

S J P N Trust's Hirasugar Institute of Technology, Nidasoshi

FACULTY PROFILE

1. **Name in full** : Dr. Basavaraj M Shrigiri
2. **Contact Nos.** : 9741483339
3. **Email ID** : bmsshrigiri.mech@hsit.ac.in
4. **Date of Birth** : 21/07/1975
5. **Address for communication** : Block A, HSIT Staff Quarters, HSIT
Nidasoshi, Tq: Chikkodi, Dist: Belagavi
6. **Educational qualifications:**



| Sl. No. | Degree | University/Institution | Year | Specialization |
|---------|---------|------------------------|------|---------------------------|
| 1 | B.E | Gulbarga University | 1998 | Mechanical Engineering |
| 2 | M.Tech. | VTU | 2003 | Thermal Power Engineering |
| 3 | Ph.D. | JNTU | 2017 | Internal Combustion |

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

| Sl. No. | Name of the Employer/ Institution | Period | | Designation |
|----------------------------------|------------------------------------|------------|------------|-----------------|
| | | From | To | |
| 1 | SKSVAMCET, Lakhmeshwar | 01/06/2017 | 08/11/2017 | Professor |
| 2 | SGBIT, Belagavi | 23/03/2013 | 20/05/2017 | Asst. Professor |
| 4 | SGBIT, Belagavi | 11/11/2011 | 22/03/2013 | Professor |
| 5 | Appa IET Gulbarga | 01/03/2007 | 10/01/2011 | Professor |
| 6 | Appa IET Gulbarga | 01/10/2004 | 01/03/2007 | Asst. Professor |
| 7 | Appa IET Gulbarga | 08/10/2003 | 01/10/2004 | Lecturer |
| 8 | College of Engineering, Ambejogai. | 07/09/1999 | 06/10/2003 | Lecturer |
| Total years of Experience | | | | 19 |

8. **Date of Service in this Institution:** 11/11/2017

9. **Total Experience in years:** 19

10. **Subjects of Interest:** Internal Combustion Engines and Alternative fuels.

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

International Journals

- [1] Basavaraj M Shrigiri, Omprakash D Hebbal, K Hema Chandra Reddy " The effects of thermal barrier coatings on diesel engine combustion, performance and emission" International Journal of Advances on Automotive and Technology, Promech Corp. Press, Istanbul, Turkey Vol. 1, No. 1, pp. 6-12, October, 2016.
- [2] Basavaraj M Shrigiri, Omprakash D Hebbal, K Hema Chandra Reddy "Performance, emission and combustion characteristics of a semi-adiabatic diesel engine using cotton seed and neem kernel oil methyl esters" Alexandria Engineering Journal , Elsevier, (2016) 55, 699-706.
- [3] Basavaraj M Shrigiri, Omprakash D Hebbal, K Hema Chandra Reddy "Performance, Emission and Combustion Characteristics of Neem Kernel Oil and its Biodiesel on a Low Heat Rejection Engine" Thermal Engineering, 79 (2015), 30232-30235.
- [4] ArunSuldal, Basavaraj M Shrigiri "Performance and emission characteristics of diesel engine using

- custard apple seed oil methyl ester and blends” International Research Journal of Engineering and Technology, Vol. 3, Issue 6, June 2016.
- [5] Basavaraj M Shrigiri, Omprakash D Hebbal, K Hema Chandra Reddy “ Experimental Investigation on Low Heat Rejection Engine Fueled with Cotton Seed Oil and its biodiesel” International Journal of Latest Technology in Engineering, Management & Applied Science, Vol II, Issue XII, 2014, pp 58-62.
 - [6] PrashantKalmath, Omprakash D Hebbal, BasavarajShrigiri, Prakash S Patil “Investigation of Performance, Combustion and Emission Characteristics in single cylinder Low Heat Rejection Diesel Engine using diesel and neem kernel biodiesel”, International Journal for Scientific Research and Development, Vol 2, Issue 07, pp 12-18.
 - [7] ChandanInamdar, Ritesh Kemple, Basavaraj M Shrigiri “ Production of Bio- Diesel from non-edible oils- an Overview”, Journal of Mechanical Engineering Research and Technology, Vol.2, No 1(2014), pp 431-436.
 - [8] Basavaraj M Shrigiri, Omprakash D Hebbal, K Hema Chandra Reddy “Biodiesel Applications as fuels for Low Heat Rejection Engine- An Overview”, International Journal of Mechanical Engineering and Research, Volume 2, Number 2 (2012), pp 109-116.
 - [9] NirdoshPatil, Basavaraj M Shrigiri, S B Patil “Synthesis Characterization and antimicrobial activity of Co(II),Ni(II) & Cu(II) complexes with legends derived from pyrazoline derivatives”, Oriental Journal of Chemistry, Vol. 22(2), 431-436, (2006).
 - [10] Shilpa B Shrigiri, V D Mytri, Basavraj M Shrigiri “Application of Nanomaterials in Co-ordination with VLSI Design Process” International Journal of Nanotechnology and Applications ISSN 0973-631X Volume 4, Number 2 (2010), pp. 73-85.

Chapter Published in Books

- [1]. Basavaraj M Shrigiri, Omprakash D Hebbal, K Hema Chandra Reddy, “Investigation on a Low Heat Rejection Engine Using Neem Kernel Oil and Its Methyl Ester as Fuel”, Renewable Energy Systems, Nova Science Publishers, Inc, USA, pp. nos. 181-193 (ISBN: 978-1-53610-423-3).

National Conferences

- [1] Basavaraj M Shrigiri, Omprakash D Hebbal, K Hema Chandra Reddy “ Tobacco seed oil as an alternative fuel for Loe Heat Rejection Engine” National Conference on Recent Advances in Mechanical Engineering and their Impact on Indian Industries,RAMEIII-2012, Department of Mechanical Engineering, PoojyaDoddappaAppa College of Engineering, Gulbarga, 20-22 September,2012.
- [2] Basavaraj M Shrigiri, DrOmprakash D Hebbal “Biodiesel as an alternative fuel for LHR Diesel Engine – An Overview” National Conference On Emerging Technologies in Renewable Energy Engineering (ETREE), Department of Mechanical Engineering Department Guru Nanak Dev Engineering College, BIDAR 585, April 12 – 13, 2012.
- [3] OmprakashHebbal, B M Shrigiri, SharanShegedar “Performance and optimization of Boiler reveals Energy saving opportunities”, 3 National conference on Mechanical Engineering, NATCON ME-2006, Department of Mechanical Engineering SIT, Tumkur,26-27 May,2006.
- [4] OmprakashHebbal, Shilpa B Shrigiri, B M Shrigiri, “Mems and nano technology application”, 3 National conference on Mechanical Engineering, NATCON ME-2006, Department of Mechanical Engineering SIT, Tumkur,26-27 May,2006.
- [5] SharanShegedar, B M Shrigiri, S M Nagure,M B Shetti, Chandrashekhar R Tamburimath“Performance and Optimization of Cooling Tower Reveals Energy Saving Opportunity” Proceedings of the National Conference on Recent Trends in Renewable Energy Technology(NACOOE’05’) 09-10 December 2005, National Engineering College, K R Nagar, Kovilpatti, Tamil Nadu pp 131-138.
- [6] SharanShegedar, Chandrashekhar R Tamburimath, B M Shrigiri, S M Nagure, “Bio-Diesel as Future Industrial Fuels and It,s Impact on Environment” Proceedings of the National Conference on Recent Trends in Renewable Energy Technology(NACOOE’05’) 09-10 December 2005, National Engineering College, K R Nagar, Kovilpatti, Tamil Nadu pp 89-95.

International conferences

- [1] ArunkumarLagashetty, Basavaraj M Shrigiri “Low temperature Synthesis of BaTiO₃ by thermal decomposition of metal oxalate precursors” Proceedings of International Symposium on Advanced Materials and Processing (ISAMP),29-30 Oct 2007, BEC Bagalkot, Karnataka, India.
- [2] ArunkumarLagashetty, BasavarajShrigiri, A Venkataraman “Metal Oxides Dispersed Natural Rubber Nano composite; Structure, Morphology and Thermal Studies. Proceedings ICN-2010 REC Bhalki,Karnataka, India.

12. Training Programming Programmes/Workshops/Seminars/STTPs/Symposiums Attended

| S.N. | Topic | Period | Date | Venue |
|-------------|--------------|---------------|-------------|--------------|
| 1 | | | | |
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13.

14. Awards/Achievements

15. Details of Memberships in societies: MISTE, MIE