



CURRICULUM VITAE

Name:	Shivanagouda.N.Topannavar	
Designation:	Professor & Head and Dean (R&D)	
Department:	Mechanical Engineering	
Specialization & Research Interests:	Thermal Power Engineering & Design and Development of Thermal Energy Conversion Systems	
Email IDs (Official & Personal)	sntopannavar.mech@hsit.ac.in&sntopannavar@gmail.com	
Mobile No.:	9482440235	
Address:	A7, GundeshaApartment Ashok Nagar Nippani-591237	

2. ACADEMIC QUALIFICATION(in reverse Chronological order):

Degree	Year	University/Board
Doctor of Philosophy	2019	Visvesvaraya Technological University, Belagavi
Master of Technology	2006	Visvesvaraya Technological University, Belagavi

Bachelor of Engineering	1998	Karnataka University Dharwad
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3. ANY OTHER QUALIFICATION:

NIL

4. PROFESSIONAL EXPERIENCE:

Organization/Institute/University	Position Held	Duration
Hirasugar Institute of Technology, Nidasoshi	Professor	01-12-2020 to till date
Hirasugar Institute of Technology, Nidasoshi	Associate Professor	29-10-2013 to 30-11-2020
Hirasugar Institute of Technology, Nidasoshi	Assistant Professor	01-10-2011 to 28-10-2013
Hirasugar Institute of Technology, Nidasoshi	Senior Lecture	01-10-2007 to 30-09-2011
Hirasugar Institute of Technology, Nidasoshi	Lecture	27-10-2003 to 30-09-2007
K.L.E's C.B.Kore Polytechnic Chikodi	Lecture	05-09-2000 to 26-10-2003
Carraro India Ltd, Pune	Assistant Design Engineer	21-08-1998 to 02-09-2000

5. ADMINISTRATIVE ASSIGNMENTS:

Position Held	Duration	Nature of Work
Dean (Research & Development)	01-10-2021 to till date	Facilitating and Promoting Research and Development work in line with National Importance.
Head of the Department, Mechanical Engineering Department	01-10-2020 to till date	Coordinating Academics and Research & Development and their related Activities

1 st Year Coordinator	18-07-2019 to 30-09-2020	Coordinating 1 st year Academics and its related Activities
Training & Placement Officer	01-02-2012 to 18-07-2019	Facilitating Trainings and Placements to the students
Center Superintendent for National Testing Agency (NTA) Exams: NEET(UG)-2019 ,NEET(UG)-2020 and NEET(UG)-2021	2019 to till date	Facilitating, Organising and Monitoring NTA Exams
Institute Nodal Officer (INO) for National Scholarship Portal (NSP) and State Scholarship Portal (SSP)	2014 to till date	Helping students to apply Scholarship through NSP & SSP and E-attesting Scholarship documents
MHRD-AISHE Nodal Officer	2011 to till date	Facilitating information for MHRD-AISHE and Coordinating MHRD activities
Research & Development Head (Mechanical Engineering)	2019 to till date	Facilitating and Promoting R&D activities in the department
Examination Coordinator	2017 to till date	Conducting IA Tests and VTU Theory Examinations
Chief Warden	13-07-2004 to 30-07-2007	Monitoring Food, Accommodation and Hospitality in the HSIT Boys Hostels

6. COURSES TAUGHT:

- i) Fluid Mechanics and its Lab,
- ii) Thermodynamics
- iii) Heat Transfer and its Lab
- iv) Energy Engineering

- v) Turbo Machines and its Lab
- vi) Elements of Mechanical Engineering
- vii) Computational Fluid Dynamics
- viii) Innovation & Design Thinking

7. RESEARCH SUPERVISION:

A. Ph.D: Recognised Research Supervisor/Guide from VTU Belagavi on 31st March 2021

i. Awarded :NIL

ii. Submitted :NIL

iii. Ongoing : Awaiting allotment of Research Scholar from VTU, Belagavi

B: M.Tech.

i. Awarded :04

ii. Submitted :01

iii. Ongoing :01

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

i. Awarded :28

ii. Submitted :00

iii. Ongoing :01

8.CONTRIBUTION TO CORPORATE LIFE OF THE INSTITUTE:

- **Training & Placement Officer:**
 - Worked for 6 years to hone employability skills of the students and achieved about 10% improvement in the placements every year.
- **Fund Extraction & Utilization:**
 - Programme Coordinator for Rs. 40 Lakhs research infrastructure fund from KSTePS (Karnataka Science & Technology Promotion Society) earlier VGST (Vision Group on Science & Technology), Govt. of Karnataka, under the scheme K-FIST(L1)-Karnataka Fund for Infrastructure Strengthening in Science & Technology (Level1)
 - Course Coordinator for ISTE, New Delhi sponsored (Rs. 1 Lakh) STTP (Short Term Training Programme) on Computational Fluid Dynamics (CFD)
 - Guide for 4 KSCST sponsored UG students' projects
 - Coordinator to establish TPED-Institute collaborative sponsored (Rs. 6 Lakhs) digital library

- **MHRD-AISHE Institute Nodal Officer:**
 - Working since 2012
 - Facilitated NSP (National Scholarship Portal) to submit online application to various e-scholarships of MHRD, New Delhi
 - Initiated village adaptation for holistic development through staff-student-village interactions
 - Motivated students for SBSI (Swacchh Bharat Summer Internship) participation
- **Exam Coordinator:**
 - Worked as a Institute Centre Superintendent for NEET(UG)-2019, NEET(UG)-2020, NEET(UG)-2021 and NEET(UG)-2022
 - Worked as a Institute Examination Coordinator
 - Voluntarily conducted regional Nurture Merit Test (NMT) of NGO Vidya-Poshak to get admission of poor & merit school students to pre-University courses and Collegiate education
- **NAAC & NBA Criteria Coordinator:**
 - Reviewing & Enriching SSR of NAAC and MECH-SAR of NBA
 - Defining, Evaluating and Documentation of activities and Processes
- **Testing-Consultancy Coordinator:**
 - Revenue generated from equipments through Ph.D research works, M.Tech and BE students projects
- **UG & PG Students Project Guide:**
 - Guided 3 PG and 24 UG students projects successfully
- **EDC Coordinator:**
 - Conducted VTU sponsored Entrepreneurship Awareness Camps
- **Chief Warden for Boys Hostels:**
 - Creating Academic ambience
 - Policies for Healthy Practices
- **E-attestation officer and Nodal Officer:**
 - All National Scholarship Port (NSP) & State Scholarship Portal (SSP)
- **Unnat Bharat Abhiyan (UBA) Coordinator:**
 - Adopting Villages for holistic development and Connecting Institute and Village to standardize village life
- **Social Entrepreneurship, Swachhta- Rural Engement Cell (SES-REC) Coordinator:**
 - Preparing Campus Swachhta Plan and its Implementation

9. MEMBERSHIP OF SOCIETIES/PROFESSIONAL BODIES:

- i) Life Member for ISTE, New Delhi (LMISTE No: LM 62330)
- ii) Life Member for International Association of Engineers (IAENG)

10. PUBLICATIONS:**A. BOOKS/MONOGRAPHS:****1. Authored:**

- i) 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"., Mechanical Engineering for Sustainable Development (State of the Art of the Research) , Apple Academic Press, CRC Press, ISBN hard: 978-1-77188-681-9. Cat#: K345284., ISBN ebook: 978-1-351-17016-1. Cat#: KE5689Taylor & Francis Group, December 2018.

2. Edited:

03

B. PAPERS IN REFEREED/PEER REVIEWED JOURNALS:

- i) Basavaras B. Patil, S.N.Topannavar, K.M.Akkoli, M. M. Shivashimpi, Sunilkumar S. Kattimani., "Experimental Investigation to optimise nozzle geometry and compression ratio along with injection pressure on single cylinder DI diesel engine operated with AOME biodiesel", Elsevier-Energy 254 (May 2022) 124185,ISSN: 0360-5442.
- ii) Sunilkumar S. Kattimani, S.N.Topannavar, M. M. Shivashimpi, B. M. Dodamani., "Optimization of Compression Ratio and Nozzle Geometry on Single Cylinder DI Diesel Engine Fuelled with FOME Biodiesel", Elsevier-Energy 200 (March 2020) 117336,ISSN: 0360-5442.
- iii) K. M. Akkoli, S.N.Topannavar, S. A. Goudadi, M. M. Shivashimpi, 2020. Biomass Characterization and Gasifier Design for Agricultural Residues, Iranian (Iranica) Journal of Energy and Environment 11(3): 198-203.
- iv) Raj.H.Korawar, S.C.Kamate, S.N.Topannavar, B.M.Dodamani., "Performance and Smoke Test on CI Engine Using Cotton Seed Oil as Fuel". Journal of Emerging Technologies and Innovative Research (JETIR), ISSN: 2349-5162, June, 2019
- v) Sunilkumar S. Kattimani, S.N.Topannavar, M. M. Shivashimpi, B. M. Dodamani., "Optimization of Compression Ratio and Nozzle Geometry on Single Cylinder DI Diesel Engine Fuelled with FOME Biodiesel", International Journal of Engineering, Applied and Management Sciences Paradigms (IJEAM), ISSN:2320-6608, 2019
- VI) Ningappa S. Nidasoshi, S.N.Topannavar and SahebgoudaSanganagoudar., "Experimental Study of Performance and Emission Effects by pre-heated Honge oil blended Biodiesel Combustion in IC Engine", Journal of Automotive Engineering and Technology, MANTECH PUBLICATIONS, Vol. 2, Issue 2, 2017.

- vii) S.N.Topannavar and P.B.Gangavati., "An efficient dual fluidized bed biomass gasification system based on fluid particles vorticity", Institute of Integrative Omics and Applied Biotechnology (IIOAB), A Journal of Multidisciplinary Science and Technology. ISSN: 0976-3104.Nov. 2016.
- viii) S.N.Topannavar and Dr.P.B.Gangavati., "Study of temperature profiles by optimized characteristic secondary air injection in the biomass fluidized bed", International Journal of Scientific and Engineering Research. ISSN 2229-5518, Vol. 7, Issue 8. pp 868-873, August 2016.
- ix) Mahantesh M. Shivashimpi, S.A. Alur, S.N.Topannavar, B.M. Dodamani., "Combined effect of combustion chamber shapes and nozzle geometry on the performance and emission characteristics of C.I. engine operated on Pongamia", Energy, 154 (2018) 17-26., Elsevier.
- x) S.N.Topannavar and P.B.Gangavati., "Experimental Study on Effect of Different Characterized Vorticities on Axial Temperature Profiles in Fluidized Bed Gasifier/Combustor", International Journal of Mechanics and Thermodynamics. Volume 2, pp31-42, 2011.

C. PAPERS IN CONFERENCES PROCEEDINGS:

- i) Prof. S.N.Topannavar, Dr.P.B.Gangavati and Prof. K.M.Akkoli. "Experimental study to extract energy by the influence of characterized secondary air injection in the fluidized bed." *International Conference ICRTTEST on the theme "Current Research topics in Power Nuclear and Fuel Energy (PNFE) organized by St.Peters Engineering College, Dullapally, Hyderabad during 25th & 27th October 2016*
- ii) Prof. S.N.Topannavar, Dr.P.B.Gangavati and Prof. K.M.Akkoli. "Experimental study of an effect of compressed secondary air flow characterization on exhaust gas emissions in the biomass fluidized bed." *International Conference ICRTTEST on the theme "Current Research topics in Power Nuclear and Fuel Energy (PNFE) organized by St.Peters Engineering College, Dullapally, Hyderabad during 25th & 27th October 2016*
- iii) Prof. K.M.Akkoli, Dr.P.B.Gangavati and Prof. S.N.Topannavar "Biomass Characterisation and Design of Down Draft Gasifier" *International Conference ICRTTEST on the theme "Current Research topics in Power Nuclear and Fuel Energy (PNFE) organized by St.Peters Engineering College, Dullapally, Hyderabad during 25th & 27th October 2016*
- iv) M.M.Shivasimpi, S.A. Alur and S.N.Topannavar., "Effect of cylindrical chamber shape on the performance and Emission characteristics of C.I. Engine operated on Pongamia", Ignited Minds Professional and Academic Research Consortium (IMPARC), October 2016.
- v) Sunilkumar S. Kattimani, S.N.Topannavar, M. M. Shivashimpi, B. M. Dodamani., Optimization of Compression Ratio and Nozzle Geometry on Single Cylinder DI Diesel Engine published in International Conference on Recent Multidisciplinary Research (ICRMR-2019) 24-25 January 2019

11. Patents/Copyrights/IPR (If Any)

NIL

12. INVITED TALKS:

- i) As an Advisory member for One week online FDP on “Alternative Fuel” during 21st -25th September 2020 organised by Don Bosco Institute of Technology, Begaluru in association with AICTE Teaching and Learning (ATAL)
- ii) As a Resource person in online one week FDP during 10th -15th August 2020 for the topic “Need of Electric and Hybrid Vehicles” and “ Emerging Trends in Electric and Hybrid Vehicles” organized by MotichandLengade Polytechnic, Belagavi

13. RESEARCH PROJECTS (COMPLETED/ONGOING):

- i) Programme Coordinator for Rs. 40 Lakhs research infrastructure fund from KSTePS (Karnataka Science & Technology Promotion Society) earlier VGST (Vision Group on Science & Technology), Govt. of Karnataka, under the scheme K-FIST(L1)-Karnataka Fund for Infrastructure Strengthening in Science & Technology (Level1)

14. PARTICIPATION & PRESENTATIONS IN**SEMINARS/SYMPOSIA/WORKSHOPS/ CONFERENCES:**

- i. Participated in one day online awareness/training programme “National Intellectual Property Awareness Mission” jointly Organized by National IP Awareness Mission (NIPAM), Ministry of Commerce & Industry, GoI and HSIT, Nidasoshi on 12th May 2022
- ii. Participated in four days VGST sponsored FDP on “Software Engineering and Testing Methodologies” Organized by HSIT, Nidasoshi during 16th to 19th March 2022
- iii. Participated in 4 weeks online trainers training programmes on “1. Nation building attitudes and behaviors 2. Future human competencies 3. Skill entrepreneurship 4. Corporate social responsibility” Organized by BOSCH India Pvt. Ltd. Under CSR during 6th DEC 2021 & 11th March 2022.
- iv. Participated in Five days online workshop on “Inculcating Universal Human Values in Technical Education” Organized by AICTE, New-Delhi during 4th to 8th October 2021.
- v. Participated in One day online workshop on “How to conduct Student Induction Programme (SIP)” Organized by AICTE, New-Delhi on 12th September 2021.
- vi. Participated in Two Days International e-Conference on “Atmanirbhar Bharat: Turn Crisis into an Opportunity” Organized by the Department of Management Studies, VTU Belagavi in association with Scientists & Engineering Wing, R.E. & R.F. of Prajapita Brahma Kumaris, Ishwariya Vishwa Vidyalaya, Belagavi on 20 & 21 August 2020.

- vii. Participated in 3-days Unnat Bharat Abhiyana (UBA) e-Workshop on “Water Quantity and Quality Conservation” organized IIT Karagpur during 28th to 30th July 2021.
- viii. Participated in one day Webinar on 17th June 2021, 1st Rural Industrialization Day on "RURAL TECHNOLOGIES FOR ATMA NIRBHAR VILLAGES". Organized by IIT Delhi Alumni Association, Centre for Rural Development & Technology (CRDT), IIT Delhi, &Unnat Bharat Abhiyan
- ix. Participated in one day Webinar on 5th June 2021,on “Catch the Rain-An initiative of Unnat Bharat Abhiyana (UBA) Unnat Bharat Abhiyan and VijnanaBharati are joining hands with the National Water Mission for Catch the Rain initiative, which was launched by ShriNarendraModi, Hon’ble Prime Minister on March 22,2021.In this direction, Unnat Bharat Abhiyan (UBA) and VijnanaBharati (VIBHA) are collaborating with the NWM in support of the campaign and working proactively towards it through their vast network.
- x. Participated inTwo Days International e-Conference on “Atmanirbhar Bharat: Turn Crisis into an Opportunity” Organized by the Department of Management Studies, VTU Belagavi in association with Scientists & Engineering Wing, R.E. & R.F. of Prajapita Brahma Kumaris, IshwariyaVishwaVidyalaya, Belagavi on 20 & 21 August 2020.
- xi. Completed 12 week online Swayam NPTEL-AICTE FDP on “Energy Conservation and Waste Heat Recovery” during July-Oct 2019.
- xii. Participated in One-week CE-QIP Short Term Training Programme (STTP) on “Solar Thermal Technologies for Process Heat and Power, organized by IIT, Bombay during 17th-21st June 2019.]
- xiii. As a Session-Chair at the International Conference on Recent Innovation in Science, Engineering and Technology (ICRISET-18) held during 18-19 MAY 2018 at Hirasugar Institute of Technology, Nidasoshi in association with Lab Tech Innovations, Guduvanchery, Chennai.
- xiv. Participated in AICTE-Clarivate-Analytics’s organized One day workshop on “Aiming for excellence: Pathways to Institutional Advancement through Research” at Oxford Educational Institutions, Bengaluru on 15th March 2018.
- xv. Participated in One week VGST-VTU sponsored Faculty Development programme (FDP) on “ Recent Advances in Materials-Properties” organized by Hirasugar Institute of Technology, Nidasoshi during 16th to 20th January 2018.
- xvi. Participated in 3 Days workshop on “NBA SAR Filling and Preparedness for Assessment” by Engineering Staff College Institute, Hydrabad organized by Hirasugar Institute of Technology, Nidasoshi during 15th to 17th September 2017.
- xvii. Participated in 3 Days ISTE,New Delhi sponsored Faculty Development Programme (FDP) on “Green Technology & Sustainable Development” organized by Sanjeevani Engineering & Technology, Phanala, Maharastra during 28th to 30th January 2016.

- xviii. Participated in One week VGST-VTU sponsored Faculty Development Programme (FDP) on “Advanced material and Nano-Technology for research, Engg. & Health care organizations” organized by SCET Belagavi during 4th to 7th June 2015.
- xix. Participated in One week ISTE sponsored Short Term Training Programme (STTP) on “Computational Fluid Dynamics (CFD)” organized by HIT Nidasoshi during 9th to 14th June 2014.
- xx. Participated in Two days VTU-ISQT sponsored International Conference on “Harnessing Technology Skills for Employability (HTSE-2014)” organized Visvesvaraya Technological University, Belgaum during 21st to 22nd February 2014.
- xxi. Participated in Two days TEQIP sponsored International Symposium on “Micr/Nano Scale Heat Transfer” organized by PES Institute of Technology, Bangalore during 26th to 27th December 2013.
- xxii. Participated in Two weeks MHRD-ISTE New-Delhi sponsored workshop on “Engineering Thermodynamics” organized by IIT Bombay through e-outreach during 11th to 21st December 2012.
- xxiii. Participated in Two weeks MHRD-ISTE New-Delhi sponsored workshop on “Computational Fluid Dynamics” organized by IIT Bombay through e-outreach during 12th to 22nd June 2012.
- xxiv. Participated in Two days VTU, Belgaum sponsored workshop on “Research Methodologies and Report writing” organized by Gogte Institute of Technology, Belgaum during 25th to 26th May 2009.
- xxv. Participated in One week Department of Science & Technology (DST), Govt. of India, New-Delhi sponsored Trainers, Training Programme on “Project Ideation and Implementation” organized by EDC-VTU Belgaum & M.S.Ramaiah Institute of Technology, Bangalore during 23rd to 28th April 2007.
- xxvi. Undergone 3 Months Industrial Training of Karnataka Power Corporation Limited (KPCL) at Raichuru Thermal Power Station (RTPS), Shakti-Nagar during 3rd September 2005 to 3rd November 2005.
- xxvii. Participated in Two weeks AICTE, New-Delhi sponsored Staff Development Programme (SDP) on “Induction Programme for Young Teachers” organized by Basaveshwar Engineering College, Bagalkot during 19th to 31st January 2004.
- xxviii. Participated in Elsevier’s International Conference on Recent Trends in Engineering, Science & Technology (ICRTEST)-2016 on theme Power, Nuclear, Fuel and Energy (PNFE)-2016, organized by Saint Peter’s Engineering College, Dullapally, Hyderabad, Talangana, INDIA during 25th to 27th October 2016.

15. AWARDS, FELLOWSHIPS & OTHER DISTINCTIONS:

- i) VGST Grantee Award received from Bharat Ratna Prof.C.N.R Rao on 16-06-2014 at TATA Auditorium, IISc Bengaluru

16. ANY OTHER SIGNIFICANT INFORMATION:

- i) Established following laboratories to promote Research and Development activities in the Department:
- Alternative Fuel Laboratory
 - Aerodynamic Laboratory
 - Coding and Simulation Laboratory
 - Robotics and Automation Laboratory
 - Project and Assembly Laboratory
- ii) The following policies have been made and implemented in the department to ensure the best academics and career of the students:
- CISC: Cooperative Interactive Study Circles
 - AAM: Alumni as Mentor
 - SST: Special Task Team
 - KYM-PDT: Know Your Mentor through Personality Diagnostic Test for Psychological, Career and Academic Counselling, Mentoring and Grievance Resolving.
- iii) The IIC-Industry Institute Interaction Cell has been strengthened by:
- MoUs with Tech Fortune Bengaluru and Enthalpy Innovation and Research, Sankeshwar.
 - Industry attached laboratories
 - Internships and Visits
- iv) Recognised Doctoral Committee Member for Ph.D Research Scholars
- v) Recognised Reviewer for International Journal of Green Energy: Taylor & Francis and Energy: Elsevier

(Dr.S.N.Topannavar)