

Curriculum Vitae



Name Sameer Khandekar (Dr.-Ing. FNAE, FIE)
Designation Sir M. Visvesvaraya Chair Professor (since May 2017)
Professor (since June 2014) and Head (since February 2020)
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
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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

- Two-phase heat transfer, Heat Pipes and Thermosyphons, Energy systems.

Academic achievements

- 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 (85); Refereed Conferences (105); Book Chapters (06)

Patents: 08 filed, granted 02 (Indian)

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

Teaching experience: 16 years at IIT Kanpur (Lectures/Tutorials/ Laboratories)

- M. Tech. theses advising: Completed - 50 (06 as co- advisor); Ongoing - 02
 - Ph.D. theses advising: Completed - 07 (02 as co-advisor); Ongoing - 05 (01 as co-advisor)
 - Short Term Courses/ Workshops: 08 (in-campus); 04 (in-house training for industry)
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Curriculum Vitae

Sponsored research experience

Completed - 18 (IITK/BRNS/BARC/CEFIPRA/ISRO/DST/DRDO/MHRD/Private Industry);
Ongoing - 02 (DST-BRICS/DST)

Administrative experience

IITK INSTITUTE LEVEL: 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; Senate Parliamentarian; Associate Dean (Innovation and Incubation); In-charge, Air-conditioning works; Head, Central Workshop; Coordinator-Tinkering Laboratory, 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); Convener -Departmental Post-Graduate Committee; Coordinator-RAC/HT Laboratory; Coordinator-NPTEL; Coordinator-Website; Member-FIST committee, Member-DPGC/DUGC, Convener/Member-B.Tech. Project Evaluation Committee, Coordinator-Seminar

Other experience

Member of AICTE UG Core Curriculum Development committee (2020); Visitor's nominee to all NITs, Selection committee member of faculty and staff appointments at several national institutes; Member of DST PAC (Mechanical 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 CHESS/LASTECH, President/Treasurer of Shiksha-Sopan, a voluntary organization run by IITK community working for socially/ economically backward society living in villages around IIT Kanpur.

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) in Fluid-Thermal Engineering and subsequently earned 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. He is also a Fellow of the Indian National Academy of Engineering (elected in 2019) and Fellow of Institution of Engineers (India) since 2016. He is a recipient of P. K. Kelkar Research Fellowship from IIT Kanpur in 2008, DAAD Fellowship (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 (Department of Atomic Energy, India, 2005).

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

He has over eighty-five research publications in international journals, over one hundred publications/ presentations in international conferences, including 16 Keynote lectures/Invited Talks, eight patents, and four books to his credit. His current research interests are in experimental microscale phase-change thermo-fluidic systems, evaporation, boiling, condensation, heat pipes and energy systems.

He has served as the Associate Dean (Innovation and Incubation) and coordinator of the SIDBI Innovational and Incubation Center, IIT Kanpur during 2015 - 2017. He is also the President of Shiksha Sopan, a voluntary organization (registered NGO), serving the underprivileged sections of the society in and around IIT Kanpur.
