

RESUME

Mr.Wani Sawan Anilchandra

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PROFESSIONAL SUMMARY:

- Mechanical Engineering academician with 14+ years of teaching experience and ongoing PhD research in Thermal Engineering field.
- Specialization in Fluid Mechanics, Natural Convection Heat Transfer, Refrigeration and Air Conditioning.
- 20+ research publications, 5 patents, and multiple copyrights.
- Author of 3 books on Refrigeration and Air Conditioning published on Amazon Kindle
- Experienced in UG & PG teaching, experimental research, and innovation-driven projects.

PROFESSIONAL EXPERIENCE:

Total – 14.5 years
14 years (Teaching)
6 months (Industrial)

- 1) 13.5 years as Assistant Professor in PVPIT. Budhgaon (Currently Working)
- 2) Six Months as Lecturer in M.D.Jadhav Institute of Technology, Bhose.
- 3) Six Months Industrial Experience as a Production Engineer in Tulsi Castings & Machining Ltd. MIDC Kupwad, Sangli.

RESEARCH INTERESTS:

- Natural Convection Heat Transfer
- Heat Transfer Enhancement Techniques
- Fin Arrays and Surface Modification
- Thermal Systems and Energy Efficiency
- Refrigeration and Air Conditioning Systems

RESPONSIBILITIES:

- Working as Controller of Examinations (COE) for Autonomous Institute Section
- Working as PG Coordinator in Heat Power Engineering
- Working as Institute Social Media Coordinator
- NAAC Central Co-Coordinator
- Working as Department Result Analysis Coordinator
- Institute Innovation Ambassador
- Teaching UG and PG courses in Mechanical Engineering
- Guiding research projects and dissertations
- Conducting experimental research in thermal engineering
- Organizing workshops, FDPs and technical events
- Mentoring students in national competitions

EDUCATION:

Research Scholar in Mechanical Engineering at Shivaji University Kolhapur

Education	Passing Year	School / College	% Marks	Class Obtained
Ph.D. in Mechanical Engineering	Pursuing	Shivaji University, Kolhapur Research Center KIT, Kolhapur	Course Work Completed (80%) 3 Progress Reports Completed	
Masters in Mechanical – Heat Power Engineering (M.E)	2015	Dr.J.J.Magdum College of Engineering, Jaysingpur	77.89 (1st Rank)	Distinction
Bachelor in Mechanical Engineering (B.E.)	2011	Padmabhooshan Vasantrodada Patil Institute of Technology, Budhgaon	77.29 (1st Rank) University 7th Rank	Distinction
Diploma in Mechanical Engineering (D.M.E.)	2008	Latthe Education Society's Polytechnic, Sangli	78.92 (1st Rank)	Distinction
S.S.C	2005	Emmanuel English School, Sangli	68.26	First

RESEARCH PUBLICATIONS:

- 23+ Papers Published in International Journals
- 9 International Conference Papers
- Research areas: Heat Transfer, Fin Arrays, Thermal Systems

Received **Best Paper Award** in International Conference on Innovative Engineering Technologies (ICIET - 2025) for research paper entitled “Design Optimization and Thermal Analysis of Fins on a Heat Sink for effective cooling of electronic appliances” organized by Kolhapur Institute of Technology’s College of Engineering, Kolhapur and Ningxia University, China at Hotel Sayaji, Kolhapur on 11-12 September,2025

PATENTS GRANTED:

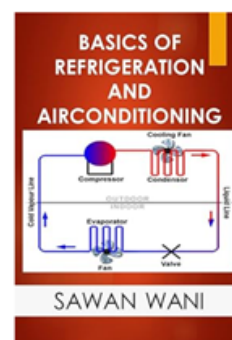
Sr No	Title of Patent & Application Number	Awarded Date
1	Potato Peeling and Steaming Machine - 332991-001	20/10/2020
2	Vegetable cutting and slicing machine - 332991-002	16/10/2020
3	Cowshed Cleaning Machine - 337948-001	16/03/2021
4	Absorption Tower with PIN-FIN Arrangement - 347584-001	15/10/2021
5	Portable Dry Handwashing Machine - 358536-001	28/03/2022

COPYRIGHTS AWARDED:

Sr.No.	Title of Copyright & Application Number	Awarded Date
1	Technical interpretation of Mantrapushpam - A study – L-104432/2021	14/06/2021
2	Bharatiya Guyanparampara ki Samridh Manviyavidhyata aur uska vartman kaleen maanvi sansadhano ki Vyavastha meim Upayojan - L-106148/2021	19/08/2021
3	Air Conditioning - L-107575/2021	19/08/2021
4	Absorption Tower with PIN-FIN Arrangement - 347584-001	15/10/2021
5	Portable Dry Handwashing Machine - 358536-001	28/03/2022
6	Refrigeration - L-102883/2021	16/08/2022
7	Determination of Heat Transfer Performance from an Aluminium Vertical Plate with Various Types of Fins (Natural Convection Conditions) - L-128786/2023	19/05/2023
8	Arc Reactor - L-128572/2023	20/05/2023
9	Marathi Bolibhasheteel Dhatu v Rasshastra Vishayak Shabdancha Kosh - L-121020/2023	13/08/2023
10	Design of material handling system by using renewable energy source - L-123255/2023	16/08/2023
11	Solar powered material handling system - L-120898/2023	15/09/2023
12	Experimental Analysis and Comparison of an Aluminium Plate with V-Fins under Natural Convection Heat Transfer Conditions - L-122473/2023	18/10/2023
13	IOT based hydroponic system for effective farming – L-108618/2021	13/11/2023

BOOKS PUBLISHED:

- Refrigeration – Amazon Kindle (2021)
- Air Conditioning – Amazon Kindle (2021)
- Basics of Refrigeration and Air Conditioning – Amazon Kindle (2023)



INSTITUTE INNOVATION AMBASSADOR WORK:

- Completed Innovation Ambassador Advanced Training
- Completed Innovation Ambassador Re-Skilling Training
- Up-Skilling Training in Progress

AWARDS:

- Awarded as **First Ranker** in Master's in Mechanical Heat Power Engineering in JJMCOE, Jaysingpur
- Awarded as **First Ranker** in Bachelor in Mechanical Engineering in PVPIT, Budhgaon
- Shivaji University Rank - **7th**
- Awarded as **First Ranker** in Diploma in Mechanical Engineering in LESP, Sangli

PG COURSES TAUGHT:

- Advanced Fluid Mechanics
- Cryogenic Engineering
- Design of Air Conditioning Systems

UG COURSES TAUGHT:

- Fluid Mechanics
- Fluid and Turbo Machinery
- Refrigeration and Air Conditioning
- Automobile Engineering
- Renewable Energy Sources

RESEARCH GUIDANCE:

- Guided 6 M.Tech Dissertations in Heat Power Engineering
- Guided several Undergraduate Research Projects

FACULTY DEVELOPMENT PROGRAMMES AND WORKSHOPS:

- 60+ FDPs attended
- UGC Refresher Course – Advances in Thermal Engineering (2025)
- AICTE-ISTE Approved Orientation Program on Emerging Trends in Refrigeration and Air Conditioning
- AICTE Sponsored FDP on Energy Conservation and Audit
- FDP on Renewable Energy Systems
- AICTE Sponsored Teacher Training Program on Machine Learning and IoT in Mechanical Engineering

PROFESSIONAL MEMBERSHIPS:

- International Association of Engineers (IAENG) – Membership no. 292871
- IFERP – Professional Membership – Membership ID – PROF-2217423
- ISHRAE – Member

PROJECTS UNDERTAKEN:

- **Ph.D. Research Topic** – Design Optimization and Thermal Analysis of Fins on a Heat Sink for effective cooling of electronic appliances
- **PG Level** - Dissertation Title – Experimental Investigation of natural convection heat transfer from a Special V fin array
Result – Found the best possible arrangement of V Fins
- **UG Level** - Project Title - Turbo charging of Two Wheelers
Result - Improved the actual mileage of an old luna by 5km/ltr
- **Diploma Level** - Portable Weed Remover
Manual Operated Weed Remover was constructed which was used in small farms.

RESEARCH PROFILES:

Google Scholar: <https://scholar.google.com/citations?user=DtjhCTcAAAAJ>

ResearchGate: <https://www.researchgate.net/profile/Sawan-Wani>

Citations	h-index	i10 index
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EXTRACURRICULAR ACTIVITIES:

- Reading
- Sangli District Cricket Umpiring

KEY SKILLS:

1. Strong teaching ability in Thermal Engineering, Heat Transfer, Refrigeration & Air Conditioning, and Fluid Mechanics.
2. Ability to guide undergraduate and postgraduate students in research projects, experimental investigations, and technical competitions.
3. Experience in experimental setup development and heat transfer analysis related to natural convection and fin arrays.
4. Effective mentoring skills to support slow learners and improve students' analytical and problem-solving abilities.
5. Good communication and presentation skills with ability to explain complex engineering concepts clearly.
6. Experience in academic research, technical writing, and publication of research papers in international journals.
7. Ability to motivate students for innovation, patents, and participation in national level technical events.

PERSONAL DETAILS:

- Gender - Male
- Date of Birth - 10/02/1990
- Languages Known - English, Hindi, Marathi, Gujarathi
- Nationality - Indian

I hereby, confirm that , the above mentioned data is true to the best of my knowledge .

Mr.Wani Sawan Anilchandra