

## CURRICULAM VITAE

**Dr. Sardar Mansoor Shaikh**  
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### Carrier Objective:

To make a positive impact of my experience on an educational organization's growth, by putting all my efforts into the work assigned to me, where I can grow along with the organization.

### Educational Qualifications:

<b>Examination Passed</b>	<b>Institution</b>	<b>University/ Board</b>	<b>Subjects/ Specialization</b>	<b>Percentage and Year of Passing</b>
Ph.D.(Mech.)	School of Technology	Sanjay Ghodawat University, Atigre, Kolhapur	Thermal Engineering	Ph.D. Completed. 09th July 2024
M.E	P.V.P.I.T. Budhagao, Sangli	Shivaji University, Kolhapur	Heat Power Engineering	62.11 2012
B.E	B.N. College of Engineering, Pusad	S.G.B.A. University, Amaravati	Mechanical Engineering	63.46 2000
Diploma	R.I.T. Sakharale	M.S.B.T.E. Mumbai	Automobile Engineering	70.42 % 1997
Diploma	Govt. Polytechnic, Miraj	M.S.B.T.E. Mumbai	Mechanical Engineering	55.09 1996

### Details of Industrial Experience:

<b>Sr No</b>	<b>Organization</b>	<b>Position held</b>	<b>Nature of Appointment</b>	<b>Period of Appointment with dates</b>
01	Shree Swastik Steels Pvt.Ltd. M.I.D.C. Shirol, Kolhapur	Plant Engineer	Temporary	10.06.2000 to 30.08.2001
02	PRAM Engineers, Kolhapur	Service Engineer	Regular	16.02.2002 to 30.4.2003
03	Vedant Equip Sales & Service, Pune	Asst.Manager (After Market)	Regular	02.05.2003 to 31.01.2005

### Teaching Experience:

<b>Organization /Institute</b>	<b>Position held</b>	<b>Nature of duties/work</b>	<b>Date of joining</b>	<b>Remark</b>
Dr. J.J. Magdum College of Engineering, Jaysingpur.	Assistant Professor	Teaching	1 <sup>st</sup> Feb 2005	25-09-2023
Walchand College of Engineering, Sangli	Assistant Professor (PG-Thermal)	Teaching	12.08.2024	11.07.2025 (Adhoc)

## Research Interests:

Internal Combustion Engines, Alternative Fuels, Heat and mass transfer, Refrigeration and Air Conditioning, Air Compressors and Compressed Air Treatment, Waste Heat recovery, Renewable Energy.

## Publications:

Sr. No.	Year of Publication	Title of Paper	Google Link/ Details of Paper /ISSN
01	2025	CFD modelling and analysis of a two-phase closed thermosyphon charged with Distilled Water.	Communicated to Taylor and Francis Int. Journal , accepted and under review.
02	2024	Performance evaluation of common rail direct injection engine run on Bio-diesel of used temple oil (BTO) using Response surface methodology	Article ID: 03-17-08-0062 © 2024 SAE International doi:10.4271/03-17-08-0062
03	2024	Experimental Investigation of Performance of Domestic Refrigerator Working on R600a With Addition of Tio2 Nano lubricant	May 2024   IJIRT   Volume 10 Issue 12   ISSN: 2349-6002
04	2024	Studies on Biodiesel and Hydrogen Powered Dual Fuel Common Rail Direct Injection Engine.	<a href="https://doi.org/10.17485/IJST/v17i10.3194">10.17485/IJST/v17i10.3194</a>
05	2024	Performance Investigation Of Common Rail Direct Injection Engine Powered With Biodiesel Of Used Temple Oil (BTO)	<a href="http://www.journal-iiie-india.com/1_feb_24/8.1_feb.pdf">http://www.journal-iiie-india.com/1_feb_24/8.1_feb.pdf</a>
06	2023	Performance, combustion and emission characteristics of diesel engine in different modes run on alternate fuels - A review	<a href="http://www.ijert.org/papers/IJCRT2312664.pdf">http://www.ijert.org/papers/IJCRT2312664.pdf</a>
07	2023	An Experimental Investigation on CI Engine powered with Biodiesel of used temple oil at different injection pressures and combustion chamber shapes.	<a href="https://harbinengineeringjournal.com/index.php/journal/article/view/2056">https://harbinengineeringjournal.com/index.php/journal/article/view/2056</a>
08	2022	Advanced Food Delivery Box	www.irjmets.com
09	2020	Experimental Investigation of inclined aluminum Vertical Plate under natural convection heat transfer condition with fins attached in V-form: A Review	<a href="http://www.j-asc.com/gallery/6-jasc-january-3454.pdf">http://www.j-asc.com/gallery/6-jasc-january-3454.pdf</a>
10	2019	Experimental Investigation of Inclined Aluminum Vertical Plate under Natural Convection Heat Transfer Condition with Fins Attached in V-Form: A Review	<a href="http://www.ijesrd.com/articles/IJSRDV7I80146.pdf">http://www.ijesrd.com/articles/IJSRDV7I80146.pdf</a>
11	2018	Performance investigation of single basin double slope solar still with and without phase change material and effect of reflector and fins	<a href="https://www.irjet.net/archives/V5/i8/IRJET-V5I8291.pdf">https://www.irjet.net/archives/V5/i8/IRJET-V5I8291.pdf</a>
12	2017	Performance Analysis Of Forced Convection Solar Dryer For Turmeric	<a href="https://www.irjet.net/archives/V4/i11/IRJET-V4I11104.pdf">https://www.irjet.net/archives/V4/i11/IRJET-V4I11104.pdf</a>
13	2016	Thermal performance investigation of evacuated tube heat pipe solar collector with Nano fluids	<a href="http://www.ijesrt.com/issues%20pdf%20file/Archive-2016/December-2016/111.pdf">http://www.ijesrt.com/issues%20pdf%20file/Archive-2016/December-2016/111.pdf</a>

14	2016	Review on Experimental Performance Investigation of Household Refrigerator with Latent Thermal Energy Storage	International Journal of Engineering Sciences & Research Technology.
15	2016	Review paper on Performance Evaluation of Distillery Plant Through Energy Conservation Methods.	International Journal of Engineering Sciences & Research Technology <a href="http://dx.doi.org/10.5281/zenodo.56984">http://dx.doi.org/10.5281/zenodo.56984</a>
16	2015	Experimental Investigation of Rapeseed Oil Methyl Ester Powered by Variable Compression Ratio (VCR) Diesel Engine with Effect of Exhaust Gas Re-circulation (EGR)	<a href="https://www.ijrst.org/articles/IJRSTV3I2148.pdf">https://www.ijrst.org/articles/IJRSTV3I2148.pdf</a> <a href="http://www.ijesrt.com">http://www.ijesrt.com</a>
17	2013	Performance Investigation of Window Air Conditioner	<a href="https://www.iosrjournals.org">https://www.iosrjournals.org</a> > <a href="#">iosr-jmce</a> > <a href="#">papers</a>
18	2010	New Cooling Technology for Electronic Equipment.	<a href="https://www.iosrjournals.org">https://www.iosrjournals.org</a> > <a href="#">iosr-jmce</a> > <a href="#">papers</a>

### International Conference:

1. “Effect of Multiple Fuel Injection Strategies on the Performance of Common Rail Direct Injection Engine Fueled with Biodiesel of Used Temple Oil”. (Accepted at **ICITEEB- 2024**, 3<sup>rd</sup> - 4<sup>th</sup> July 2024, Chandigarh University, Punjab) (Scopus)
2. “Experimental Investigation on CI Engine Powered with Biodiesel of Used Temple Oil at different Injection Pressures and Combustion Chamber Shapes”
3. International Conference on Innovations in Engineering, Science & Technology [**ICIEST-2023**] organized by Ajeenkya DY Patil School of Engineering, Pune
4. “A review on effect of exhaust gas re-circulation recirculation on NOx reduction from CI Engine”- **ICRIEM-2016** held on 23<sup>rd</sup> March 2016 at BIMAT, Kolhapur
5. “Performance Investigation of Window Air Conditioner “at International Conference on Emerging Trends Engineering **ICETE-2013** held on 22<sup>nd</sup>&23<sup>rd</sup> Feb.2013 at Dr.JJMCOE, Jaysingpur and paper published in IOSR Journal of Mechanical Engineering.
6. “New Cooling Technology for Electronic Equipments” in International Conference on Emerging Trends in Engineering-**ICETE-2010** held during 20<sup>th</sup> -21<sup>st</sup> February 2010.
7. “The development of High Performance Thermal System-Augmentation in Heat Transfer”
8. ,22-24<sup>th</sup> Sept.2008.International Conference at IISc, Bangalore, **TEAMTECH2008**.
9. “Forced Convection Air cooling of Electronic Equipment by using Pin-Fin Array”, 4<sup>th</sup> -6<sup>th</sup> Oct.2007.International conference at Govt. College of Engineering, Ujjain (MP)
10. “Forced Convection Liquid cooling of Electronic Equipment” 4<sup>th</sup> -6<sup>th</sup> Oct 2007, International Conference at Govt. College of Engineering, Ujjain (M.P.)

### National Conference:

1. “Study of Inclined Two phase closed Thermosyphon using Computational Fluid Dynamics Analysis - Review” - 9<sup>th</sup> October 2015, National Conference on Recent Trends In Energy Engineering at PVPIT, Budhgaon, Sangli-416304
2. “New Energy Technology for Compressed air- A case study”- 8<sup>th</sup>&9<sup>th</sup> February 2013, National Conference on Recent Practices in Conventional & Non-Conventional Energy Sources (RPCNeR-2013) at SGI, Atigre, Kolhapur.

3. “Wastage Heat Recovery- Biomass Gasifier” 30<sup>th</sup> March 2010, National Conference at PVPIT, Budhgaon, Sangli.
4. “Liquid Cooling of Electronic Equipment’s”, 5<sup>th</sup>-6<sup>th</sup> September 2007, National Conference at A.G. Awate COE, Pune.
5. “Energy of Future-Hydrogen”, 2<sup>nd</sup> -3<sup>rd</sup> March 2007 National Energy Conference at TKIET, Warananagar.
6. “Most Efficient and Clean source of fuel”- 5<sup>th</sup> -6<sup>th</sup> March 2007, National Conference at Deccan COE, Hyderabad.
7. “Energy of Future-Hydrogen”, 16<sup>th</sup>-17<sup>th</sup> February 2007, National Energy Conference at SVC, Polytechnic, Pune.

### **Book chapter publication:**

1. Published a book chapter titled “Effect of Multiple fuel Injection strategies on the performance of a CRDI Engine fueled with Bio-diesel from Used Temple Oil” in the book Integrated Technologies in Electrical, Electronics and Biotechnology Engineering, published by CRC press- Taylor & Francis Group. - DOI:10.1201/9781003606208-39 on 3<sup>rd</sup> Feb.2025

### **STTP/ FDP/ REFRESHERCOURSE:**

Sr. No	Name Of STTP/FDP/REFRESHER COURSE	Place	Duration	Date
01	Technological Advancement in HVAC &R ,research & innovation in space & automobile AC sysytem.	MSIT & ISHRAE,Kolkata (online Mode)	One week	22 <sup>nd</sup> -26 <sup>th</sup> July,2025
02	Waste to Energy Conversion	IIT, Madras (NPTEL)	Eight Week	Jan-Mar2023
03	A New era of Manufacturing- Challenges and Opportunities	Dept. of Mech. Engg. DYP College of Engg. & Technology ,Kolhapur	One Week	25th -30th July2022
04	Machine Learning –Application in Mechanical Engineering	Dr.JJMCOE, Jaysingpur	One Week	14th -18th February 2022
05	Recent Trends in Refrigeration and Air Conditioning	Department of Mechanical Engineering, ADCET, Ashta	One week	June 21 -25,2021
06	Recent Trends in Mechanical Engineering	Department of Mech. Engg., SBGI, Miraj	One Week	September 26 <sup>th</sup> to 2 <sup>nd</sup> Oct.2021
07	Recent Trends in Mechanical Engineering	The ICFAI University, Jaipur	One Week	July 20-24 ,2021
08	Workshop on Research Methodology in Fluid Mechanics,	BITS, Pillani NWRMFM 2021(Online Mode)	One Week	June 07th -11th ,2021
09	Workshop on Recent Advances in Thermal Engineering	BITS- Pillani IWRATE- 2020(Online Mode)	One Week	June29th –July 03rd,2020

10	FDP - Enhancing Research & Consultancy Skills	RIT Sakharale (RIT-CTL)	One Week	June22-26,2020
11	One Week FDP on RAC	NCET, Bangalore	One Week	09th to 13th July 2018
12	Design & Development of Air Conditioning System	GCOE, Pune	One Week	01st to 5th Jan.2018
13	Refresher course on advances in RAC	MNIT Jaipur	One Week	12nd - 16th Dec. 2016
14	Recent Trends in Energy Research	DBATU, Lonere	One Week	December 7-11,2015
15	Faculty Induction Program	Dr. JJMCOE	One Week	15th to 22nd July 2015
16	Recent Trends In Design ,Failure Analysis &Maintenance of Bearings.	Dr. JJMCOE	One Week	22 <sup>nd</sup> to 26 <sup>th</sup> June 2015
17	Research Methodology: Tools & Techniques.	Dr. JJMCOE	One Week	07th Jan. to 11 th Jan.2014
18	Engineering Thermodynamics	SGI, Atigre	Two Weeks	11th-21th Dec.2012
19	FEM-Tool for non-linear analysis	Dr. JJMCOE	One weeks	21st -26th Dec.2009
20	Teaching Pedagogies and Modern Trends In Teaching.	Dr. JJMCOE	One weeks	26th Dec.2006 to 06th Jan.2007
21	FDP- Entrepreneurship	RIT-Sakharale	Two Weeks	11th -20th Dec.2006

### Workshop attended:

- 21 Apr. 2025 – One-day workshop on Prototype Design and Development, IIE cell, Walchand College of Engineering, Sangli
- Jan-Mar 2023 – NPTEL Online Certification Course on Waste to Energy Conversion, IIT Roorkee
- 18 Mar. 2023 – One day workshop on Research Funding Scheme and Writing Proposals, R&D Cell, Dr. JJMCOE, Jaysingpur
- 17 Mar. 2023 – One Day Training program on Local Inquiry Committee, KMC College, Kolhapur
- 3 Mar. 2023 – One Day International Workshop on Project Based Learning Implementation – NEP2020 & Beyond, Sanjay Ghodawat University, Kolhapur
- 12 Jun. 2021 – One Day workshop on Final Year B. Tech. (CBCS) Mechanical Engineering (Thermal/Power Group) syllabus setting, SGMCOE, Mahagaon
- 17 Jan. 2020 – One Day Workshop on Third Year B.Tech. Mechanical Engineering (C.B.C.S.) syllabus setting, TKIET, Warananagar
- 14 Aug. 2018 – One Day Workshop on Curriculum Development and Syllabus Framing of M.Tech. Mechanical (Heat Power Engineering), Dr. JJMCOE, Jaysingpur
- 16 Jan. 2018 – Attended One Day conference REFCON-2018, ISHRAE Pune & Kolhapur-Sangli Sub Chapter
- 23 Dec. 2016 – One Day Faculty Training Program on I.C. Engines Dismantling and Assembly

Hands-on Practice, Dr.JJMCOE, Jaysingpur

11. 20 Aug. 2016 – One Day workshop on Virtual Lab for Refrigeration and Air Conditioning, KIT's  
College of Engineering, Kolhapur

12. 19 Aug. 2016 – One Day workshop on Teaching Methodology for B.E. (Mechanical) New Syllabus, Dr. JJMCOE, Jaysingpur
13. 24–25 Oct. 2016 – Two Days Workshop on Recent Trends In Heat Exchangers, WCE, Sangli
14. 22 Apr. 2015 – Technical Seminar on Variable Primary Flow Chilled Water System, ASHRAE Pune Chapter
15. 12 Feb. 2015 – One Day workshop on Teaching Methodology of S.E. Mechanical and Design Subjects Curriculum Development, Dr. JJMCOE, Jaysingpur
16. 30 Jan. 2015 – One Day workshop on Curriculum Development and Syllabus Framing, DKTE, Ichalkarnji
17. 29 Nov. 2014 – Attended DL on Cold Room Technology, ISHRAE Kolhapur-Sangli Sub Chapter
18. 22 Sept. 2015 – One Day workshop on Fusion 360, Dr. JJMCOE, Jaysingpur
19. 14 Aug. 2015 – Faculty Development Program on Building Energy Efficiency, CEPT University & ISHRAE HQ
20. 1 Aug. 2015 – One Day workshop on Teaching Methodology for TE/BE Mechanical (Heat Power), PVPIT, Budhgaon
21. 13 Jan. 2015 – Attended DL on Application of CFD in HVAC System, ASHRAE Pune Chapter
22. 23–25 Mar. 2015 – Three Days Workshop on Heat Transfer Equipment's, PVPIT, Budhgaon
23. 10 Sept. 2014 – One Day workshop on Introduction to LATEX, Dr. JJMCOE, Jaysingpur
24. 7 Feb. 2014 – Attended Technical Program on Low Charge Ammonia System, ASHRAE Pune Chapter
25. 7 Sept. 2013 – Attended DL workshop on Sustainability for Better Tomorrow, ASHRAE Pune Chapter
26. 2 Feb. 2013 – One Day workshop on Safety in Refrigeration Plants for Dairies and Cold Storages
27. 15–16 Feb. 2013 – Two Days workshop on Automotive Testing: Methodology and Instrumentation, Shivaji University
28. 12 Oct. 2012 – One Day workshop on Teaching Methodology in PG Mechanical – Heat Power, PVPIT, Budhgaon
29. 26 Nov. 2011 – One Day workshop on Best Practices in Refrigeration Systems, ASHRAE Pune Chapter
30. 24 Oct. 2011 – Attended DL on Zero Energy Building and Energy Plus, ASHRAE Pune Chapter
31. 7 Oct. 2011 – One Day workshop on Engineering Education Towards Global Repute, Dr. JJMCOE, Jaysingpur
32. 9 Sept. 2011 – One Day workshop on Industrial Consultancy, Dr. JJMCOE, Jaysingpur
33. 28–29 Jan. 2011 – Two Days National Workshop on Recent Trends in Heat Exchangers, WCE, Sangli
34. 25–26 Feb. 2011 – Two Days Workshop on Mechatronics Systems and PLC Programming, Dr. JJMCOE, Jaysingpur
35. 8 Jan. 2010 – One Day workshop on Curriculum Development of B.E. Mechanical, Dr. JJMCOE, Jaysingpur

36. 1 Aug. 2009 – One Day workshop on Teaching Methodology for T.E. Mechanical, PVPIT, Budhgaon
37. 9 Jan. 2009 – One Day workshop on Syllabus Revision for T.E. Mechanical, DKTE, Ichalkarnji
38. 30 Apr. – 2 May 2022 – Three Days Workshop on Outcome Based Education, Dr. JJMCOE, Jaysingpur
39. 18–20 Dec. 2007 – Three Days Workshop on Developing Teaching Competencies, RIT, Sakharale
40. 28–29 Mar. 2007 – Two Days workshop on Flood Management, Dr. JJMCOE, Jaysingpur
41. 19–20 Jan. 2007 – Two Days workshop on Control Techniques for Mechanical and Electronics Systems, Dr. JJMCOE, Jaysingpur

### Expert Lecture Delivered

01. Expert lecture on topic “**Heat Exchangers – Textile Applications Effectiveness**” for **Final Year B. Tech (TC)** Students at DKTE’s Textile and Engineering Institute, Ichalkarnji.
02. Expert lecture on topic “**Advances in refrigeration**” for STTP organized by BSIET, Kolhapur
03. Expert lecture on topic “**Heat Exchangers**” for **Second Year B. Tech (TC)** Students at DKTE’s Textile and Engineering Institute, Ichalkarnji.

### Departmental responsibilities:

1. Head of Department
2. Training Placement Coordinator
3. ISHRAE- Faculty Advisor
4. ASHRAE- Student Branch Advisor (PG)
5. Time Table & Load distribution In-Charge
6. R&D Coordinator
7. Departmental Discipline Coordinator
8. Class Coordinator.
9. Academic Coordinator
10. III- Coordinator.
11. PG-Teacher (Heat Power Engineering)
12. ISHRAE- Faculty Advisor, at WCE
13. Departmental Quality Assurance & DAB Coordinator, at WCE
14. PG Coordinator - Thermal Engineering, at WCE

### Institute level responsibilities:

1. Regional admission
2. Discipline Head
3. Examination Coordinator
4. Training Placement Officer
5. EDC- officer
6. Counseling Committee member
7. Grievances Cell member
8. FC officer
9. Coordinator for Inspection.
10. Internal & External Sr. Supervisor
11. Chief Coordinator for House Keeping

### **Events and training program organized:**

1. Organized the chapter level quiz at Walchand College of Engineering, Sangli
2. Organized ASHRAE membership promotion seminar by Mr. Suhas Deshpande for UG and PG students at WCE, Sangli
3. Organized National Event (Signature Event) titled ASHWAMEDH 2K23
4. Student activity under SORT and R&D Cell: INNOVATE 2K23
5. Student activity under SORT and R&D Cell: INNOVATE 2K22
6. ISHRAE Speaks-2020 webinar series
7. Webinar on “Career Opportunities in DRDO”
8. ASHRAE Night for student branch
9. IJJ (Industry Joint Journey) for ISHRAE student members
10. LEAD College Activity on “Finite Element Method”
11. STTP on Machine Learning – Applications in Mechanical Engineering
12. Curriculum Development and Syllabus Framing of M.Tech.- Mechanical (Heat Power Engineering) (Shivaji University)
13. One Day training program on Automobile Air Conditioning (LEAD college activity with ISHRAE Kolhapur Sangli Sub Chapter)
14. Training program on Basics of Refrigeration and Air Conditioning
15. aQuest Technical Quiz competition sponsored by ISHRAE HQ
16. CRYO-TECH 2013
17. Organized ASCENT-2009 – A National Level Technical Paper Presentation Competition under ISTE Local Chapter
18. No Vehicle Day
19. World Ozone Day Celebration
20. Showroom Salesman Training Campaign on Star Rating and Energy Labeling by ISHRAE Student Members
21. Star Rating and Energy Labeling Program organized with Emerson Climate Technology, Pune

### **Professional membership:**

- Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE)
- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
- Tribology Society of India- Life Member (TSI)
- Indian Society of Technical Education- Life Member (ISTE)

### Achievements:

- Patent:-Smart Food Delivery Box- Design no:373731-001
- Student Activity Chair –ASHRAE Pune Chapter for year 2013-15
- President- Kolhapur Sangli Sub Chapter for Society year 2015-16
- Attended CRC for RAL-ASHRAE Pune Chapter at DOHA-Qatar in year 2013-14
- Attended CRC for RAL- ASHRAE Pune Chapter at MADRID- Spain year 2014-15

### Languages known:

- English, Hindi and Marathi (Read, Write and Speak)

### Personal Information:

**Dr. Shaikh Sardar Mansoor**

Date of Birth: 05-06-1976

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*I declare that the information given above is correct to the best of my knowledge and belief.*

Place- Rukadi

Date- 15.07.2025



(Dr. Sardar M. Shaikh)