

CURRICULUM VITAE



1. PERSONAL DETAILS

1. **Full name** : Bhushan Chandrakant Behede
2. **Date of Birth** : 20/05/1992
3. **Permanent Address** : 2, Near DDSP College, Erandol, Dist. – Jalgaon, Maharashtra. 425109
4. **Domicile** : Maharashtra
5. **Nationality** : Indian
6. **Contact No.** : +91 8237235899, +91 7972926224
7. **Email ID** : bhushanbehede@gmail.com
8. **LinkedIn Profile** : <https://www.linkedin.com/in/bhushanbehede1992/>
9. **Website** : <https://bhushanbehede.wordpress.com>
10. **Marital Status** : Un-married
11. **Researchgate Profile** : https://www.researchgate.net/profile/Bhushan_Behede
12. **Language Skills** : English, Hindi, Marathi, Marwari
13. **Strength** : Passionate, Confident, Efficient time management, Good

2. CAREER OBJECTIVES

Aspiring to be a part of an organization that provides an opportunity to pursue a career in the technical domain and enables me to utilize and enrich my skills and knowledge in order to grow as an individual and contributes to the growth of the organization as a whole

3. TEACHING EXPERIENCE

1. **Currently Working: Assistant professor in the Dept. of Mechanical Engineering**, Shri Vile Parle Kelavani Mandal's (SVKM's) Institute of Technology, Dhule (Maharashtra), India. 424 001. Affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, Dist. Raigad, Maharashtra, India. **Duration:** 3 Jan. 2019 – Present.
2. **Past Working Experience:**
 - a. **Assistant professor in the Dept. of Mechanical Engineering**, G. H. Rasoni Institute of Engineering and Management (GHRIEM), Jalgaon (Maharashtra), India. 425 002. Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University (KBCNMU), Jalgaon. **Duration:** 23 Jan. 2017 – 25 May 2019.
 - b. **Assistant professor in the Dept. of Mechanical Engineering**, Guru Nanak Institute of Technology (GNIT), Nagpur (Maharashtra), India. Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (Maharashtra), India. 440 016. **Duration:** 8 Aug. 2016 – 20 Jan. 2017
 - c. **Assistant Teacher in the Dept. of Mechanical Engineering**, G. H. Rasoni College of Engineering (GHRCE), Nagpur (Maharashtra), India, 440016. An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. **Duration:** 13 August 2014 to 21 May 2016.

4. SUBJECTS TAUGHT

a. UG Level:

1. Refrigeration and Air Conditioning (RAC)
2. Heat Transfer (HT)
3. Applied Thermodynamics
4. Energy Conversion III (EC III)
5. Power Plant Engineering (PPE)

6. Automobile Engineering (AE)

b. PG Level:

1. Convective Heat Transfer
2. Applied Thermodynamics

5. INSTITUTION AND DEPARTMENTAL PORTFOLIOS

a. Institution portfolios:

1. **Techkrunch 2k18-19:** A national Level technical Event Coordinator.
2. **NAAC:** Active Member of NACC committee **Criteria 5 – Student Support and Progression**

b. Departmental Portfolios:

1. **Spoken Tutorial Workshop:** Coordinator for FOSS workshops.
2. **Slow and Fast Learners:** Coordinator for carrying out activities for all such students.
3. **M. E. Thermal:** Coordinator to look over all M. E. activities in the department.
4. **Project Evaluation Committee:** Active member of project evaluation team.

6. EDUCATIONAL DETAILS

Qualification	Institute	University	Year of Passing	Percentage
Ph.D. (Mechanical)	School of Engineering, OPJU, Raigarh, Chhattisgarh, India.	O. P. Jindal University (OPJU), Raigarh, Chhattisgarh, India.	Perusing (2017 Onwards)	82.63 % (Coursework Exam)
M. Tech (Heat Power Engineering)	G. H. Rasoni College of Engineering (Autonomous), Nagpur (MS), 440016.	Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur, Maharashtra, India.	2016	(CGPA – 9.65) Silver Medalist
B.E. (Mechanical Engineering)	Pravara Rural Engineering College, Pravaranagar (MS), 413736.	University of Pune (Now-Savitribai Phule Pune University), Pune, Maharashtra, India.	2013	60.03 % (aggregate of 8 semesters)
HSC (Science)	Padmashri Vikhe Patil College of Arts, Science and Commerce, Loni (MS), 413736	Maharashtra State Board of Secondary & Higher Secondary Education, Pune (Pune Divisional Board), Maharashtra, India.	2009	81.33 %
SSC	R.T. Kabre Vidyalaya, Erandol (MS), 425109.	Maharashtra State Board of Secondary & Higher Secondary Education, Pune (Nasik Divisional Board) Maharashtra, India.	2007	80.3 %

7. CO-CURRICULAR EXAM DETAILS

1. **MHT-CET:** PCM+PCB, PCM: 112/200, PCB: 120/200.
2. **GATE 2014:** Appeared in Mechanical Engineering (ME) paper set by IIT Kharagpur. Qualifying marks were 28.86 and I have scored 32.00 marks with AIR 21286. **Registration Number:** ME204706125.
3. **Refrigeration and Air Conditioning:** NPTEL Online Certification Course Organized by **IIT Roorkee** and funded by the Ministry of HRD, Govt. of India. **Registration No.:** NPTEL17MM14S1570156. **Obtained Marks:** 72% 'ELITE' Tag (Qualifying Percentage: 40%).

4. **Convective Heat Transfer:** NPTEL Online Certification Course Organized by **IISC Bangalore** and funded by the Ministry of HRD, Govt. of India. **Registration No.:** NPTEL18ME25S46700211810093662. **Obtained Marks:** 54% (Qualifying Percentage: 40%).
5. **Heat Exchangers: Fundamentals and Design Analysis.** NPTEL Online Certification Course Organized by **IIT Kharagpur** and funded by the Ministry of HRD, Govt. of India. **Registration No.:** NPTEL18ME43S217501401810159376. **Obtained Marks:** 75% 'ELITE' Tag (Qualifying Percentage: 40%). This course is also to be considered as UGC Approved **One and Half Week Faculty Development Program** under SWAYAM Initiative.

8. MEMBERSHIP IN PROFESSIONAL SOCIETIES

1. **International Association of Engineers (IAENG)** – Membership number: 204831.
2. **The American Society of Mechanical Engineers (ASME)** - ASME Member ID: #000100763122
3. **Solar Energy Society of India (SESI)** – Membership number: SM/3632/2014

9. ACADEMIC PROJECTS

1. **Experimental investigations of an adsorption refrigeration system for vehicle air conditioning (PG).**
Guide and Mentor: Dr. Uday S. Wankhede, Associate Professor, Dept. of Mechanical Engineering, Govt. College of Engineering, Chandrapur (Maharashtra), India
 Design, Development, and Analysis of a global and dynamic model of an Adsorber bed heat exchanger used as a '**Thermal Compressor**' in the Adsorption Refrigeration System to produce chilled water at the output with a focus to replace the conventional cooling system running by Vapor Compression Refrigeration System (VCRS). Calculation of system performance parameters such as SCP (W/kg of refrigerant) and COP with experimentation in order to complete the objectives of the project was done. Efforts were taken to boost the heat and mass transfer rate as maximum as possible.
2. **Modified Coconut Tree Climber (UG).**
Guide and Mentor: Dr. Milind D. Mhaske, Professor, Dept. of Mechanical Engineering, Pravara Rural Engineering College (PREC), Pravaranagar (Maharashtra), India.
 With the objective to increase the productivity of agricultural products and to make the agriculture sector globalized one, I have contributed my knowledge to the team of four members. The project got the 2nd prize in DIPEX 2013.

10. RESEARCH AREA OF INTEREST

Sorption refrigeration systems, Adsorption Cooling System (ADCS), Finned tube type heat exchanger, Chemical Dehumidification, Desiccants and their use in Dehumidification, Natural refrigerants, and their uses.

Research Guidance:

a. UG Theses (Major):

1. Experimental Investigation on Stove Using Different Blends of Fuel.
2. Design and Fabrication of Terrabot.
3. Design and Fabrication of Vegetable Transplanter.
4. Smart Fuel Indicator
5. Design and Fabrication of Desiccant Wheel for Dehumidification

b. PG Theses (Major):

1. Performance Analysis of Thermal Characteristics of Transient Heat Transfer through Finite Fins and Various Shapes of Notches.
2. Experimental and CFD analysis of forced convection Heat Transfer over Al-Al ribbed surfaces.

11. AN INDUSTRIAL EXPOSURE

1. **In-Plant Trainee at Tirupati Ice Industry.** Venue: Erandol, Dist. Jalgaon (Maharashtra), India.425109. **Duration:** 25 April 2015 to 10 June 2015 (6 weeks).
2. **In-Plant Trainee at Indo German Tool Room (IGTR).** Venue: Aurangabad (Maharashtra), India. 431006. **Duration:** 12 Nov. 2011 to 12 Dec. 2011 (1 Month).

12. SOFTWARE SKILLS

1. **ANSYS – Fluent.** A CFD certification course, Venue: G H Raison College of Engineering (Autonomous), Nagpur (Maharashtra), India. **Duration: Sept. 2015 to Feb. 2016 (6 Months).**
2. **CATIA V5 R19.** A CAD Certification course. Venue: Indo German Tool Room (IGTR), Aurangabad (Maharashtra), India. **Duration: 12 Dec. 2011 to 28 Dec. 2011 (3 Weeks)**

13. STTP's/ FDP's/ WORKSHOPS

1. **Faculty Development Program (FDP) – Advanced Welding Technology. Awarded A+ Grade.** Venue: G. H. Raison Institute of Engineering and Management, Jalgaon (Maharashtra), India. **Duration: 29 Oct. 2018 to 31 Oct. 2018 (1/2 Week).**
2. **Short-Term Training Program (STTP) on Flexible Manufacturing Systems (FMS).** Venue: G. H. Raison College of Engineering (Autonomous), Nagpur, Maharashtra, India, 440016. **Duration: 19 Nov. 2018 to 24 Nov. 2018 (One Week)**
3. A UGC Approved **One and Half Week Faculty Development Program** under **SWAYAM Initiative. Heat Exchangers: Fundamentals and Design Analysis.** NPTEL Online Certification Course Organized by IIT Kharagpur and funded by the Ministry of HRD, Govt. of India. **Registration No.:** NPTEL18ME43S217501401810159376. **Obtained Marks:** 75% 'ELITE' Tag (Qualifying Percentage: 40%).
4. **Short-Term Training Program (STTP) on Ecological and Energy Efficient Refrigeration and Air Conditioning Systems.** Venue: G. H. Raison College of Engineering and Management (Autonomous), Wagholi, Pune, Maharashtra, India. **Duration: 7 June 2018 to 9 June 2018**
5. **National Symposium – Recent Trends in Solar Energy Technologies.** In Association with the Institution of Engineers and Solar Energy Society of India (SESI), New Delhi. **Venue:** S. B. Jain Institute of Technology, Management and Research. Nagpur (Maharashtra), India. **Duration:** 6 Jan. 2018 to 7 Jan. 2018 (2 Days).
6. **Induction Program - Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT).** Funded by MHRD, Govt. of India. **Venue:** Indian Institute of Technology, Bombay, Powai, Mumbai (Maharashtra), India. **Duration:** 28 Nov. 2017 to 20 Dec. 2017 (23 Days).
7. **Teacher Training Program - Pedagogy for Online and Blended Teaching-Learning Processes.** IIT Bombay-FDP201X. **Venue:** Remote center of IIT Bombay: GHRIEM, Jalgaon (Maharashtra), India. **Duration:** 14 Sept. 2017 to 23 Nov. 2017 (10 Weeks).
8. **Teacher Training Program - Foundation Program in ICT for Education.** IIT Bombay-FDP101X. **Venue:** Remote center of IIT Bombay: GHRIEM, Jalgaon (Maharashtra), India. **Duration: 3 Aug. 2017 to 7 Sept. 2017 (5 Weeks)**
9. **International Workshop - Advances in Mechanical Engineering.** Venue: Zeal College of Engineering and Research, Narhe, Pune (Maharashtra), India. **Duration:** 4 Jan. 2017 to 7 Jan. 2017 (1 Week).
10. **Short Term Training Programme (STTP) - Emerging Trends in Mechanical Engineering.** Venue: Guru Nanak Institute of Technology, Nagpur (Maharashtra), India. **Duration: 27 Dec. 2016 to 31 Dec. 2016 (1 Week).**

14. PUBLICATIONS

a. Summary:

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| I. Journal (International): 4 | III. Conference (International): 3 |
| II. Journal (National): Nil | IV. Conference (National): 1 |

b. Description:

1. **International Journal:** Manuscript submitted to International Journal of Green Energy, Taylor and Francis. Authors: Bhushan C. Behede, Dr. Uday S. Wankhede. **Title: Review of Adsorption Cooling System and Various Techniques of Performance Improvement.** Manuscript ID: IJGE-2016-0034.
2. **International Journal:** B. C. Behede and U. S. Wankhede, **“Review of the Adsorption Cooling Technology and Design of an Adsorber Bed Heat Exchanger,”** Int. J. Latest Trends Eng. Technol., vol. 6, no. 4, pp. 1–9, 2016.
3. **International Conference:** Bhushan C. Behede, Dr. Uday S. Wankhede. **“Development of Adsorption Cooling System for Vehicle Air Conditioning.”** First International Conference on Advances in Mechanical Engineering 2016 (ICAME 2016). Venue: G H Raison College of Engineering (Autonomous), Nagpur (Maharashtra), India. Duration: 3 June 2016 to 4 June 2016. **Proceeding:** “Advances in Mechanical Engineering (ICAME 2016).” ISBN: 978-93-5265-488-8.
4. **International Journal:** H. D. Wagh, V. A. Patankar, and B. C. Behede, International Journal of Innovations in Engineering and Science, **“Review of Designs of Adsorber Bed Heat Exchanger for Adsorption Refrigeration System,”** vol. 2, no. 1, pp. 5–7, 2017. E-ISSN: 2456-3463.
5. **International Conference:** Bhushan C. Behede, Dr. Uday S. Wankhede. **“Development of Finned Tube Type Adsorber Bed for Adsorption Cooling System.”** International Conference on Smart Technologies for Energy, Environmental & Sustainable Development (Publishing soon in Springer proceedings). Venue: G. H. Raison College of Engineering (Autonomous), Nagpur (Maharashtra), India. Duration: 28th July 2018 to 29th July 2018. **Proceeding:** Publishing in the springer soon.
6. **International Conference:** Bhushan C. Behede, Dr. Siddhartha S. Chakrabarti, Dr. Uday S. Wankhede. **“Review and Performance Investigation of Thermally Activated Rotary Desiccant Wheel Dehumidifier.”** **12th International Conference on Thermal Engineering: Theory and Applications.** Venue: Pandit Deendayal Petroleum University, Gandhinagar, Gujrat in collaboration with Ryerson University, Toronto, Canada. Duration: February 23-26, 2019. **Proceeding:** will be uploaded to Ryerson Library online soon.
7. **National Conference:** Bhushan C. Behede, Akshay Amrutkar, Amol Tade. **“Design and Analysis of Fins.”** 6th National Conference on **Technology & Innovations: Disrupting Businesses, Transforming Market.** Venue: G. H. Raison Institute of Business Management, Jalgaon (NAAC Accredited A Grade.), Maharashtra, India. 425002. **Duration:** 22nd March, 2019.
8. **International Journal:** Aartee S. Lokhande, Bhushan C. Behede, Rajesh V. Dahibhate. International Journal of Research and Scientific Innovations, **“Performance Analysis of Thermal Characteristics of Transient Heat Transfer through Finite Fins of Various Shape of Notches.”** Volume 6, Issue 1, pp. 56-61, ISSN: 2321-2705.

15. ACHIEVEMENTS

1. **Silver Medal** in M. tech for achieving the first rank in Academics in the department of **Heat Power Engineering.**
2. **2nd rank** for Under-Graduate Level project in **DIPEX 2013.**

16. REFERENCES

1. **Dr. Uday S. Wankhede**, Associate Professor, Department of Mechanical Engineering, Government College of Engineering, Chandrapur (Maharashtra), India. 442403. **Email:** udaywankhede74@gmail.com, **Contact No.:** +91 9822369627
2. **Dr. Siddharth S. Chakrabarti**, Professor, and HOD – Mechanical Department, O. P. Jindal University Punjipathra, Raigarh (Chhattisgarh), India. 496109. **Email:** siddharth.chakrabarti@opju.ac.in, **Contact No.:** +91 9827478048

17. DECLARATION

I hereby declare that particulars given herein are true and complete to the best of my knowledge and belief.

Date:

Place:

Bhushan C. Behede