

Dr Sachin K Kamble

Professor (Ph.D. IIT Bombay,
M.E.Mech.)

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Design Department,
Terna Engineering College,
Plot 12, Sector 22 Opposite to
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Navi Mumbai-400706



Professional Qualification:

- **Ph.D. IIT Bombay, 2016**
Indian Institute of Technology, Bombay, 2016
- **Master of Engineering, 2000**
Govt. College of Engineering, Karad, Shivaji University, Kolhapur
- **Bachelor of Mechanical Engineering, 1997**
- Govt. College of Engineering, Karad, Shivaji University, Kolhapur

Short Bio-data:

I have around 22 years of experience in teaching field; my objective is to impart quality education with emphasis on practical knowledge to the students, which will make their career progressive.

Major Subjects:

Fundamentals of Design
Product Design
Ergonomics
Engineering Drawing
Internal Combustion Engines
Fluid Mechanics
Thermodynamics
Industrial Engineering

Citation Analysis:

<https://scholar.google.com/citations?user=hNwBKSYAAAAJ&hl=en>

List of Publication:

- *International Journals*

- B. L. Tembe, **S. K. Kamble**, “Use of concept maps as an assessment tool in mechanical engineering education”, *Journal of Learning in Higher Education (JLHE)*, spring 2013, ISSN: 1936-346, Vol. 9, Issue 1, pp.129-135.
- **S. K. Kamble**, S. S. Pawar, “Characterization of Hydraulic Fluids and Development of Heat Transfer Correlation in Helical Coil using New Dimensionless Number M ”, *International Journal of Computer Sciences and Engineering*, Volume-5, Issue-3, 2017.
- **S. K. Kamble**, B. L. Tembe, “Teaching of the Second Law of Thermodynamics: Evaluation of learners’ concept maps”, *International Journal of the Computer, the Internet and Management, IJCIM*, Vol.20, No.2, May- August 2012, ISSN 0858-7027, pp. 17-21.
- **S. K. Kamble**, B. L. Tembe, “The effect of use of concept maps on problem solving performance and attitude in mechanical engineering course”, *Procedia – Social Science and Behavior*, July-2013, Vol. 83, pp-748-754.
- **S. K. Kamble**, U. N. Gaitonde and B. L. Tembe, “The impact of concept mapping on achievement and attitude in a thermodynamics course”, *International Journal of Information and Education Technology (IJET)* (ISSN: 2010-3689), July 2016, Vol. 6, No.7.
- **International Conferences (Peer reviewed)**
 - **Sachin Kamble**, Santosh Jagtap, Sadegh Sajedi, Clara Aranda-Jan, Integrated Frugal “Innovations for Resource-limited Societies: Evaluation of a Holistic Design Framework”, *FORE International Conference on Frugal Approach to Innovation*, December 13-14, 2019, New Delhi
 - **S. K. Kamble**, B. L. Tembe, “The effect of concept maps on achievement and attitude in a mechanical engineering course”, *IEEE International Conference on Teaching, Assessment and Learning for Engineering*, (TALE-2012), 20th -23rd August 2012, Hong Kong. <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6337030>
 - **S. K. Kamble**, B. L. Tembe, “The impact of concept mapping on higher cognitive levels in the teaching thermodynamic to mechanical engineering students ”, *Sixth International Conference on Concept Mapping*, (CMC 2014), Vol. 2, pp-461-467, 23rd September-25th September, 2014, Brazil.
 - **S. K. Kamble** and B. L. Tembe, “Implementation of active learning methods in mechanical engineering education to enhance students’ performance”, *40th IEEE Computer Society International Conference on Computers, Software and Applications*, Atlanta, Georgia, Vol. 1, pp-258-263, USA - June 10-14, 2016.
 - **S. K. Kamble**, Amol Jadhav, 2nd International Conference on Changes and Challenges in Commerce, Engineering, Technology and Social Sciences, “An analysis of resistance spot welding on MS And ASS with various parameters” 27th June 2013, Pune.
 - **S. K. Kamble**, Govind Mali, 4th IIRAJ International Conference on recent trends in mechanical engineering, “Design of CNC Printing system for spherical objects”, 8th December 2013, Nagpur.

National conferences (Peer reviewed)

- **S. K. Kamble, B. L. Tembe**, “The use of concept maps in the teaching of the second law of thermodynamics to engineering students”, *1st International Conference and 5th CSI National Conference on Education & Research (confER-2012), (Applications of Foss in Education & Research)*, 12th-13th January, 2012, Lingaya's University, Faridabad, India.
- S.K. Kamble, U. C. Pawar, Keval Patil, “GIS in Municipal Solid Waste Management”, National Conference on Sustainable Manufacturing & Waste Management, [NCSMWM-2019], 16th April 2019, Saraswati College of Engineering, Navi Mumbai
- S. K. Kamble, R. Kekan, P. T. Godbole, “Challenges in Municipal Solid waste management in India”, National Conference on Sustainable Manufacturing & Waste Management, [NCSMWM-2019], 16th April 2019, Saraswati College of Engineering, Navi Mumbai.
- S. K. Kamble, Wind energy & perspectives of development in India- A review, National Conference on Recent Trends in Engineering & Technology – ZENITH 2009 to be held on 30- 31st Oct 2009.
- S. K. Kamble, Into Hydrogen energy future and prospects, National Conference on Recent Trends in Engineering & Technology – ZENITH 2009 to be held on 30- 31st Oct 2009.
- S. K. Kamble, Trends in global production and use of Bio-ethanol fuel, National Conference on Recent Trends in Engineering & Technology – ZENITH 2009 to be held on 30- 31st Oct 2009.
- S. K. Kamble, Prospects and use of Castor oil in India, , National Conference on Recent Trends in Engineering & Technology, Toc H Institute of Science & Technology Ernakulam, Kerala, January 8, 2008. .
- **Books/Chapters**

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- Waste management logistics and technical process and methods- Mahatma Gandhi National Council of Rural Education, Govt. of India, Hyderabad
 - Waste Management as Project Management and GIS- Mahatma Gandhi National Council of Rural Education, Govt. of India, Hyderabad
 - Strategic Planning and Management - Mahatma Gandhi National Council of Rural Education, Govt. of India, Hyderabad
 - Project Management in Rural management, Mahatma Gandhi National Council of Rural Education, Govt. of India, Hyderabad
 - Industrial Hydraulics and pneumatics

Research and Scholarly Contributions:

- Received research grant from Blekinge Institute of Technology, Sweden for project “**Design Practices in metal working firms**” in the year 2020-21.

- Received Minor research grant from University of Mumbai for project “**An Experimental Investigation and CFD analysis of Thermal Performance of Solar Air Heater with ‘Aluminum W’ Wire Mesh**” in the year 2020-21.
- Received research grant from Blekinge Institute of Technology, Sweden for project “**Design Practices in Artificial Intelligence and Machine learning**” in the year 2021-22.

Ph. D. Guide Teacher recognition

- Granted recognition as a teacher to guide students for the **Ph. D. Degree** in the subject of Mechanical engineering of Mumbai University.
- Granted recognition as a teacher to guide students for the **M.E. Degree** in the subject of Mechanical engineering of Mumbai University.
- Guided **3 M.E. Mechanical Students**, University of Mumbai.

Collaboration with Foreign University

- Participating as researcher in a project funded by the Swedish Research Council (project reference number: 2020-03353) and Blekinge Institute of Technology, Sweden. The project is aimed at understanding design practice in metalworking firms.
- Participated as researcher in a project funded by the Swedish Research Council (project reference number: 2020-03353) and Blekinge Institute of Technology, Sweden. The project was aimed at understanding design practice in product design.

Patent Published

- Application No. 202021026844 dated 25/06/2020 titled “Aero drag power generator and cooling system assembly”

Experience: 22 years 3 months

- Head of Dept., Design and Industrial Design dept. Terna Engineering College, Navi Mumbai 01 December 2022 to Present
- Professor in Mechanical Engg Terna Engineering College, Navi Mumbai 01 March 2021 to 30 Nov 2022
- Dean, Industry Institute Interaction Cell, Professor, A C Patil College of Engg., 01/07/2017 to 26/02/2021
- Associate Professor, A C Patil College of Engg., Navi Mumbai 14/10/2016 to 31/06/2017

- Head of Dept, I/C Principal..., 01 Sept. 2015 to 27/09/2016 CSMIT Panvel
- Datta Meghe College of Engineering, Navi Mumbai Assistant Professor Oct. 2002- August 2015
- S. N. D. T. University, Mumbai Sept. 2001-June 2002

Responsibilities Handled:

- Technical committee member- International conference on Educational and Information Technology, (ICEIT 2017), Cambridge, UK
- Technical committee member- International conference on Educational and Information Technology, (ICEIT 2016), Paris, France
- Reviewer, Advances in Science, Technology and Engineering Systems Journals (ASTESJ)
- Faculty for course material preparation at Mahatma Gandhi National Council of Rural Education (MGNCRE), Govt. of India.
- Faculty coordinator in Quad Bike Design competition, Hyderabad
- MOOC's Speaker at National conference of waste management specialist, 22-28th April, 2019, Mahatma Gandhi National Council of Rural Education (MGNCRE), Govt. of India, Hyderabad.
- Faculty for course material preparation at Mahatma Gandhi National Council of Rural Education (MGNCRE), Govt. of India.
- Ph.D. Thesis evaluation panel, Bharati Vidyapeeth., Pune.
- Reviewer, Journal of Engineering Research and Sciences (JENRS)
- Technical committee member- International conference on Educational and Information Technology, (ICEIT 2022), Chengadu, China
- Coordinator- Equinox 2022, International conference in Recent trends in Engineering and Technology and management, Terna Engineering College, Nerul, Navi Mumbai
- Course Coordinator- Foreign Language club (German Language Club) -Terna Engineering College, Nerul, Navi Mumbai
- IQAC Coordinator - Terna Engineering College, Nerul, Navi Mumbai
- Faculty Coordinator – CNC Training center, Terna Engineering College, Nerul, Navi Mumbai
- **Awards, Scholarships**
- National merit scholarship from Government of India in 1991 and 1993
- Worked for NBA and NAAC Accreditation.

Declaration

I hereby declare that the foregoing information are correct and complete to the best of my knowledge.

Dr Sachin K Kamble

Place: Navi Mumbai