

FACULTY PROFILE



1. **Name in full** : SHIVANAGOUDA TOPANNAVAR
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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	2009(R)	Fluidized Bed Gasifier/Combustor
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	Asst. 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				19 years

8. Subjects of Interest:

- Thermodynamics & IC Engines, and related Laboratory experiments.
- Fluid Mechanics & Machinery and related Laboratory experiments.
- Heat and Mass Transfer, etc. and related Laboratory experiments.
- M.Tech subjects: Advanced Fluid Mechanics and Steam & Gas Turbines

9. Publications in National and International Journals & Conferences:

- 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 (**Communicated**).
- 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 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	AICTE-Clarivate-Analytics's Aiming for excellence: Pathways to Institutional Advancement through Research	One day	15 th March 2018	Oxford Educational Institutions, Bengaluru
2	Recent Advances in Materials-Properties	One week	16 th to 20 th January 2018	Hirasugar Institute of Technology, Nidasoshi
3	NBA SAR Filling and Preparedness for Assessment”	Three Days	15 th to 17 th September 2017	Hirasugar Institute of Technology, Nidasoshi
4	“Green Technology & Sustainable Development”	Three Days	28 th to 30 th January 2016	Sanjeevani Engineering & Technology, Phanala, Maharashtra
5	“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
6	“Computational Fluid Dynamics ”	One week	9 th to 14 th June 2014.	HIT Nidasoshi
7	“Harnessing Technology Skills for Employability (HTSE-2014)”	Two days	21 st to 22 nd Feb 2014	VTU Belgaum
8	“Engineering Thermodynamics”	Two weeks	11 th to 21 st Dec.2012	IIT Bombay
9	“Computational Fluid Dynamics”	Two weeks	12 th to 22 nd June 2012	IIT Bombay
10	“Research Methodologies and Report writing”	Two Days	25 th to 26 th May 2009	GIT Belgaum
11	“Project Ideation and Implementation”	One Week	23 rd to 28 th April 2007	MSRIT Bangalore
12	Industrial Training	3 Months	3 rd Sept. to 3 rd Nov.2005	RTPS Raichur
13	“Induction Programme for Young Teachers”	Two Weeks	19 th to 31 st Jan.2004	BEC Bagalkot

11. Awards/Achievements:

- 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 “Shrithi-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