



CURRICULUM VITAE

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| Name: | Dr. M. M. Shivashimpi |  |
| Designation: | Associate Professor | |
| Department: | Mechanical Engineering | |
| Specialization & Research Interests: | Thermal Power Engineering Internal Combustion Engine, Alternate Fuels, Heat Transfer and Renewable Energy Resources | |
| Email IDs (Official & Personal) | mmshivashimpi.mech@hsit.ac.in | |
| Mobile No.: | +91-9742197173 | |
| Address: | Chavan Colony, House No.: 200, At Post : Hulyal, Taluk: Jamkhandi, District: Bagalkote, Karnataka - 587301 | |

2. ACADEMIC QUALIFICATION:

| Degree | Year | University/Board |
|--------|------|------------------|
| Ph.D. | 2022 | VTU Belagavi |
| M.Tech | 2010 | VTU Belagavi |
| B.E. | 2006 | VTU Belagavi |

3. PROFESSIONAL EXPERIENCE:

| Organization/Institute/University | Position Held | Duration |
|---|---------------------------|------------------------------|
| Hirasugar Institute of Technology, Nidasoshi | Associate Professor | July 2022 to Till Date |
| Hirasugar Institute of Technology, Nidasoshi | Asst. Professor | Aug 2015 To June 2022 |
| Hirasugar Institute of Technology, Nidasoshi | Senior Lecturer | October 2012 To August 2015 |
| Hirasugar Institute of Technology, Nidasoshi | Lecturer | October 2008 To October 2012 |
| M.P. Engineering Works, Designers and Manufactures of Sugar Chemical and Turnkey Projects, Mudhol Karnataka | Graduate Trainee Engineer | June 2006 To June 2007 |

4. ADMINISTRATIVE ASSIGNMENTS:

| Position Held | Duration | Nature of Work |
|---|-----------------------------|--|
| NAAC Criteria Co-convener | June 2023 to Till Date | Report Preparation and Documentation |
| Dean Examinations | September 2022 to Till Date | Exam Controller |
| Research and Development Coordinator | June 2019 to June 2023 | Assisting to Research Scholars and Documentation |
| NBA Criteria Coordinator | June 2017 to Till Date | Report Preparation and Documentation |
| NAAC Criteria Member | June 2017 to Till Date | Report Preparation and Documentation |
| Department Association Coordinator | June 2013 to Till date | Conduct Departmental Activities, Association Finance Maintenance and Documentation |
| News Letter & Technical Magazine Coordinators | June 2013 to Till date | Preparation and Publishing |

5. COURSES TAUGHT:

- Basic Thermodynamics
- Applied Thermodynamics
- Fluid Mechanics
- Turbo Machines
- Hydraulics & Pneumatics
- Energy Engineering
- Automotive Engineering
- Internal Combustion Engine
- Heat & Mass Transfer
- Engine flow and Combustion
- Research Methodology and IPR
- Energy Engineering
- Total Quality Management
- Nonconventional Energy Sources
- Energy and Environment
- Thermo Fluids Engineering

6. RESEARCH SUPERVISION:**A. Ph.D:**

i. Awarded : NIL

ii. Submitted : NIL

iii. Ongoing : NIL

B: M.Tech.

i. Awarded : 01

ii. Submitted : NIL

iii. Ongoing : 01

C. BE/B.Tech Degree Oriented (Bachelor Level Dissertation):

i. Awarded : 22

ii. Submitted : NIL

iii. Ongoing : 01

7. CONTRIBUTION TO CORPORATE LIFE OF THE INSTITUTE:

- VGST under K-FIST L1 Government of Karnataka sectioned Rs. 20 lakh for the research proposal on “Establishing the facility for-dynamic fatigue systems to study fatigue properties of surface characterized engineering materials”.

8. MEMBERSHIP OF SOCIETIES/PROFESSIONAL BODIES:

i. Life Member of ISTE

9. PUBLICATIONS:

A. BOOKS/MONOGRAPHS:

1. Authored:

1. Mahantesh M Shivashimpi, S.A. Alur, S. N. Topannavar and B. M. Dodamani (2018). Combined Effect of Cylindrical Combustion Chamber Shape and Nozzle Geometry on the Performance and Emission Characteristics of C.I. Engine Operated on Pongamia. Mechanical Engineering for Sustainable Development State of the Art Research, Apple Academic Press publishers, CRC press distributor, Taylor and Francis Group, PP (345-359), ISBN ebook: 978-1-351-17016-1.

2. Edited: NIL

B. PAPERS IN REFEREED/PEER REVIEWED JOURNALS:

1. Mahantesh M. Shivashimpi, S.A. Alur, S. N. Topannavar and B. M. Dodamani (2018). Combined Effect of Combustion Chamber Shapes and Nozzle Geometry on the Performance and Emission Characteristics of CI Engine Operated on Pongamia. Energy, Elsevier, Volume 154, Pages 17- 26.
2. Mahantesh M. Shivashimpi, N. R. Banapurmath, S. A. Alur and B. M. Dodamani (2019). Optimization of Nozzle Geometry in the Modified Common Rail Direct Injection Biodiesel-Fuelled Diesel Engine. International Journal of Ambient Energy, Taylor and Francis, 1-9, DOI: 10.1080/01430750.2019.1670726.

3. S.S. Kattimani, S. N. Topannavar, Mahantesh M. Shivashimpi and B. M. Dodamani (2020). Experimental investigation to optimize fuel injection strategies and compression ratio on single cylinder DI diesel engine operated with FOME biodiesel. *Energy, Elsevier*, 117336.
4. K. M. Akkoli, N.R. Banapurmath, Mahantesh M. Shivashimpi, Soudagar ME, Badruddin IA, Alazwari MA, Yaliwal VS, Mujtaba MA, Akram N, Goodarzi M, Safaei MR (2021). Effect of injection parameters and producer gas derived from redgram stalk on the performance and emission characteristics of a diesel engine. *Alexandria Engineering Journal. Energy, Elsevier*, 1; 60(3):3133-42.
5. Mahantesh M. Shivashimpi, N.R. Banapurmath, S. A. Alur and S. V. Khandal (2018). Effect of Combustion Chamber Shapes, Nozzle Holes Geometries, Injection Pressures and Injection Timing on the Performance Diesel Engine Fueled with Palm Oil Methyl Ester. *European Journal of Sustainable Development Research*, 2(3), 35. <https://doi.org/10.20897/ejosdr/2667>.
6. Mahantesh M. Shivashimpi, N.R. Banapurmath, S .A. Alur and S. V. Khandal (2019). Effect of Injection Parameters: Injection Timing and Injection Pressure on the Performance of Diesel Engine Fueled with Palm Oil Methyl Ester. *European Journal of Sustainable Development Research*, 3(2), em0077. <https://doi.org/10.20897/ejosdr/3918>.
7. Mahantesh M. Shivashimpi, N.R. Banapurmath and S. A. Alur (2019). Effect of Injection Parameters: Injection Timing and Injection Pressure on the Performance, Emission and Combustion Characteristics of CRDI Diesel Engine Operate with Palm Oil Methyl Ester (POME). *European Journal of Sustainable Development Research*, 3(3), em0091. <https://doi.org/10.20897/ejosdr/3977>.
8. Mahantesh M. Shivashimpi, S.A. Alur, N.R. Banapurmath and U.C. Kapale (2019). Optimization of Multiple Injection Strategy in Modified Common Rail Direct Injection Diesel Engine Powered with Palm Oil Methyl Ester. *International Journal of Computational and Theoretical Chemistry*, Vol. 7, No. 1, 2019, pp. 87-99 <https://doi: 10.11648/j.ijctc.20190701.20>.
9. Mahantesh M. Shivashimpi, S. A. Alur, R.S. Ellur, Jagadeesh A and M.R. Ingalagi (2018). Effect of Nozzle Geometry on the Performance and Emission Characteristics of C.I. Engine Operated on Palm Oil Methyl Ester. *Journal of Emerging Technologies and Innovative Research (ISSN: 2349-5162)*, Volume 5 Issue 8, 697-702.
10. Mahantesh M. Shivashimpi, S.A. Alur and S. N. Topannavar (2016). Effect of Cylindrical Combustion Chamber Shape on the Performance of and Emission Characteristics of C.I. Engine Operated on Pongamia. *International Journal of Advances in Science and Technology*, Volume 12, Issue No 25(Special Issue), ISSN 2230-9659.
11. Pritam Prakash Tippannavar, Mahantesh M. Shivashimpi and S. A. Alur (2019). Combined Effect of Toroidal Combustion Chamber Shape and Nozzle Geometry on the Performance of Bio-Diesel Fueled C-I engine. *A Journal of Composition Theory*, Volume XII, Issue VI.

12. Allamaprabhu. B. Shigihalli, Mahantesh. M. Shivashimpi, Akhilesh Patil and Aparai Huddar (2018). Effect of Toroidal Combustion Chamber Shape, Nozzle Geometry, Injection Pressure, EGR on the Performance of Biodiesel Fuelled Diesel Engine and Validation Through Taguchi Analysis. International Research Journal of Engineering and Technology, Volume: 05 Issue: 09, 1137- 1148.
13. Mahantesh M. Shivashimpi, S. A. Alur, Jagadeesh A, M.R. Ingalagi and Bhimanagoud M Dodamani (2018). Effect of Injection Pressure and Nozzle Geometry on the Performance and Emission Characteristics of Diesel Engine Operated with Palm Oil Methyl Ester. International Journal of Prevention and Control of Industrial Pollution, Vol. 4: Issue 2, 14-21.
14. K. M. Akkoli, S. A. Goudadi, Mahantesh. M. Shivashimpi and S. N. Topannavar (2020). Biomass Characterization and Gasifier Design for Agricultural Residues. Iranian (Iranica) Journal of Energy and Environment 11(3): 198-203.
15. Shivashimpi, M. M., S. A. Alur, and N. R. Banapurmath. "Exhaust Gas Recirculation as a NOx Reduction Technique for Modified POME Fuelled Diesel Engine." International Journal of Vehicle Structures & Systems (IJVSS) 14, no. 2 (2022).
16. Akkoli, K. M., S. C. Kamate, S. N. Topannavar, A. R. Bhavimani, N. R. Banapurmath, Ibham Veza, Manzoore Elahi M. Soudagar et al. "Influence of Injection Pressure and Aluminium Oxide Nano Particle-Added Fish Oil Methyl Ester on the Performance and Emission of Compression Ignition Engine." Energies 15, no. 24 (2022): 9491.
17. Alur, S. A., M. M. Shivashimpi, K. M. Akkoli, N. R. Banapurmath, D. Sakthivel, Yogesh Diliprao Sonawane, Saiful Islam, Prabhakar Sharma, Mohammad Amir Khan, and Abdul Razak. "Optimization and modelling of EGR rate and MIS for POME fuelled CRDI diesel engine." Case Studies in Thermal Engineering (2023): 103170.
18. M M Shivashimpi, Girish Zulapi, M S Futane, Akash P Madihalli, Shivaprabhu Patrot, Omkar Patil "Effect of Algae Biodiesel on Performance, Combustion and Smoke Characteristics of CI Engine". International Journal of Advance Research in Science and Engineering, Volume No.12, Issue No.12, December 2023.

C. PAPERS IN CONFERENCES PROCEEDINGS:

1. S. S. Kattimani, S.N. Topannavar, Mahantesh M. Shivashimpi and B. M. Dodamani (2019). Experimental Investigation of Compression Ratio and Fuel Injection Strategies on Single Cylinder DI Diesel Engine Operated with FOME Biodiesel. Advances in Power Generation from Renewable Energy Sources.

10. RESEARCH PROJECTS (COMPLETED/ONGOING):

1. The project entitled Mixed Mode Solar Cabinet Drier selected and sponsored an amount of Rs. 5,500 under the 43rd Student Project Programme of Karnataka State Council for Science and Technology Indian Institute of Science Campus, Bengaluru.

2. The project entitled Investigation of Mechanical Properties Natural and Hybrid Composite Material Using GP Resin selected and sponsored an amount of Rs. 6,000 under the 44th Student Project Programme of Karnataka State Council for Science and Technology Indian Institute of Science Campus, Bengaluru.
3. The project entitled Advanced Mixed Mode Solar Cabinet Dryer and sponsored an amount of Rs. 8,000 under the 45th Student Project Programme of Karnataka State Council for Science and Technology Indian Institute of Science Campus, Bengaluru.
4. VGST under K-FIST L1 Government of Karnataka sectioned Rs. 20 lakh for the research proposal on “Establishing the facility for-dynamic fatigue systems to study fatigue properties of surface characterized engineering materials”.

11. PARTICIPATION & PRESENTATIONS IN SEMINARS /SYMPOSIA/ WORKSHOPS/ CONFERENCES:

I. Participation & Presentations in Conferences

1. Mahantesh M Shivashimpi, S.A. Alur, S. N. Topannavar and B. M. Dodamani. Combined Effect of Cylindrical Combustion Chamber Shape and Nozzle Geometry on the Performance and Emission Characteristics of C.I. Engine Operated on Pongamia. 1st International and 18th National ISME Conference on Enabling Sustainable Development in Mechanical Engineering, (ISME-2017) held during Feb 23-25, 2017 at the National Institute of Technology, Warangal, India
2. Mahantesh M Shivashimpi, S.A. Alur and S. N. Topannavar. Effect of Cylindrical Combustion Chamber Shape on the Performance and Emission Characteristics of C.I. Engine Operated on Pongamia. International Conference on Recent Innovations in Engineering (ICRIE-2016) held from 8th and 9th October 2016 at Hirasugar Institute of Technology Nidasoshi, Belagavi India.
3. Mahantesh M. Shivashimpi, S. A. Alur, R.S. Ellur, Jagadeesh A and M.R. Ingalagi. Effect of Nozzle geometry on the performance and emission characteristics of C.I Engine operated on Palm oil Methyl Ester. 1st International Conference on Recent Innovations in Science, Engineering & Technology (ICRISET-2018) held from 18th to 19th May 2018 at Hirasugar Institute of Technology, Nidasoshi, Belagavi in association with Labtech Innovations Guduvanchery, Chennai, India.
4. Pritam Prakash Tippannavar, Mahantesh M. Shivashimpi and S. A. Alur. Combined effect of Toroidal Combustion Chamber Shape and Nozzle Geometry on the Performance of Biodiesel Fuelled C.I. Engine. 2nd International Conference on Recent Innovations in Science, Engineering & Technology (ICRISET-2019) held from 18th to 19th July 2019 at Hirasugar Institute of Technology, Nidasoshi, Belagavi in association with Labtech Innovations, Guduvanchery, Chennai, India.
5. Mahantesh M. Shivashimpi, S.A. Alur and N.R. Banapurmath. EGR As a NO_x Reduction Technique for Modified POME Fuelled Diesel Engine. 3rd International Conference on Advances in

Mechanical Engineering and Nanotechnology (ICAMEN-2021) held from 18th to 19th March 2021 at Manipal University Jaipur, R&C NIT Uttarakhand.

6. M M Shivashimpi, Girish Zulapi, M S Futane, Akash P Madihalli, Shivaprabhu Patrot, Omkar Patil "Effect of Algae Biodiesel on Performance, Combustion and Smoke Characteristics of CI Engine". International Conference on Recent Trends in Engineering and Technology (ICRTET-23) held from 8th to 9th December 2023 organized by Hirasugar Institute of Technology, Nidasoshi.

II. Participation In Seminars /Symposia/ Workshops

1. Two days Workshop on Application of Mathematics in Engineering held from 30th To 31st August 2010 at Hirasugar Institute of Technology, Nidasoshi.
2. Three days Faculty Development Program on Issues & Challenges for Foundry Industry in 21st Century held from 17th To 19th March 2011 at Gogte Institute of Technology, Belgaum.
3. Two weeks workshop on Computational Fluid Dynamics held from 2nd To 22nd June 2012 Conducted IIT, Bombay under National Mission on Education through ICT (MHRD, Govt. of India) at Sanjay Ghodawat Group of Institutions, Atigre.
4. One day Seminar on Research Opportunities in Bio fuels held on 19th February 2013 at V.T.U. Belgaum.
5. Two days workshop on Teaching Methodologies in Turbo machines held from 26th & 27th September 2013 at Sambhram Institute of Technology, Bangalore.
6. Two days Symposium on Micro/Nano Scale Heat Transfer held from 26th & 27th December 2013 at PES Institute of Technology, Bangalore.
7. One week ISTE-SRM Short Term Training Programme on Computational Fluid Dynamics held from 9th To 14th June 2014 at Hirasugar Institute of Technology, Nidasoshi.
8. One day Short Term Training Programme on Energy Management held on 29th Sep 2014 at BLDEA Engineering college, Bijapur.
9. One day IUAC sponsored program on Research Facilities held on 18th November 2014 at VTU, Belagavi.
10. One day Programme on Introduction of Choice Based Credit System in Engineering Curriculum held on 31st of May 2015 at VTU, Belagavi.
11. One day Programme on Plagiarism and Process Adopted at VTU in Respect of Plagiarism Check for Ph.D. Thesis held on 28th June 2015 at VTU, Belagavi.
12. Two days Programme on Green Technology and Sustainable Development held from 28th to 30th January 2016 at Sanjeevan Engineering and Technology Institute, Panhala District. Kolhapur.
13. Two days Programme on Advance Engine Management System (Petrol) held from 15th to 16th April 2016 at Hirasugar Institute of Technology, Nidasoshi.
14. One day Programme on Virtual Lab Setup for Refrigeration and Air Conditioning Lab Equipments held on 20th August 2016 at KIT College of Engineering Kolhapur.

15. Five days Programme on Research Methodology held from 9th to 13th January 2017 at AIMT Belagavi.
16. Five days VGST sponsored Faculty Development Programme on Recent Advances in Material-Properties held from 16th to 20th January 2018 at Hirasugar Institute of Technology, Nidasoshi.
17. Two days National Level Faculty Development Programme on E-Resources & ICT in Teaching and Research held from 14th to 15th February 2018 at Maratha Mandal Engineering College, Belagavi.
18. One week Programme on Internet of Things and Its Real Time Applications held from 28th January To 2nd February 2019 Organized by E & C ICT Academy, National Institute of Technology, Warangal at Hirasugar Institute of Technology, Nidasoshi.
19. One week Programme on Composite Materials and Structures held from 15th to 19th June 2019 at Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal-518501 Andhra Pradesh.
20. 1 week Training Programme on Alternate Fuels held from 7th To 11th September 2020 through AICTE Training And Learning (ATAL) Academy organized by Christian College of Engineering & Technology, Bhilai, Chhattisgarh.
21. One day Programme on Basics of Geometric Dimensioning & Tolerancing held on 9th August 2020 at Hirasugar Institute of Technology, Nidasoshi.
22. One day Programme on Exposure of CAD/CAM/CAE for Better Product Design held on 26th June 2020 at Hirasugar Institute of Technology, Nidasoshi.
23. One day Knimbus Online Training on Successful Research Paper: Concepts to Submission held on 11th June 2020 at KLECET Belgavi.
24. One day Programme on Additive Manufacturing For Bioimplant Manufacturing and its Challenges 13th June 2020 at Arasu Engineering College, Kumbakonum, Tamil Nadu.
25. One week Programme on Multi Objective Optimization For Mechanical Engineering Applications held from 8th to 12th June 2020 at QIS College of Engineering Technology, Ongole Andhra Pradesh-523272.
26. One Day Technical Quiz on Operations Research held on 9th June 2020 at V. P. Dr P.G Halakatti College of Engineering and Technology Vijayapur.
27. One Day Training Successful Research Paper: Concepts to Submission on 11th June 2020 at KLECET Belgavi.
28. One Day Quiz on Personality Development on 11th June 2020 at Proudhadivaraya Institute of Technology, Hosapete.
29. One Day Webinar on Additive Manufacturing for Bioimplant Manufacturing and its Challenges on 13th June 2020 at Arasu Engineering College, Kumbakonam.
30. One Week FDP on Composite Materials and Structures from 15th to 19th June 2020 Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal.

31. One Day Technical Quiz on Thermal Engineering on 23rd June 2020 at Smt. Kamala & Sri. Venkappa M Agadi College of Engineering and Technology, Lakshmeshwar.
32. One Day Technical Quiz on Exposure of CAD/CAM/CAE for Better Product Design 26th June 2020 at HIT, Nidasoshi.
33. One Day Technical Quiz on Awareness Programme on COVID-19 on 13th July 2020 at HIT, Nidasoshi.
34. One Day Technical Quiz on Accreditation Process on 20th July 2020 at HIT, Nidasoshi.
35. One Day Technical Quiz on CAD/CAM/CIM on 22nd July 2020 at HIT, Nidasoshi.
36. One Day Technical Quiz on Engineering Thermodynamics on 7th August 2020 at HIT, Nidasoshi.
37. One Day Webinar Basics of Geometric Dimensioning and Tolerancing on 9th August 2020 HIT, Nidasoshi
38. One Week ATAL Academy FDP on Bio Fuel 7th to from 11th September 2020 at Christian College of Engineering & Technology, Bhilai.
39. Three Week software Training on Software in COE in Visualization Engineering from 2nd to 18th August 2021 in Association with ALTEM Technologies Private Limited, Visvesvaraya Technological University, Belagavi.
40. Two week software Training on Onsite Phase-I Training on Software in Visualization Engineering from 20th September To 1st October 2021 in Association with ALTEM Technologies Private Limited, Visvesvaraya Technological University, Belagavi.
41. One Day FDP on Latest Developments in Processing and Manufacturing of Advanced materials 27th November 2021 at AIET, Moodbidri.
42. One Week Training Program on An overview of Teaching Techniques in Innovation & Design Thinking from 27th To 31st December 2021 at VTU Human Resource Centre, Muddenahalli in Association with AICTE Delhi.
43. One Week VGST Sponsored FDP on Software Engineering and Testing Methodologies from 16th To 19th March 2022 at Hirasugar Institute of Technology Nidasoshi.
44. One day Training Programme on National Intellectual Property Awareness Mission on 12th May 2022 organized by Intellectual Property office, India.
45. Three day SSTP on collaborative Hands on “Design and Analysis using MSC Apex Software and Multi body dynamics (Motion Simulation)” in collaboration with ALTEM Technology. Bangalore & VTU, Belagavi at HSIT from 17th to 19th November 2022.
46. One Week National Level Online Faculty Development Programme on “Python Programming and Its Applications” organized by the Department of Electronics & Telecommunication and Biomedical Engineering, BIGCE Solapur from 8th to 12th May-2023.
47. One Day Faculty Development on “Revised NAAC Quality Indicator Framework (QIF) & SSR Preparations” Organized by Hirasugar Institute of Technology, Nidasoshi on 24th November 2023.

48. Three Days National Level Online Faculty Development Program on “Outcome Based Education and NBA Process” Organized by A. G. Patil Institute of Technology, Solapur held from 28th to 30th Dec. 2023.

12. AWARDS, FELLOWSHIPS & OTHER DISTINCTIONS:

- Recognized Research Supervisor of VTU Belagavi
- Doctorial Committee member of Ph.D. candidates for different research centers.

13. ANY OTHER SIGNIFICANT INFORMATION:

1. Project entitled Mixed Mode Solar Cabinet Dryer, which has been awarded as Best Project of the Year under the 43rd Student Project Programme of Karnataka State Council for Science and Technology Indian Institute of Science Campus, Bengaluru.
2. Organized 2nd International Conference on Recent Innovations in Science, Engineering & Technology (ICRISET-2019) held from 18th to 19th July 2019 at Hirasugar Institute of Technology, Nidasoshi, Belagavi in association with Labtech Innovations, Guduvanchery, Chennai, India
3. Worked as a NAAC Criteria Member, the Institution is accredited at “A” Grade by N.A.A.C with effect from 08/02/2019 for a period of 5years.
4. Worked as a NBA Criteria Coordinator, ME Programme accredited by N.B. A. with effect from 01/08/2019 for a period of 3years.
5. Session chair for one of the sessions of the second edition of the two day International Conference on Advanced Research in Mechanical Engineering (2nd ICARME - 21), organized by the Department of Mechanical Engineering, in association with IWS, IIC and IQAC-MVJ College of Engineering, Bangalore, Karnataka, India on 29th and 30th April 2021.
6. Reviewer for International Journal of Ambient Energy, Taylor and Francis Publisher.
7. Reviewer for International Journal of Biofuel, Taylor and Francis Publisher.
8. Reviewer for International Journal of Chemical Engineering, Hindawi Publisher.
9. Reviewer of International Journal of Energy, Elsevier Publication.
10. Reviewer of International Journal of Environmental Science and Pollution Research, Springer Publication.
11. Participated as Member Academic Audit Committee for conducting audit of academic activities of Computer Science & Engineering carried out during the Academic Year 2021-22 on 25-02-2023.
12. Participated as a session chair during the “International Conference on Recent Trends in Engineering and Technology (ICRTET 2023)” held on 8-9 December 2023 organized by Hirasugar Institute of Technology, Nidasoshi.

Sd/-

Dr. M. M. Shivashimpi