

Curriculum Vitae



Name Sameer Khandekar (Dr.-Ing. FNAE, FIE)
Designation Sir M. Visvesvaraya Chair Professor (since May 2017)
Professor (since June 2014) and Ex-Head (Jan 2020- Feb 2023)
Associate Professor: May 2009 – May 2014
Assistant Professor: September 2004 - April 2009
Date of birth November 10, 1971 (Jabalpur MP, India)
Present Address Department of Mechanical Engineering
Indian Institute of Technology Kanpur, Kanpur (UP) - 208 016 INDIA
Tel: +91-512-259-7038, Fax: +91-512-259-7408, E-mail: samkhan@iitk.ac.in
Home Page: <http://home.iitk.ac.in/~samkhan>

Academic qualifications

- Ph. D. - University of Stuttgart, Stuttgart, Germany, 2004.
- M. Tech. (Thermo-fluid Sciences) - Indian Institute of Technology Kanpur, India, 2000.
- B. E. (Mechanical Engineering) - Government Engineering College, Jabalpur (MP), India, 1993.

Fields of interest

- Phase-change heat transfer, Heat Pipes and Thermosyphons, Water Harvesting, Energy systems.

Academic achievements

- Excellence in Teaching Award by IIT Kanpur, 2020.
- Fellow of Indian National Academy of Engineering (INAE) since November 2019.
- Sir M. Visvesvaraya Chair Professorship (since May 2017)
- Fellow of Institution of Engineers (India), 2016.
- P. K. Kelkar Research Fellowship from IIT Kanpur (October 2009 - September 2012).
- DAAD Research Fellow, Technical University of Darmstadt, May-July 2011.
- K. N. Seetharamu Young Researcher Medal, Indian Society for Heat & Mass Transfer, 2010.
- Nominated member of the academic senate of IIT Kanpur, December 2006 - November 2007.
- Nominated member of the academic senate of Indian Institute of Information Technology Design and Manufacturing Jabalpur (MP) during June 2006 – May 2012.
- Invited Professor at Center for Thermal Sciences (CETHIL) at INSA-Lyon, France, May-July 2008 (10 weeks) and May-July 2012 (08 weeks); Heat Pipe Laboratory, University of Chiang Mai, Thailand, September 2006 (2 weeks); University Santa Catarina, Florianópolis, Brazil, May-July 2005 (10 weeks).
- George Grover Young Scientist Medal from International Heat Pipe Committee, 2007.
- Member of the International Heat Pipe Committee since April 2007.
- Young Scientist Award by the Department of Atomic Energy, Government of India, 2005.
- Over 15 keynote lectures/ invited lectures in national and international conferences.
- Doctoral dissertation grade 1 on a scale of 4 (Highest possible grade; “Summa Cum Laude”).
- First position in the M. Tech. Program (batch of Thermo-fluid Sciences) with CPI = 9.7/10.
- Five university gold medals for various achievements including 1st position in the under-graduate B.E. program of Government Engineering College, Rani Durgavati Vishvavidyalaya, Jabalpur (MP) India.
- National merit scholarship for the entire undergraduate education in India.

Courses taught: Undergraduate: 08 (02 Core; 02 Compulsory; 04 electives);
Graduate 04 (01 developed; 01 compulsory and 03 electives)

Associate Editor

- *International Journal of Thermal Sciences (IJTS)*
- *Interfacial Phenomena and Heat Transfer (IPHT)*

Publications: Books (05), International Journals (90); Refereed Conferences (115); Book Chapters (06)

h-index: 44 (Google Scholar); 32 (Scopus)

Patents: 09 filed, granted 05 (Indian)

Curriculum Vitae

Industry experience: 04 years (as a Marine Power Plant Engineer onboard merchant vessels)

Teaching experience: 19 years at IIT Kanpur (Lectures/Tutorials/ Laboratories)

- M. Tech. theses advising: Completed – 58 (06 as co- advisor); Ongoing - 04
- Ph.D. theses advising: Completed - 13 (03 as co-advisor); Ongoing - 03
- Short Term Courses/ Workshops: 08 (in-campus); 05 (in-house training for industry)

Sponsored research experience

Completed - 20 (IITK/BRNS/BARC/CEFIPRA/ISRO/DST/DRDO/MHRD/Air-Force/Private Industry); Consultancy Projects: 06 (01 ongoing)

Sponsored Projects Ongoing - 03 (DST-SERB/MoT)

Administrative experience

INTERNATIONAL LEVEL: Executive member (since 2007) and Chairperson, International Heat Pipe Committee (September 2022-ongoing).

NATIONAL LEVEL: Visitor's Nominee of IIT Dharwad (2023-ongoing); Visitor's nominee to all NITs (2017-ongoing), Executive member and Vision 2047 drafting committee, National Science Center, New Delhi; Invited member of the Board of Studies (ME), LNMIIT Jaipur and KIIT, Bhubaneswar; Invited member of Academic Board of Uttar Pradesh Technical Institute, Kanpur; Member, Kargil Engineering College Committee, 2022; Member ME Department Review Committee (IIT Palakkad - 2021); Member of AICTE UG Core Curriculum Development Committee (2020); Selection committee member of faculty and staff appointments at several national institutes; Member of DST-SERB PAC (Mechanical, Aerospace, Material Science and Civil Engineering – 2015 onwards) and Early Career Award Committee; Member AICTE Industry-Academia Program; Executive Member – Indian Heat and Mass Transfer Society; Reviewer: DRDO projects at CHES/LASTECH, President/Treasurer of Shiksha-Sopan, a voluntary organization run by IITK community working for socially/ economically backward society.

IITK INSTITUTE LEVEL: Dean of Students Affairs, Chairman, Exit Degree Option Committee, Member, Opportunity School Management Committee, Coordinator *Approach-Cell* (2023-ongoing); Organizing team member - National Conclave on Role of Science during India's Independence Movement 2022; Chairman – Student Entrepreneurship Policy Formulation Committee; Chairman – Diamond Jubilee Celebration Committee; Member – Staff Promotion Policy Review; Member – Post-Graduate Academic Review Committee; Member – Ranking Committee; Convener – In-campus Transport System Review Committee; Academic Senate Parliamentarian; Associate Dean (Innovation and Incubation); In-charge, Air-conditioning works; Head, Central Workshop; Coordinator-Tinkering Laboratory, Convocation committee(s); Member - Green Cell; Invited Member – Building Works Committee; Treasurer and Board Member-Alumni Association IITK; Warden-in-charge (Hall 7); Chairman-Transport User's Committee; Member-IITK Golden Jubilee Committee; Coordinator: IIT Open House event, Member-Counseling Service; Member-DRPG Advisory Committee; Editorial member: IITK Hindi Magazine; Member-Space Allocation Committee; Member-Industrial Collaboration Advisory Group; Selection committee member of several Group A/B/C appointments.

ME DEPARTMENT LEVEL: Head of the Department (ME and NET – February 01, 2020 - 2023); Member DFAC (including Department of Sustainable Energy Engineering and Department of Design); Convener - Departmental Post-Graduate Committee; Coordinator-RAC/HT Laboratory; Coordinator-NPTEL Course Development; Coordinator-Website; Member-FIST committee, Member-DPGC/DUGC (including Nuclear Engineering Program), Convener/Member-B.Tech. Project Evaluation Committee, Coordinator-Seminar.

Brief bio-sketch in paragraph format

Prof. Sameer Khandekar is affiliated to the Department of Mechanical Engineering, Indian Institute of Technology Kanpur, India, since September 2004. He completed M. Tech. program from IIT Kanpur, India (1998-2000) with specialization in Fluid-Thermal Engineering, and subsequently earned the doctoral degree from University of Stuttgart, Germany (2000-2004). Earlier, after his undergraduate studies in Mechanical Engineering from Government Engineering College, Jabalpur (MP), he worked as a marine power plant engineer on board sea-going merchant ships for four years (1994-1998).

At present, Prof. Khandekar is an occupant of *Sir M. Visvesvaraya Chair* at IIT Kanpur (2017-ongoing). He is also a Fellow of the Indian National Academy of Engineering and Institution of Engineers (India). He is a recipient of P. K. Kelkar Research Fellowship from IIT Kanpur in 2008, DAAD Fellowship in 2011, Prof. K. N. Seetharamu Award from the Indian Society of Heat and Mass Transfer in 2010, George Grover Medal from the International Heat Pipe Committee in 2007, and Young Scientist Award from the Department of Atomic Energy, India, in 2005.

Prof. Khandekar is Associate Editor of International Journal of Thermal Sciences and Interfacial Phenomena and Heat Transfer. He is the Chairperson of the International Heat Pipe Committee, and was an executive member of the Indian Heat and Mass Transfer Society. He has served as an invited faculty member at five international universities in Germany, France, Brazil, Russia, and Thailand. He has also served as Visitors nominee of OOT Dharwad and all NITs, and academic senate member of one central, one state funded, and two private engineering institutes.

He has over 130 research publications in international journals, over one hundred publications/presentations in international conferences, including 30 Keynote lectures/Invited Talks, eight patents, and five books to his credit. His current research interests are in experimental phase-change thermo-fluidic systems, evaporation, boiling, condensation, heat pipes and energy systems.

Prof. Khandekar is presently the Dean of Students Affairs at IIT Kanpur (from October 01, 2023 onward). He has served as the Head of the Department, Department of Mechanical Engineering, IIT Kanpur (February 2020 – January 2023). He is serving as member of Project Advisory Committee of SERB (Mechanical and Aerospace Engineering, Materials Science and Engineering, Vaibhav Scheme), Earlier, he was the Associate Dean (Innovation and Incubation) and Coordinator of the SIDBI Innovational and Incubation Center, IIT Kanpur during 2015 - 2017. He has also served on several key administrative positions, including Chairperson, Institute Air Conditioning System, Treasurer and Board Member, IITK Alumni Association, Head of IITK Central Workshop, Member of Post-Graduate Academic Review Committee (2020), to name a few. Recently, he also chaired the committee on drafting the IIT Kanpur Students' Entrepreneurship Policy, which has been implemented at IIT Kanpur (2022).

He is also the President of Shiksha Sopan Trust, a voluntary organization, serving the underprivileged sections of the society in and around IIT Kanpur. He writes Hindi poems and is interested in theater.
