the non-circular gas journal Bearing”, ‘IMechE Part-J, Journal of Engineering Tribology’, 232.4: 453-468, **2018**.
5. Saurabh K. Yadav, Arvind K. Rajput, Nathi Ram and **Satish C. Sharma**, "A novel technique to compute static and dynamic performance characteristics of aerostatic thrust bearing" ‘Industrial Lubrication and Tribology’ 70.1: 84-96, **2018**.
6. Vivek Kumar, **Satish C. Sharma,** Finite element method analysis of hydrostatic thrust pad bearings operating with electrically conducting lubricant”, ‘IMechE Part-J, Journal of Engineering Tribology’, **2018**, DOI: 1350650117753530.
7. Chandra B. Khatri and **Satish C. Sharma**, "Analysis of textured multi-lobe non-recessed hybrid journal bearings with various restrictors", ‘International Journal of Mechanical Sciences’*,* 145: 258-286, **2018.**
8. Krishnkant Sahu, **Satish C. Sharma,** “A study on performance of slot-entry hybrid journal bearing considering of effect of surface irregularities”, ‘Industrial Lubrication and Tribology’, **2018**, (DOI: [10.1108/ILT-09-2017-0264](https://doi.org/10.1108/ILT-09-2017-0264))
9. Jadhav, Suresh, Gananath D. Thakre, and **Satish C. Sharma,** "An experimental study on tribological performance and surface characteristics of lubricated point contact." ‘Acta Mechanica’ (2018): 1-18.
10. Vivek Kumar, and **Satish C. Sharma,** "Influence of dimple geometry and micro-roughness orientation on performance of textured hybrid thrust pad bearing." ‘Meccanica’ 53.14 (2018): 3579-3606.

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