

CURRICULUM VITAE



Bhushan Chandrakant Behede

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❖ Objective

To utilize and enrich my skills and knowledge to grow as an individual, and contribute to the growth of the organization as a whole.

❖ Work experience

Name of the Institute	Post	Department	From – To Date	Total Experience
Shri Vile Parle Kelavani Mandal's Institute of Technology (SVKM's IOT), Dhule (Maharashtra)	Assistant professor	Mechanical Engineering	06 June 2019 – till date	More than 5.5 Years
G. H. Raisoni Institute of Engineering and Management (GHRIEM), Jalgaon (Maharashtra)	Assistant professor	Mechanical Engineering	23 January 2017 – 25 May 2019	
Guru Nanak Institute of Technology (GNIT), Nagpur (Maharashtra)	Assistant professor	Mechanical Engineering	8 August 2016 – 20 January 2017	
G. H. Raisoni College of Engineering (GHRCE), Nagpur (Maharashtra)	Assistant Teacher (Through GATE Assistantship Scheme)	Mechanical Engineering	13 August 2014 - 21 May 2016	1.8 Years

❖ Education

Qualification	Institute	University	Year of Passing	Class
Ph.D. (Pursuing)	School of Engineering, OPJU, Raigarh, Chhattisgarh, India.	O. P. Jindal University (OPJU), Raigarh, Chhattisgarh, India.	Perusing (2018 Onwards)	-
M. Tech. (Heat Power Engineering)	G. H. Raisoni College of Engineering (Autonomous), Nagpur (MS), 440016.	Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur, Maharashtra, India.	2016	First-class with distinction (CGPA – 9.65) Silver Medalist
B.E. (Mechanical Engineering)	Pravara Rural Engineering College, Pravaranagar (MS), 413736.	University of Pune, Pune, Maharashtra, India.	2013	First-class with distinction (72%)
HSC (Science)	Padmashri Vikhe Patil College of Arts, Science and Commerce, Loni (MS), 413736	Pune Board, Maharashtra	2009	First-class with distinction (81.33 %)
SSC	R.T. Kabre Vidyalaya, Erandol (MS), 425109.	Nahsik Board, Maharashtra	2007	First-class with distinction (80.3 %)

❖ Awards and Honors

- **Silver Medal** in M. tech for achieving the **first rank** in the Department of **Heat Power Engineering** and **Second rank** at the Institution level.
- **Second Prize in DIPEX 2013:** for Under-Graduate Level project competition at State level.

❖ Skills

- **Productive Software Packages:** Microsoft Office - 365
- **CAD Software:** AUTO CAD, CATIA
- **CAE Software:** ANSYS-Fluent (Average), OPEN-FOAM (Basic), COMSOL (Average)
- **Programming languages:** C and C++ (Average), Python (Basic),
- **Other Software:** LaTeX (Average), R (Basic), Arduino (Basic), Scilab (Basic)

❖ Research Area/Projects

Research area: Desiccant wheels, Desiccants and their use in Dehumidification, Finned tube type heat exchangers, Refrigeration, and Air Conditioning applications

Projects:

1. **Ph.D. Project: Design and Performance Analysis of Rotary Desiccant Wheel Dehumidifier**
2. **Academic Projects completed: 2**
 - **Post-Graduation level:** Experimental investigations of an adsorption refrigeration system for vehicle air conditioning
 - **Under Graduation level:** Modified Coconut Tree Climber
3. **Under Graduate level projects guidance: 7 (Completed), 2 (Going on)**
4. **Post Graduate level projects guidance: 1**

❖ Membership of professional societies/bodies

1. **Universal Association of Mechanical and Aeronautical Engineers:** Membership ID: AM101000584969
2. **International Association of Engineers (IAENG)** – Membership number: 204831.
3. **The American Society of Mechanical Engineers (ASME)** – ASME Member ID: #000100763122.
4. **Solar Energy Society of India (SESI)** – Membership number: SM/3632/2014.

❖ Patents

Innovation Patent Granted by Government of Australia: **Patent number: 2021107426, Date: 8 December 2021**

Name of Innovation: A novel acoustic fluidized bed device for heat transfer application

❖ Publications

Summary of Publications

Papers Published in Journals : **SCOPUS Indexed: 2**, UGC: 5, **Total = 7**
Papers Published as Book chapter : **SCOPUS Indexed: 2**, Other = 1, **Total = 3**
Papers Presented in Conferences : **7**

Details of Papers published as a Journal paper:

Title of the Paper	Name of Authors	Journal Name	Indexed by
Review on nanoporous inorganic desiccant materials in the context of application in rotary dehumidifiers DOI: https://doi.org/10.1016/j.matpr.2021.12.227	Bhushan Behede , Siddharth Chakrabarti, Uday Wankhede, Hitesh Thakare	Materials Today: Proceedings	Scopus
Application of mixed-level design of Taguchi method to counter flow vortex tube DOI: https://doi.org/10.1016/j.matpr.2021.12.444	Hitesh Thakare, Ashok Parekh, Arif Upletawala, Bhushan Behede	Materials Today: Proceedings	Scopus
Generation, Distribution, and Utilization of an Electrical Energy in Industrial and Domestic Buildings	Bhushan C. Behede , Mohammed. Juneduddin, Yogesh D. Sonawane, Dattatray S. Doifode, Mahesh Dalwani	International Journal of Engineering and Advanced Technology	UGC
Performance Analysis of Thermal Characteristics of Transient Heat Transfer through Finite Fins of Various Shape of Notches	Aartee S. Lokhande, Bhushan C. Behede , Rajesh V. Dahibhate	International Journal of Research and Scientific Innovations	UGC
Review of Designs of Adsorber Bed Heat Exchanger for Adsorption Refrigeration System	H. D. Wagh, V. A. Patankar, and B. C. Behede	International Journal of Innovations in Engineering and Science	UGC
Review of the Adsorption Cooling Technology and Design of an Adsorber Bed Heat Exchanger	Bhushan C. Behede , Dr. Uday S. Wankhede	International Journal of Latest Trends in Engineering and Technology	UGC
Cycles for air conditioning systems operated using rotary desiccant wheels	Bhushan C. Behede , Siddharth S. Chakrabarti and, Uday S. Wankhede	International Journal of Multidisciplinary Educational Research	UGC

Details of Papers published as a Book chapter:

Title of the book chapter	Name of Authors	Name of the Book	Publisher	Indexed by
Development of Finned Tube Type Adsorber Bed for Adsorption Cooling System DOI: https://doi.org/10.1007/978-981-13-6148-7_52	Bhushan C. Behede , Dr. Uday S. Wankhede	Smart Technologies for Energy, Environment and Sustainable Development	Springer, Singapore	Scopus

Performance Analysis of Desiccant Material Prepared by Simple Mixing of Silica Gel and Calcium Chloride DOI: https://doi.org/10.1007/978-981-16-7660-4_1	Bhushan C. Behede , Siddharth S. Chakrabarti, Uday S. Wankhede	Recent Advances in Mechanical Infrastructure	Springer, Singapore	Scopus
Development of Adsorption Cooling System for Vehicle Air Conditioning	Bhushan C. Behede , Dr. Uday S. Wankhede	Proceedings of First International Conference on Advances in Mechanical Engineering 2016 (ICAME 2016)		

Details of Papers presented in various conferences:

Name of the Conference	Organized by	Title of the presented paper
International Conference on Innovation and Application in Science & Technology	Department of Applied Sciences Galgotias College of Engineering and Technology Greater Noida, U.P, India	Review on nanoporous inorganic desiccant materials in the context of application in rotary dehumidifiers
3rd International Conference on Recent Advances in Mechanical Infrastructure	Institute Of Infrastructure Technology Research And Management, Ahmedabad, Gujarat, India	Performance Analysis of Desiccant Material Prepared by Simple Mixing of Silica Gel and Calcium Chloride
International Conference on Smart Technologies for Energy, Environment & Sustainable Development (ICSTEESD-20)	GHRCE, Nagpur, Maharashtra, India	Review of composite desiccants and their properties for rotary wheel dehumidifiers
12th International Conference on Thermal Engineering: Theory and Applications	PDPU, Gandhinagar, Gujarat, India	Review and Performance Investigation of Thermally Activated Rotary Desiccant Wheel Dehumidifier
International Conference on Smart Technologies for Energy, Environment & Sustainable Development (ICSTEESD-18)	GHRCE, Nagpur, Maharashtra, India	Development of Finned Tube Type Adsorber Bed for Adsorption Cooling System
First International Conference on Advances in Mechanical Engineering (ICAME – 16)	GHRCE, Nagpur, Maharashtra, India	Development of Adsorption Cooling System for Vehicle Air Conditioning
National Conference on Technology & Innovations: Disrupting Businesses, Transforming Market	GHRIBM, Jalgaon, Maharashtra, India	Design and Analysis of Fins

❖ Training Sessions/Development Programs

- STTP'S/ FDP'S/ WORKSHOPS: 39, Out of which,
 - Physically attended: 6
 - Online attended on platforms like NPTEL, IITBombayX, QASPIR, COURSERA, TCSION, NMEICT, etc.: 30
- Induction Program for teachers (Physically attended): 3
- Online courses completed (but not recognized as FDPs): 6

❖ Industrial Exposure

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

❖ Subjects Taught

a. UG Level:

1. Refrigeration and Air Conditioning (RAC)
2. Heat Transfer (HT)
3. Applied Thermodynamics (AT)
4. Energy Conversion III (EC III)
5. Power Plant Engineering (PPE)
6. Automobile Engineering (AE)
7. Theory of Machines – II (TOM II)
8. Machine Drawing and CAD (MDCAD)
9. Solar Energy (SE)
10. Energy and Environmental Engineering (EEE)
11. Theory of Machines – I (TOM – I)
12. Manufacturing Process – I (MP – I)

b. PG Level:

1. Convective Heat Transfer
2. Applied Thermodynamics

❖ Certification Courses

Name of Course	Platform	Grade/Percentage
LaTeX101x: LaTeX for Students, Engineers, and Scientists	IITBombayX	Honor Code grade A Certificate
Energy Conservation and Waste Heat Recovery	NPTEL	76% 'ELITE' Tag
Heat Exchangers: Fundamentals and Design Analysis	NPTEL	54%
Convective Heat Transfer	NPTEL	75% 'ELITE' Tag
Refrigeration and Air Conditioning	NPTEL	72% 'ELITE' Tag

❖ Major Contribution at University Level

- **Paper Setter** for Theory of Machines - II (TOM – II) Subject.
- **Online Content Developer** for Theory of Machines - II (TOM – II) Subject

❖ Personal Information and Social Presence

- **Date of Birth:** 20/05/1992
- **Marital status:** Married.
- **Domicile:** Maharashtra.
- **Nationality:** Indian.
- **Language Skills:** English, Hindi, Marathi, and, Marwari
- **Strengths:** Passionate, Confident, Efficient time management, good communication skills.
- **Weakness:** Emotional
- **LinkedIn Profile:**
<https://www.linkedin.com/in/bhushanbehede1992/>
- **ORCID iD:** <https://orcid.org/0000-0002-8833-4288>
- **Research gate Profile:**
https://www.researchgate.net/profile/Bhushan_Behede

❖ Declaration

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

Date:

Place:

Bhushan Chandrakant Behede.