### Dr. Kailasnath B. Sutar

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#### **Education**

<u>Ph.D. in Mechanical Engineering</u>: 2010-2015, Indian Institute of Technology Delhi, Department of Mechanical Engineering

Thesis Title: Development of Downdraft Gasifier Cookstoves for Domestic Application

Supervisors: Prof. M. R. Ravi and Prof. Sangeeta Kohli

The objective of this work is to develop a clean burning domestic downdraft gasifier cookstove which will reduce indoor emissions and will be fuel efficient.

**Major Courses Studied:** Convective Heat and Mass Transfer, Experimental Methods in Thermal Engineering, Computational Heat Transfer

#### **Research Components:**

- Design, fabrication and testing of forced draft versions of domestic downdraft gasifiers of 4 kW<sub>th</sub> and 2.5 kW<sub>th</sub> capacities
- Development of a mathematical model of fluid flow and heat transfer for partially aerated producer gas burner
- Fabrication and testing of partially aerated burners of 4 kW<sub>th</sub> and 2.5 kW<sub>th</sub> producer gas power
- Development of experimental facility for laboratory testing of gasifier cookstoves
- Parametric studies of gasifier cookstoves to investigate their thermal and emission performance
- Computational studies of downdraft gasifiers by adapting previously developed one dimensional code of a gasifier
- Development of natural draft versions of downdraft gasifier cookstove
- Characterization of biomass fuels by conducting ligno-cellulosic analysis, proximate,ultimate analysis and Thermo-Gravimetric Analysis (TGA)
- Comparative assessment of three cookstove testing protocols by conducting experimentson commercial forced draft gasifier cookstove

<u>Master of Technology in Thermal & Fluids Engineering</u>: 2006-2008, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad, Maharashtra, Department of Mechanical Engineering with 9.08 CGPA

<u>Bachelor of Mechanical Engineering:</u> 1994-1998, R.I.T. Sakharale, Rajaramnagar, Maharashtra, Department of Mechanical Engineering with **67.34%**.

H.S.C. Science Technical: 1994, L. K. Jr. College, Palus, Sangli, Maharashtra with 82.5%.

S.S.C.: 1992, Borgaon High School, Borgaon, Sangli, Maharashtra with 90%.

## **Teaching & Research Experience**

| S. No. | Name of Institute   | From       | To         | Designation            |
|--------|---|------------|------------|------------------------|
|        | Bharati Vidyapeeth (Deemed to be<br>University) College of<br>Engineering, Pune |            |            | Professor &            |
|        |   | 15/09/2021 | Till Date  | Head of Mechanical     |
|        |   |            |            | Engineering Department |
| 1      |   | 14/01/2016 | 22/11/2021 | Associate Professor &  |
|        |   |            |            | Head of Mechanical     |
|        |   |            |            | Engineering Department |
|        |   | 07/04/2015 | 14/01/2016 | Associate Professor    |
| 2      | Indian Institute of Technology  | 02/01/2010 | 31/12/2014 | Research Scholar       |
|        | Delhi, New Delhi  |            |            |                        |
| 3      | J.S.P.M.'s College of Engineering,  | 01/09/2006 | 29/12/2009 | Senior Lecturer        |
|        | Wagholi, Pune   |            |            | Schol Ecculci          |
| 4      | Government Polytechnic, Pen,  | 19/01/2004 | 01/09/2006 | Lecturer               |
|        | Raigad, Maharashtra   |            |            | Lecturer               |
| 5      | R.I.T. Polytechnic, Rajaramnagar,   | 01/07/1999 | 01/10/2003 | Lecturer               |
|        | Sangli, Maharashtra.  |            |            |                        |

#### **Awards and Achievements**

- Awarded with *Level 5 Certificate in Management & Leadership* by CMI (Chartered Management Institute) UK on 26<sup>th</sup> Nov. 2019.
- Selected for *Technical Leadership Development Programme* under AICTE-UK India Education Research Initiative (UKIERI) in academic year 2018-19.
- o Best Researcher Award of Bharati Vidyapeeth Deemed University, Pune on 26th April, 2017.
- o Academic Excellence Award of Bharati Vidyapeeth University, Pune on 10th May, 2016
- o MHRD Scholarship for Research Scholars: at IIT Delhi from 2<sup>nd</sup> Jan. 2010 to 31<sup>st</sup> Dec. 2014
- o National Merit Scholarship from 1993-1998.
- o Qualified for GATE-2006, 2001, 1999 in Mechanical Engineering

#### **Publications in Refereed Journals**

- <u>Kailasnath B. Sutar</u>, Hitesh Karakoti, Jahan Zeb Khan, Mujahid Momin and Himanshu Rohaj. Laboratory & Field Performance of Two In-House Developed Metal Biomass Cookstoves. *Advanced Engineering Forum* (UGC Approved Free Journal). Accepted for Publication on 31<sup>st</sup> March, 2022.
- Surve M. L., Unde S. S., Dhurpate S. A., <u>Sutar K. B.</u>, Kumbhar D.G. (2021) Computational Studies on Airfoil for Micro-Capacity Horizontal Axis Wind Turbine. *Indian Journal of Science and Technology* 14(29), 2427-2438. DOI: 10.17485/JJST/v14i29.824
- ➤ Rai A., Kumbhar D. G., <u>Sutar K. B.</u> (2021) Computational Investigation on Natural Convection Heat Transfer in Vertical Plate Fin Arrays. *Indian Journal of Science and Technology* 14(24): 2069-2080. DOI: 10.17485/JJST/v14i24.863
- <u>Kailasnath B. Sutar</u>, Munna Kumar, Manish Kumar Patel, Arvind Kumar, Shardul R Mokashi. Experimental investigation on pot design and efficiency of LPG utilization for some domestic cooking processes. *Energy for Sustainable Development*, 56 (2020): 67-72. DOI:10.1016/j.esd.2020.04.006
- <u>Kailasnath B. Sutar</u>, Rohit Singh, Abhiram Karmarka, Ajeet Sharma, Vedant Rathore Experimental Investigation on Thermal Performance of Three Natural Draft Biomass Cookstoves. *Energy Efficiency*, (2018): 1-7. DOI: 10.1007/s12053-018-9705-x

- <u>Kailasnath B. Sutar</u>, Sangeeta Kohli, M. R. Ravi. Design, Development and Testing of Small Downdraft Gasifiers for Domestic Cookstoves. *Energy*, 124 (2017) 447-460. DOI: 10.1016/j.energy.2017.02.076
- ➤ <u>Kailasnath B. Sutar</u>, M. R. Ravi, and Sangeeta Kohli. Design of a partially aerated naturally aspirated burner for producer gas. *Energy*, 116 (2016): 773-785. DOI: 10.1016/j.energy.2016.10.019
- <u>Kailasnath B. Sutar</u>, Sangeeta Kohli, M. R. Ravi, Anjan Ray. Biomass cookstoves: a review of technical aspects. *Renewable and Sustainable Energy Reviews*, 41(2015): 1128–1166. DOI: 10.1016/j.rser.2014.09.003
- ➤ Dhurpate, Priyanka R., <u>Kailasnath B. Sutar</u>, and Sandip A. Kale. Numerical analysis of different airfoils using QBlade software. *Imperial Journal of Interdisciplinary Research*. 2(6): (2016): 1426-30.
- Mokashi, S. and <u>Kailasnath B. Sutar</u>. Survey for Analyzing Domestic LPG Utilization Trends in Households of Pune Region. *Imperial Journal of Interdisciplinary Research*. 2(7): (2016): 1344-46.
- ➤ Kodare R. and <u>Kailasnath B. Sutar</u>. Computational Study on Blade of Micro-capacity Wind Turbine. *International Journal of Scientific & Technology Research*. 8(9): (2019): 2273-77.

## **Publications in Conference Proceedings**

### **International Conferences/Workshops:**

- Amit Shelake, Dnyaneshwar Kumbhar and <u>Kailasnath Sutar</u>. A Comprehensive Review of Methods for Analysis of Solar Still. *International Conference on Innovations in Energy Management and Renewable Resources (IEMRE)* 2022, organized by Institute of Engineering & Management, Kolkata on 25<sup>th</sup> -27<sup>th</sup> February, 2022.
- ➤ <u>Kailasnath B. Sutar</u>, Sangeeta Kohli, M. R. Ravi. Some issues in testing of biomass cookstoves. Proceedings of the 24<sup>th</sup> National and 2<sup>nd</sup> International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC-2017) BITS Pilani, Hyderabad, India. 27<sup>th</sup>-30<sup>th</sup> Dec. 2017.
- ➤ <u>Kailasnath B. Sutar</u>, Sangeeta Kohli, M. R. Ravi. Some issues in testing of biomass cookstoves.
- ➤ 2014 ETHOS Conference, Kirkland, Washington, USA, 24-26<sup>th</sup> Jan. 2014.
- ➤ <u>Kailasnath B. Sutar</u>, Sangeeta Kohli, M. R. Ravi. Development of a laboratory model of a domestic downdraft gasifier cookstove. *IV* <sup>th</sup> *International Conference on Advances in Energy Research*, Indian Institute of Technology Bombay, Mumbai, 10-12<sup>th</sup> Dec. 2013, pp. 611-618.
- ➤ <u>Kailasnath B. Sutar</u>, Sangeeta Kohli, M. R. Ravi. Poster Presentation on: Issues in laboratory testing of biomass cookstoves. *Indo-US Workshop on Biofuel Combustion and Sprays*, Indian Institute of Science Bangalore, 22<sup>nd</sup>-23<sup>rd</sup> June, 2011.

## **National Conferences/Workshops:**

- 1. Adarsh Maddheshiya, Aditya Aggarwal, Aryan Mishra, Anshul Yadav, <u>K. B. Sutar</u>, D.G. Kumbhar Survey for analyzing the use of Biomass cook stove for cooking purpose in rural areas. *9<sup>th</sup> National Conference [Virtual] on Recent Development in Mechanical Engineering (RDME-2021)*. Modern Education Society's College of Engineering, Pune-01 on 18<sup>th</sup> Aug. 2021.
- 2. Hitesh Karakoti, Jahan Zeb Khan, Mujahid Momin, Himanshu Rohaj, <u>Kailasnath B. Sutar</u>. Improvement in Performance of Natural and Forced Draft Metal Biomass Cookstoves. *3<sup>rd</sup> National Conference on Recent Trends in Mechanical Engineering*. Walchand College of Engineering, Sangli, Maharashtra. 21<sup>st</sup> and 22<sup>nd</sup> June, 2018.
- 3. <u>Kailasnath B. Sutar</u>, Ninad Ghormade et al. Development of Two Natural Draft Biomass Cookstoves for Rural Application. *2<sup>nd</sup> National Conference on Recent Trends in Mechanical Engineering*. Walchand College of Engineering, Sangli, Maharashtra. 29<sup>th</sup> and 30<sup>th</sup> June, 2017.

- 4. <u>Kailasnath B. Sutar</u>, Rohit Singh, Abhiram Karmarka, Ajeet Sharma, Vedant Rathore. Experimental Investigation on Thermal Performance of Three Natural Draft Biomass Cookstoves. *Ist National Conference on Recent Trends in Mechanical Engineering*. Walchand College of Engineering, Sangli, Maharashtra. 5<sup>th</sup> and 6<sup>th</sup> July, 2016.
- 5. <u>Kailasnath B. Sutar</u>, Sangeeta Kohli, M. R. Ravi. Poster Presentation on: Development of a domestic downdraft gasifier cookstove. *Research Scholars Day 2014*, Indian Institute of Technology Delhi, 12<sup>th</sup> April 2014.

# **Publication of a Book Chapter:**

Kailasnath B. Sutar "Energy Efficiency and Adoption of Domestic Cookstoves", accepted for publication in a book: *Energy Efficiency*. Publisher: IntechOpen Limited, United Kingdom, Nov. 2021 (Indexed in Web of Science)

# Workshop/ Seminar/Conference Organized

- Online faculty development programme on "*Recent Advances in Mechanical Engineering Design*" from 20<sup>th</sup> July. to 24<sup>th</sup> July, 2021. The FDP was sponsored by AICTE Training And Learning (ATAL) Academy with a grant of Rs. 93,000/-.
- Online faculty development programme on "Research Opportunities in Robotics and Automation" from 24<sup>th</sup> Nov. to 28<sup>th</sup> Nov, 2020. The FDP was sponsored by AICTE Training And Learning (ATAL) Academy with a grant of Rs. 93,000/-.
- Online faculty development programme on "*Research in Energy Technologies*" from 6<sup>th</sup> July to 11<sup>th</sup> July, 2020.
- Online faculty development programme on "*Research Opportunities in AdvanceManufacturing Processes*" from 22<sup>nd</sup> June to 28<sup>th</sup> June, 2020.
- Online faculty development on "Future materials: nano-composites" from 22<sup>nd</sup> June, 2020 to 28<sup>th</sup> June, 2020.
- Oconducted a three days "*Leadership Training Programme*" for faculty members in BV (DU)COEP on 16<sup>th</sup>, 17<sup>th</sup> July, 2019 and 30<sup>th</sup> Aug. 2019.
- o National Level "Paper Presentation Competition" on 26th & 27th March, 2019
- Workshop on 3D Printing & its Applications on 24<sup>th</sup> and 25<sup>th</sup> Jan. 2019
- o Core team member for "NANOCON-018" organised by BVDUCOEP on 25th and 26th Oct. 2018
- o National Seminar on "*Research in Renewable Energy*" from 21<sup>st</sup> to 25<sup>th</sup> Feb. 2017 in the Department of Mechanical Engineering, BVDUCOE, Pune
- Workshop on "Welding and NDT Techniques" from 5<sup>th</sup> to 9<sup>th</sup> Sept. 2016 in the Department of Mechanical and Production Engineering, BVDUCOE, Pune

### Workshop/Seminar/Conference Attended

- ➤ Participated in five days online workshop on "Machine Learning Applications In Mechanical Engineering", from 14<sup>th</sup> Feb. to 18<sup>th</sup> Feb. 2022 organised by Dr. J. J. Magdum College of Engineering, Jaysingpur
- Participated in five days online workshop on "*Entrepreneurship Awareness Programme*" from 14<sup>th</sup> Sept. to 18<sup>th</sup> Sept. 2021 organised by Nagpur Institute of Technology Nagpur.
- Participated in five days online workshop on "Basics of Intellectual Property Rights" from 6th Sept. to

- 11th Sept. 2021 organised by Nagpur Institute of Technology Nagpur.
- Completed a course on "Advanced Computational Fluid Dynamics" from 15<sup>th</sup> May, 2021 to 14<sup>th</sup> Aug. 2021 organised by CFD Flow Engineering
- Online Faculty Development Program on "Renewable Energy Sources: a way ahead" organised by Cummins College of Engineering for Women, Nagpur from 15<sup>th</sup> 21<sup>st</sup> May, 2020.
- Online Faculty Development Program on "Outcome Based Education: a step towards excellence" organised by Government College of Engineering, Karad from 11th -15th May, 2020.
- Seventeen online Sessions on "Innovation, IPR, Entrepreneurship, and Start-ups" organized by Institution's Innovation Council (IIC), MHRD's Innovation Cell, New Delhi from 28<sup>th</sup> April to 22<sup>nd</sup> May, 2020.
- Third workshop on "AICTE-UKIERI Technical Leadership Development" from 11<sup>th</sup> -13<sup>th</sup> June, 2019 at North Ease Hill University, Shillong, Meghalaya
- Second workshop on "AICTE-UKIERI Technical Leadership Development" from 20<sup>th</sup> -23<sup>rd</sup> Feb. 2019 at Acharya Institute of Technology, Bengaluru.
- First workshop on "AICTE-UKIERI Technical Leadership Development" from 13<sup>th</sup> -16<sup>th</sup> Nov. 2018 at AICTE Main Auditorium, New Delhi.
- Advanced Training programme on "Energy Efficiency" organised by CII Pune on 24<sup>th</sup> and 25<sup>th</sup> Jan. 2018.
- Faculty Development Program on "Automation Studio, Pro-simulator (Power Plant Simulator), DelCam (CAD/CAM Simulator), Witness Simulation and CNC Simulator" at Department of Mechanical Engineering, BVDUCOE, Pune in association with IndiaSoft Technologies (P) Ltd.Pune 29<sup>th</sup> June to 3<sup>rd</sup> July, 2016.
- Faculty Development Program on "Industrial Automation". PVG College of Engineering, Pune, 18<sup>th</sup>-19<sup>th</sup> Sept. 2015.
- ➤ Indo-US Workshop on "Biofuel Combustion and Sprays". Indian Institute of ScienceBangalore, 22<sup>nd</sup>-23<sup>rd</sup> June, 2011.
- ▶ British Council/ IIT Delhi "*Intensive English Summer Camp*". Indian Institute of TechnologyDelhi. 12<sup>th</sup> -24<sup>th</sup> July 2010.
- Continuing Education Programme on "*Computational Fluid Dynamics*". Dr. Babasaheb Ambedkar Technological University Lonere, Raigad, 11<sup>th</sup>- 16<sup>th</sup> December, 2006.

# **NPTEL/ SWAYAM Online Courses Completed**

| Sr. No. | Course Title                         | <b>Course Duration</b>             | % Score Secured       |
|---------|--------------------------------------|------------------------------------|-----------------------|
| 01      | Renewable Energy Engineering: Solar, | 8 Weeks AICTE Approved FDP Courses | 80%                   |
| 01      | Wind and Biomass Energy Systems      |                                    | Among top 2% students |
| 02      | Waste to Energy Conversion           | Approved TDF Courses               | 60%                   |

## **Research Activity**

#### **Research Project Completed**

Research grant of Rs. 3.00 lakes has been sanctioned through Institutionally Funded Research Project (IFRP) under TEQIP-II for the research project entitled "Experimental Investigation on Thermal and Emission Performance of Four Biomass Cookstoves"

Start Date: 18.05.2016 & End Date: 17.05.2018 Principle Investigator: Dr. Kailasnath B Sutar

Project Outcomes: 1. Development of Biomass Cookstove Research Laboratory

2. One publication in Springer Journal: <u>Energy Efficiency</u>

#### **Ongoing/Proposed Research Activities**

- > Development of natural draft and forced draft cookstoves for domestic applications
- ➤ Efficient utilization of domestic LPG by improving burner-pot interaction
- ➤ Development of a down-draft gasifier of 15 kW<sub>th</sub> capacity for agricultural application using crop residues
- ➤ Development of micro-capacity wind turbine for domestic application
- ➤ Development of a small biogas plant using kitchen waste

|  | Google Scholar Citations: 182<br>H Index: 06 & I-10 Index: 03   | SCOPUS Citations: 105<br>H Index: 04 | Web of Science citations: 80<br>H Index: 04 |  |  |
|--|---|--------------------------------------|---|--|--|
| Research<br>Metrics                    | Google Scholar Profile Link: <a href="https://scholar.google.com/citations?user=izLaYlwAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=izLaYlwAAAAJ&amp;hl=en</a> Scopus Profile Link: <a href="https://www.scopus.com/authid/detail.uri?authorId=57188740403">https://www.scopus.com/authid/detail.uri?authorId=57188740403</a> Publons/ Web of Science Profile Link: <a href="https://publons.com/researcher/3113024/kailasnath-bhimrao-sutar/">https://publons.com/researcher/3113024/kailasnath-bhimrao-sutar/</a> Web of Science Researcher ID: AAE-9298-2021 Orcid ID: <a href="https://orcid.org/0000-0003-4697-3345">https://orcid.org/0000-0003-4697-3345</a> |                                      |   |  |  |
| Patent Filed/<br>Published/<br>Granted | Title: An Airfoil for a Blade of a Wind Turbine Patent Application No. 201621025413 dated 25.07.2016 Inventors: Dhurpate Priyanka R. & Sutar Kailasnath B. Applicant: Bharati Vidyapeeth Deemed University College of Engineering Pune Status: Published and is now under Examination   |                                      |   |  |  |
| Professional<br>Memberships            | Life Member: ISTE. Membership No. LM27809 dated 15 <sup>th</sup> Oct. 1999  |                                      |   |  |  |

# My Contribution @Bharati Vidyapeeth Deemed Universities' COE since April, 2015

- ➤ HOD Mechanical Engg.: From 14<sup>th</sup> Jan. 2016 till date
- ➤ Institute coordinator for University Theory Examinations (Online) Summer 2020, Winter 2020
- ➤ Institute Coordinator for ARIIA activities: ARIIA 2019, 2020, 2021, 2022
- ➤ Institute coordinator for Skill development activities: Have run courses such as Auto Component Assembly Fitter, Draftsman Mechanical etc. under PMKVY in 2017 and 2018
- ➤ Was part of process of collaborations with Parker Hannifin India Ltd. and Intelletics Innovations Pvt. Ltd. for the new B Tech programme in Robotics & Automation
- ➤ Member of admission committee for: B. Tech. First year, B. Tech. Mechanical Direct Second Year, M. Tech. First Year: June, 2017, 2018, 2019, 2020, 2021
- Member of committee for Change of Branch for B. Tech First Year: June, 2017, 2018, 2019, 2020, 2021
- ➤ Member of Institute Purchase Committee: 2017-2019
- ➤ Member of Internal Inspection team for NBA preparations in December 2018
- ➤ Internal examiner for PhD CET Examination: 2017, 2018

- ➤ Senior Supervisor for University Examinations: Summer/Winter
- ➤ Chairman Vigilance Squad for BVDU Kothrud Campus: Summer 2019, Winter 2018, Winter 2021
- ➤ Member BHARTIYAM organizing team: BHARTIYAM2k17, 18, 19
- Course chairman for B. Tech. & M. Tech. level courses: Fluid Mechanics, Heat Transfer, Power Plant Engineering, Computational Fluid Dynamics, Mechanical Measurement & Metrology
- ➤ Has undertaken research activities in renewable energy, Biomass gasification, Biomass cookstoves and micro-capacity wind turbines
- ➤ Developed a research laboratory: "Biomass Cookstove Testing Lab." in which B. Tech., M. Tech. as well as PhD students perform their project and research activities.
- Research grant of Rs. 3.00 lakes has been sanctioned through Institutionally Funded Research Project (IFRP) under TEQIP-II for the research project entitled "Experimental Investigation on Thermal and Emission Performance of Four Biomass Cookstoves"
- > Guided 06 M Tech students. Presently, 5 PhD students and 3 M Tech students are working
- ➤ Chairman Board of Studies in Mechanical & Production Engineering (2017 to 2021):
  - Framing of syllabus for B. Tech. Sem. VII & VIII (CBCS 2014 Course)
  - Framing of syllabus PhD CET and Pre PhD Course work in Mechanical Engg. (2017).
  - Organised syllabus framing workshops
  - Preparation of proposed course structure for B. Tech. Mech. & Prod. 2020 Course
  - Preparation of proposed course structure for B. Tech. Robotics & Automation 2020 Course
  - Preparation of proposed course structure for B. Tech. Mech. 2021 Course and syllabus for Sem.
     I, II, III, IV
  - Preparation of proposed course structure for B. Tech. Robotics & Automation 2021 Course and syllabus for Sem. I, II, III, IV
- ➤ Member of Board of Studies in Mechanical & Production Engineering
  - Framing of syllabus for B. Tech. Sem. VI & VII (CBCS 2021 Course)
  - Framing of syllabus PhD CET and Pre PhD Course work in Nanotechnology (2022).
  - Organised syllabus framing workshop
- ➤ Core team member for "NANOCON-018" organised by BVDUCOEP on 25<sup>th</sup> and 26<sup>th</sup> Oct. 2018-contribution in preparation of proceedings, association of journals with NANOCON and communication of papers to associated journals
- Organisation of workshops/seminars in department:
  - Online faculty development programme on "Research in Energy Technologies" from 6<sup>th</sup> July to 11<sup>th</sup> July, 2020.
  - Online faculty development programme on "Research Opportunities in Advance Manufacturing Processes" from 22<sup>nd</sup> June to 28<sup>th</sup> June, 2020.
  - Online faculty development on "Future materials: Nano-composites" from 22<sup>nd</sup> June, 2020 to 28<sup>th</sup> June, 2020.
  - Conducted a three days "Leadership Training Programme" for faculty members in BV (DU) COEP on 16<sup>th</sup>, 17<sup>th</sup> July, 2019 and 30<sup>th</sup> Aug. 2019.
  - National Level "Paper Presentation Competition" on 26<sup>th</sup> & 27<sup>th</sup> March, 2019

- Workshop on 3D Printing & its Applications on 24th and 25th Jan. 2019
- National Seminar on "Research in Renewable Energy" from 21<sup>st</sup> to 25<sup>th</sup> Feb. 2017 in the Department of Mechanical Engineering, BVDUCOE, Pune
- Workshop on "Welding and NDT Techniques" from 5<sup>th</sup> to 9<sup>th</sup> Sept. 2016 in the Department of Mechanical and Production Engineering, BVDUCOE, Pune
- ➤ Guardian Faculty Member B. Tech Sem. VII: Term-I 2016-17
- ➤ B. Tech. Project coordinator: Term-I 2016-17
- ➤ Laboratory incharge: Heat transfer Lab. (conducted maintenance of whole laboratory first time since inception, total expenses Rs. 40,000/-)

### **References Contact Information**

Dr. M. R. Ravi

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New Delhi -110016, India. Fax: +91 11 2658 2053 Phone: +91 11 2659 1059

Email: <a href="mailto:ravimr@mech.iitd.ernet.in">ravimr@mech.iitd.ernet.in</a>

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## **Undertaking**

I, the undersigned, Dr. Kailasnath B. Sutar, hereby declare that the information furnished above is true to the best of my knowledge.

**Date:** 18.03.2022

Place: Pune

JEER.

Signature