

1. **Name:** Dr. U. S. Wankhede

2. **Qualifications:**

- **Ph.D.** in Faculty of Engineering and Technology and discipline of Mechanical Engineering from Rashtrasant Tukdoji Maharaj Nagpur University in 2011.
- **M.Tech. (Heat Power Engineering)** from Rashtrasant Tukdoji Maharaj Nagpur University in 1999
- **B.E. (Mechanical)** from Rashtrasant Tukdoji Maharaj Nagpur University in 1995

3. **PROFESSIONAL EXPERIENCE:**

- **Working as Associate Professor in Mechanical Engg. Deptt.** in Government College of Engineering, Nagpur from 25/08/2021- (on deputation to Government College of Engineering, Ratnagiri )
- **Worked as Associate Professor in Mechanical Engg. Deptt.** in Government College of Engineering, Chandrapur from 01/09/2017 to 24/08/2021
- **Worked as Professor in Mechanical Engg. Deptt.** in G.H. Rasoni College of Engineering, Nagpur from 17/03/2011 to 30/08/2017
- **Worked as Assistant Professor in Mechanical Engg. Deptt.** in G.H. Rasoni College of Engineering, Nagpur from 01/09/2006 to 16/03/2011.
- **Worked as Senior Lecturer in Mechanical Engg. Deptt.** in G.H. Rasoni College of Engineering, Nagpur from 01/08/2005 to 31/08/2006
- **Worked as Lecturer in Mechanical Engg. Deptt.** in G.H. Rasoni College of Engineering, Nagpur from 01/08/2000 to 31/07/2005

4. **International Journal Publications in 2022-23 and 2023-24**

1. Review on nanoporous inorganic desiccant materials in the context of application in rotary dehumidifiers, Materials Today: Proceedings, Volume 57, Part 5, 2022, Pages 2174-2179, ISSN 2214-7853
2. An Ecofriendly Thermo Acoustic Refrigeration System –A Review, International Journal of Research and analytical review (IJRAR), July 2022, Volume 9, Issue 3, pp 605-611, E ISSN: 2348-1269, P ISSN 2349-5138
3. Review of Composite desiccants and their properties for rotary dehumidifiers, European Chemical Bulletin, Vol. 12, Issue 2, Page 240- 252, 2023, ISSN: 2063- 5346
4. Heat transfer analysis in sound enhanced fluidized beds containing geldart B-C binary mixtures, International Journal of Membrane Science and Technology, 2023, Vol 10, No. 5, pp 544-557

## **International Conferences in 2022-23 and 2023-24**

1. Conversion of acoustic energy into refrigerating effect-Thermo acoustic refrigeration system, International conference on Disruptive Technology for Achieving Sustainable Development Goals (IC-DTSDG-22), TGPCE, Nagpur, from 22-23 July 2022
2. Experimental investigation of polyamide nylon 6 stacks material in thermos acoustic refrigeration system, International Conference on Recent Developments in Mechanical Engineering (ICRDME-22), RCOEM, Nagpur, from 23-24 Sep 2022

## **Short Term Training Programmes attended (STTP) in 2022-23 and 2023-24**

1. 'Recent trends and tools for data analytics(RTTDA)' by G.H.Raisoni College of Engineering, Nagpur during 09/01/2023 to 13/01/2023(1 week-Organized by Centre of Excellence in Data Science and department of Computer Science and Engineering)
2. 'Green energy technology and waste management' by Jhulelal Institute of Technology, Nagpur during 16/01/2023 to 21/01/2023(1 week-In association with ISHRAE)
3. 'Generative Artificial Intelligence(AI) by Sipna College of Engineering and Technology, Amravati (30/10/2023 to 03/11/2023 (1 week-In association with ISTE) Book/Book Chapter-6 No.

## **Patent applications granted:**

### **Patent granted (International):**

Patent Number: 2021107426 (Australian Government)-Granted on 08/12/2021  
A novel acoustic fluidized bed device for heat transfer application

### **Patent granted (National):**

Patent Number: 393762 (Indian Patent)-Granted on 31/03/2022  
Selection of capillary tubes in refrigeration appliances, Application No. 2668/MUM/2013, Filing date 14/08/2013.

## **Research and development:**

- a) Number of Projects guided : B.E.-30  
M.Tech./M.E.- 26  
Ph.D.- Awarded 2  
Persuing-As Supervisor -1  
Persuing-As Co-Supervisor-2

## **Life Membership of professional bodies:**

1. Life member of ISTE (LM32375) in 2001.
2. Life member of Combustion Institute of India (LMC 879) on 22/08/2003.
3. Life member of SESI (LM/1993/2013) on 07/03/2013.
4. Member Indian Society for Heating, Refrigerating and Air Conditioning Engineers(34643) on September 2017.