

FACULTY PROFILE



1. **Name in full** : Dr. SHIVANAGOUDA N.TOPANNAVAR
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3. **Email ID** : sntopannavar.mech@hsit.ac.in & sntopannavar@gmail.com
4. **Date of Birth** : 10/07/1976
5. **Address for communication** : Mech. Engg. Dept,
Hirasugar Institute of Technology, Nidasoshi
6. **Educational qualifications** :

Sl. No.	Degree	University/Institution	Year	Specialization
1	Ph.D (Thesis submitted)	VTU Belagavi	2019	Fluid Flow and Heat Transfer
2	M.Tech.	VTU Belagavi	2006	Thermal Power Engineering
3	B.E.	KUD Dharwad	1998	Mechanical Engineering

7. **List of all previous employment:**

Sl. No.	Name of the Employer/ Institution	Period		Designation
		From	To	
1	HIT Nidasoshi	29/10/2003	Till Date	Associate Professor
2	K.L.E's C.B.Kore Polytechnic Chikodi	05/09/2000	30/10/2003	Lecturer
3	Carraro India Ltd, Pune	21/08/1998	02/09/2000	Asst. Design Engineer
Total years of Experience				21 years

8. **Subjects of Interest:**

- Outcome Based Education (OBE) & its Assessment
- National Education Policy-2020 (NEP-2020)
- Accreditation and Assessment of Engineering Education (NBA & NAAC)
- Fluid Mechanics and Heat Transfer and their Applications
- Energy Engineering & Conversion Systems
- Thermodynamics and their Applications
- Computational Fluid Dynamics

9. **Publications in National and International Journals & Conferences:**

- Prateek Swamy, S. C. Kamate , **S. N. Topannavar** , "Review of Nozzle Geometry's Impact on the Diesel Engine's Performance, and Emission Characteristics", International Journal of Advanced Technology in Engineering and Science" , ISSN: 2348-7550, Volume. No. 11, Issue No. 12, December 2023.
- K. M. Akkoli1, S. A. Goudadi , **S. N. Topannavar**, "Effect of Cottonseed Oil Methyl Ester on Performance and Smoke of CI Engine" International Conference on "Recent Trends in Engineering and Technology (ICRTET-23)", ISBN:978-93-91535-97-1, Jan. 2024

- Prateek Swamy, S. C. Kamate , **S. N. Topannavar**, "Emissions and Performance Characteristics of Diesel Engines Fueled with Diesel, Biodiesel, and Oxygenated Compound Blends: A Review", International conference AMPT 2023 at NIT Jamshedpur, June 2023
- K. M. Akkoli¹, S. C. Kamate , **S. N. Topannavar** , A. R. Bhavimani , N. R. Banapurmath, IbbamVeza,ManzooreElahi M. Soudagar ,T. M. Yunus Khan, A. S. El-Shafay, M. A. Kalam, M. M. Shivashimpi and Archana M.Gulli, "Influence of Injection Pressure and Aluminium Oxide NanoParticle-Added Fish Oil Methyl Ester on the Performance and Emission of Compression Ignition Engine" *energies-MDPI* (Dec 2022) 15, 9491, ISSN: 1996-1073.
- BasavarasPatil, **S.N.Topannavar**, K.M.Akkoli, M.M.Shivashimpi, SunilkumarS.Kattimani, "Experimental investigation to optimize 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.
- 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.
- 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.
- 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
- Sunilkumar Kattimani, **S. N.Topannavar**,. "Experimental Study on the effect of CR and nozzle geometry on the performance & emission of DI engine fueled with FOME". *Journal of Engineering & Applied Science*, ISSN: 1818-7803
- Sunilkumar Kattimani, **S. N.Topannavar**,. "Experimental investigation of Compression ratio and Fuel injection strategies on Single cylinder DI Diesel Engine operated with FOM Bio diesel". *Jordan Journal of Mechanical and Industrial Engineering*, ISSN: 1995-6665 .
- Ningappa. S Nidasosi, **S. N.Topannavar**, Sahebagoouda Sanganagoudar. Experimental Study of Performance and Emission Effects by Preheated Honge Oil Blended Biodiesel Combustion in IC Engine. *Journal of Automotive Engineering & Technology*. MANTECH Publications. Vol.2, Issue 2. Pp.1-10, Nov.2017
- **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.OCT. 2017, Vol.8. pp. 27-37.
- **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. *Elsevier Energy Procedia*. 2016.
- **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. *Elsevier Energy Procedia*. 2016.
- **Prof.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.
- Prof. K.M.Akkoli, Dr. P.B.Gangavati and **Prof. S.N.Topannavar**. Biomass Characterization and Design of Downdraft Gasifier for Agricultural Residues. *Elsevier Energy Procedia*. 2016.
- **S.N.Topannavar** and P.B.Gangavati. Environmental friendly burning of biomasses by the tangential and radial characterized air injection in the fluidized bed. *International Journal*

of *Green Energy*, Taylor and Francis Publications. Resubmitted in Aug. 2016.
(Communicated)

- Prof. M.M.Shivasimpi, Dr. S.A. Alur and **Prof. S.N.Topannavar**. Effect of cylindrical chamber shape on the performance and Emission characteristics of C.I. Engine operated on Pongemia. *Ignited Minds Professional and Academic Research Consortium (IMPARC)* October 2016.
- **S.N.Topannavar** and P.B.Gangavati. Characterized vorticity effect on smoke emission by pressurized secondary air injection in the Fluidized Bed Combustor. Part-C: *Journal of Mechanical Engineering Science*, Sage Publications. Resubmitted in Oct. 2016. Manuscript ID: JMES-16-1254. **(Communicated)**
- Prof. M.M.Shivasimpi, Dr. S.A. Alur, **Prof. S.N.Topannavar** and Prof.B.M.Dodamani. Combined effect of cylindrical combustion chamber shape and nozzle geometry on the performance and emission characteristics of CI engine operated on Pongemia. 18th ISME International Conference on Enabling Sustainable Development in Mechanical Engineering. October 2016.
- **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, 2011, pp31-42.

10. Conferences:

- Participated as a Convener of International Conference on “Recent Trends in Engineering and Technology (ICRTET-23)” on 8-9 December 2023
- Participated in two days BITES (Board for IT Education Standards) Annual Convection 2022 on “Industry-4.0: Opportunities and Challenges” Organized by Infosys and BITES during 10th-11th February 2023
- Prateek Swamy, S. C. Kamate, S. N. Topannavar, “Emissions and Performance Characteristics of Diesel Engines Fueled with Diesel, Biodiesel, and Oxygenated Compound Blends: A Review”, International conference AMPT 2023 at NIT Jamshedpur, June 2023
- 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
- 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.
- 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. by PES Institute of Technology, Bangalore during 26th to 27th December 2013
- 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.

- Participated in **Two days International Conference** on “Advances in Engineering and technology” organized *Ignited Minds Professional and Academic Research Consortium (IMPARC)* at *Hirasugar Institute of Technology, Nidasoshi.*, during October 2016.

Training Programmes/Workshops/Seminars/STTPs/Symposiums Attended:

S.N.	Topic	Period	Date	Venue
1	BITES (Board for IT Education Standards) Annual Convection 2022 on “Industry-4.0: Opportunities and Challenges” Organized by Infosys and BITES during	3 days	10 th -11 th February 2023	Infosys, Mysore
2	Collaborative placement preparation programme on “Mission to Spread Placement Education”	3 days	26 th -28 th August 2022	Organized by Indian Institute of Placement and Abhudaya, IIT Bombay
3	Collaborative STTP on “Design and Analysis using MSC Apex Software and Multi-body Dynamics (Motion Simulations) ”	One Week	17 th -19 th November 2022	Organized by HSIT and VTU-ALTEM
4	Online awareness/training programme “National Intellectual Property Awareness Mission”	One Day	12 th May 2022	Jointly Organized by National IP Awareness Mission (NIPAM), Ministry of Commerce & Industry, GoI and HSIT, Nidasoshi
5	VGST sponsored FDP on “Software Engineering and Testing Methodologies”	One Week	16 th to 19 th March 2022	Organized by HSIT, Nidasoshi
6	Online trainers training programmes on”1. Nation building attitudes and behaviors 2. Future human competencies 3. Skill entrepreneurship 4. Corporate social responsibility”	4 Weeks	6 th DEC 2021 & 11 th March 2022.	Organized by BOSCH India Pvt. Ltd. Under CSR
7	Online workshop on “Inculcating Universal Human Values in Technical Education”	One Week	4 th to 8 th October 2021.	Organized by AICTE, New-Delhi
8	One day online workshop on “How to conduct Student Induction Programme (SIP)”	One Day	12 th September 2021.	Organized by AICTE, New-Delhi
9	International e-Conference on “Atmanirbhar Bharat: Turn Crisis	Three Days	20 & 21 August 2020.	Organized by the Department of

	into an Opportunity”			Management Studies, VTU Belagavi in association with Scientists & Engineering Wing, R.E. & R.F. of Prajapita Brahma Kumaris, Ishwariya Vishwa Vidyalaya, Belagavi
10	NPTEL-AICTE FDP on “Energy Conservation and Waste Heat Recovery” during	12 week online	July-Oct 2019	Swayam Online
11	CE-QIP Short Term Training Programme (STTP) on “Solar Thermal Technologies for Process Heat and Power	One week	17th-21st June 2019	IIT, Bombay
12	AICTE-Clarivate-Analytics’s Aiming for excellence: Pathways to Institutional Advancement through Research	One day	15 th March 2018	Oxford Educational Institutions, Bengaluru
13	Recent Advances in Materials-Properties	One week	16 th to 20 th January 2018	Hirasugar Institute of Technology, Nidasoshi
14	NBA SAR Filling and Preparedness for Assessment”	Three Days	15 th to 17 th September 2017	Hirasugar Institute of Technology, Nidasoshi
15	“Green Technology & Sustainable Development”	Three Days	28 th to 30 th January 2016	Sanjeevani Engineering & Technology, Phanala, Maharastra
16	“Advanced material and Nano Technology for research, Engg. & Health care organizations”	Four Days	4 th to 7 th June 2015	Shaik College of Engg & Technology, Belagavi
17	“Computational Fluid Dynamics ”	One week	9 th to 14 th June 2014.	HIT Nidasoshi
18	“Harnessing Technology Skills for Employability (HTSE-2014)”	Two days	21 st to 22 nd Feb2014	VTU Belgaum
19	“Engineering Thermodynamics”	Two weeks	11 th to 21 st Dec.2012	IIT Bombay
20	“Computational Fluid Dynamics”	Two weeks	12 th to 22 nd June 2012	IIT Bombay
21	“Research Methodologies and Report writing”	Two Days	25 th to 26 th May 2009	GIT Belgaum
22	“Project Ideation and Implementation”	One Week	23 rd to 28 th April 2007	MSRIT Bangalore
23	Industrial Training	3 Months	3 rd Sept. to 3 rd Nov.2005	RTPS Raichur
24	“Induction Programme for Young Teachers”	Two Weeks	19 th to 31 st Jan.2004	BEC Bagalkot

11. Awards/Achievements:

- Guide for 14 KSCST sponsored UG students' projects
- Principal Investigator for Rs. 40 Lakhs R&D 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)
- Dean (Academics):
 - Presently working as a Dean (Academics) of the institute and brought reforms in the Teaching-Learning-Evaluation processes as per the interest of NEP-2020.
- IQAC Coordinator:
 - Presently working as a IQAC coordinator of the institute and brought qualitative reforms in the Teaching-Learning-Evaluation processes as per the interest of NEP-2020 and actions are in progress to achieve A++ in NAAC Cycle-02 Assessment & Accreditation process.
- *Convener:*
 - International Conference on "Recent Trends in Engineering and Technology (ICRTET-23)"
 - Annual Social Gathering "Shambhrama-23"
- Head of the Department (Mech. Engg.):
 - Presently working as HOD of Mechanical Engineering Department and brought reforms in the academics and evaluation to achieve higher placements, API and SI and in the administration to achieve admission targets.
- *BOSCH-Industry Academia Collaboration Coordinator (IACC):*
 - BOSCH-BRIDGE Skill India certified trainer
 - Established "Skill Development Laboratory" under Corporate Social Responsibility Scheme of BOSCH-Industry-Academia Collaboration.
 - BOSCH recognized trainer on the topics, 1. Nation building attitudes and behaviors 2. Future human competencies 3. Skill entrepreneurship 4. Corporate social responsibility
- As an Advisory member for One week online FDP on "Alternative Fuel" during 21st -25th September 2020 organized by Don Bosco Institute of Technology, Begaluru in association with AICTE Teaching and Learning (ATAL)
- Unnat Bharat Abhiyan Programme Coordinator:
 - Completed village and household surveys in the 5 adopted villages and submitted 8 funding proposals to SEG-IIT Delhi & Bombay for holistic development. One project proposal on "Advanced Community Solar Dryer" has been received a sponsorship of Rs. 01 lakh.
- 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 Motichand Lengade Polytechnic, Belagavi
- Principal Investigator for Rs. 01 Lakh R&D fund from Unnat Bharat Abhiyan for the project entitled "Advanced Community Solar Dryer" during the year 2022
- Member for Board of Examinations (BoE), Visvesvaraya University, Belagavi.
- Worked as a Institute Center Superintendent for NEET(UG)-2019, NEET(UG)-2020, NEET(UG)-2021, NEET(UG)-2022 and NEET(UG)-2023
- Advisory Committee member for one week FDP in association with MHRD-AICTE Training & Learning (ATAL) on "Alternative Fuels" organised by Don Bosco Institute of Technology, Bangalore during 21st -25th Sept. 2020
- Language Translator for AICTE-NPTEL-SWAYAM Courses

- 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.
- As a **Programme-Coordinator** one of my research activity grant proposals accepted by Vision Group on Science & Technology (**VGST**) of Govt. of Karnataka and sanctioned a **grant of Rs. 20**

Lakhs for two years (during 2013-2015) on the topic entitled “Study of performance characteristics of IC engines through Computerized Data acquisition system including exhaust gas analyzer to suggest best alternative fuel.”

- As a **Course-Coordinator** successfully conducted **Rs.1 Lakh** grant **ISTE New-Delhi** sponsored one week Short Term Training Programme (STTP) on the topic “Computational Fluid Dynamics (CFD)” for the engineering faculties and Industry personals during 9th to 14th June 2014.
- Won **Third Prize** in the National Level Technical paper presentation “Tantrik Sourabha-2014” on 7th March 2014, conducted by SJPN Trust’s Polytechnic, Nidasoshi.
- As an assigned work succeeded to increase the Mechanical Engineering Department intake from **90 to 120** by a prepared Detailed Project Report (**DPR**) to **AICTE New Delhi** in the academic year 2010-11.
- As a **Project-Guide** for Engineering graduate students received a grant of **Rs.5500** from Karnataka State Council for Science and Technology (**KSCST**) for the Project proposal entitled “Belt Type Oil Skimmer” during 2010-2011.
- As an assigned work succeeded to establish the **Digital Library** in the Institute by getting grant of **Rs.6 Lakhs** from the Thomson Programme for Education Digitalization (TPED).
- As a **Project-Guide** for Engineering graduate students received a grant of **Rs.2500** from Karnataka State Council for Science and Technology (**KSCST**) for the Project proposal entitled “Heat Transfer Analysis in Fluidized Bed Gasifier” during 2009-2010.
- As a **Project-Guide** for Engineering graduate students received a grant of **Rs.7000** from Karnataka State Council for Science and Technology (**KSCST**) for the Project proposal entitled “Aerodynamic Vertical Composite Wind Mill” during 2014-2015.
- As a **Project-guide** for Engineering graduate students designed and established a “Unsteady Heat Transfer Analysis” experiment equipment in the Heat transfer lab of Department.
- Worked as a **Regional Coordinator** for 3 years (during 2006-2010) successfully conducted Eligibility Tests for 5 Talukas’ poor and merit students to claim Scholarships from NGO “**Vidya-Poshak**”.
- As a **Project-Guide** for engineering graduate students received a grant of **Rs.4500** from Karnataka State Council for Science and Technology (**KSCST**) for the Project proposal entitled “Stair-lift , Battery Powered Mechanical Engg” during 2006-2007.
- Participated as a **Judge** at ABVP sponsored State Level Project Exhibition & Competition for engineering students “Shristhi-2007”, organized by Basaveshwar Engineering College, Bagalkot during 4th to 7th May 2007.

12. **Details of Memberships in societies:**

- Life member of The Indian Society for Technical Education, New-Delhi (LMISTE No: LM 62330)
- International Association of Engineers (IAENG), Hong kong NO: 176747



(Dr.S.N.Topannavar)