



**AISSMS**  
**COLLEGE OF ENGINEERING**

ज्ञानम् सकलजनहिताय  
Accredited by NAAC with "A+" Grade



## Department of Mechanical Engineering

### Faculty Profile

#### Dr C S Choudhari

PhD (Mechanical Engineering)

Associate Professor

✉ [cschoudhari@aissmscoe.com](mailto:cschoudhari@aissmscoe.com)  
[chandrakishorchoudhari@gmail.com](mailto:chandrakishorchoudhari@gmail.com)

☎ (020) 26058587; Extn: 1803

🔗 <https://scholar.google.com/citations?hl=en&user=MUz9tR4AAAAJ>



#### Research Areas / Areas of Interest

Thermal Engineering, Energy Conservation, Heat Transfer, Refrigeration

#### Personal Details

**Date of Birth :** 06 / 05 / 1973

**Domicile:** Maharashtra

**Gender :** Male

**Blood Group:** B+ve

**Contact Details:** A103, AVENIR, S.No.8/6, Near Wadgaon BK, Off Sinhgad Road,  
Shreekrushnanagar, Pune – 411046

## Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Mechanical Engineering	SPPU, Pune	Awarded	March 2019
2	M.E.	Mechanical (Heat Power)	Pune	I <sup>st</sup>	May 2005
3	B.E.	Mechanical Engineering	Dr B A M U Aurangabad	I <sup>st</sup>	May 1994

## Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	26	00
2	Research	--	--
3	Industry	--	--
4.	Others	--	--
<b>Total</b>		<b>26</b>	<b>--</b>

## Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Refrigeration and Air conditioning	UG	TE (Mechanical)	12
2	Heat transfer	UG	TE (Mechanical)	12
3	Energy Audit and Management	PG	FY ME (Mechanical)	08
4	Turbomachinery	UG	TE ( Mechanical)	02
5	Fluid mechanics	UG	SE (Mechanical)	03
6	Basic Mechanical Engineering	UG	FE (Mechanical)	05

## Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
<b>Journals</b>	02	24	00	11	06
<b>Conferences</b>	02	05	00	00	00

## Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
1	Development of Artificial Neural Network to predict performance of Spark Ignition Engine fuelled with waste pomegranate ethanol blends	D.Y. Dhande, C.S. Choudhari, D.P. Gaikwad, Kiran B. Dahe	2022	<a href="https://doi.org/10.1016/j.inpa.2022.05.001">https://doi.org/10.1016/j.inpa.2022.05.001</a>	0895-7177	Information Processing in Agriculture (Elsevier)
2	Evaluation of Emission Characteristics and Performance of Pomegranate Ethanol Blended S. I. Engine using Artificial Neural Network and Rule Learner Classifier	D. Y. Dhande, D. P. Gaikwad, C. S. Choudhari	03 May 2022	J. Inst. Eng. India Ser. A	<b>Electronic ISSN</b> 2250-2157 <b>Print ISSN</b> 2250-2149	J. Inst. Eng. India Ser. A <a href="https://doi.org/10.1007/s40030-022-00639-z">https://doi.org/10.1007/s40030-022-00639-z</a> Springer
3	Smart Technologies to mitigate and manage the pandemic: Today and tomorrow	C S Choudhari, D Y Dhande	2021	SAMRIDDHI Vo. 13, Issue 2, 2021 <a href="https://doi.org/10.18090/samridhi.v13i02.4">https://doi.org/10.18090/samridhi.v13i02.4</a>	2229-7111	SAMRIDDHI: A journal of Physical sciences, Engineering and Technology
4	Prediction of spark ignition engine performance with bioethanol-gasoline mixes using a multilayer perception model	Dinesh Y. Dhande, Chandrakishore S. Choudhari, Dwarkoba P. Gaikwad,	2022	Vol 40, issue 2, 2022, <a href="https://doi.org/10.1080/109164">https://doi.org/10.1080/109164</a>	Print (ISSN) 1091-6466 Online (ISSN)	Petroleum Science and technology, Taylor & Francis

		Nazaruddin Sinaga & Kiran B. Dahe		66.2022.2025832	1532-2459	
5	Experimental investigation of forming parameters for square cup deep drawing process	C S choudhari, S S khasbage	2021	Material Today: proceedings, <a href="https://doi.org/10.1016/j.matpr.2020.10.543">https://doi.org/10.1016/j.matpr.2020.10.543</a>	ISSN: 214-7853	Elsevier
6	Experimental investigation of forming parameters for deep drawn square part	Priyanks yerolkar, C S Choudhari	December 2020	International journal of Automobile Engineering Research and development, Volume 10, issue-2	ISSN (Online) : 2278-9413, ISSN (Print): 2277-4785	Trans Stellar
7	Design and development of solar powered Stirling Engine for Electricity Generation	Mayur Patil, C S Choudhari	December 2020	International journal of Automobile Engineering Research and development,	ISSN (Online) : 2278-9413, ISSN (Print): 2277-4785, Volume 10, issue-2	Trans Stellar
8	Experimental study of hydrocarbon R290 in water cooler refrigeration system	C. S. Choudhari and S. N. Sapali	2020	Journal of Thermal Engineering, Vol 6, No. 1, pp 43-49, <a href="https://doi.org/10.18186/thermal.671137">10.18186/thermal.671137</a>	2148-7847	Yildiz Technical University, Turkey
9	Testing of environment friendly refrigerant R290 for water cooler application	C. S. Choudhari and S. N. Sapali	2018	International Journal of Engineering Transactions A: Basics Vol. 31, No. 1, 139 – 145, 10.5829/ije.2018.31.01a.21	1025-2495	Materials and Energy Research Center

10	Performance investigation of natural refrigerant R290 as a substitute to R22 in refrigeration systems	C. S. Choudhari and S. N. Sapali	2017	Energy Procedia, 109 (2017) 346 - 352, <a href="https://doi.org/10.1016/j.egypro.2017.03.084">doi.org/10.1016/j.egypro.2017.03.084</a>	1876 – 610	Elsevier
11	Experimental performance analysis of refrigerant R290 for water cooler application	C. S. Choudhari and S. N. Sapali	2017	International Review of Mechanical Engineering (IREME), 11(6): 419-425, 2017, <a href="https://doi.org/10.15866/ireme.v11i6.12843">10.15866/ireme.v11i6.12843</a>	1970 – 8734	Praiseworthy Prize Publications, Italy.
12	Experimental testing of a tracked power tiller for ploughing activity	Amol Khokle and C S Choudhari	2017	International Journal of Trend in Research and Development, volume 4 (4), 2017	2394 – 9333	IJTRD
13	Strength analysis of adhesively bonded AA6082-T6 Al alloy lap joint	Sunil Patil and C S Choudhari	2016	International Journal of Scientific Research in Science, Engineering and Technology, volume 2, issue 4, 2016.	p ISSN: 2395-1990, e ISSN: 2394-4099 UGC Journal No : 47147	University of Victoria, Victoria, British Columbia, Canada
14	Design of chassis dynamometer for light motor vehicle service stations	Suraj Kothale and C S Choudhari	2016	International Research of Engineering and Technology, volume 03, issue 4, April 2016.	ISSN: 2395-0072, e ISSN: 2395-0056	Fast Track Publications, Trichy, Tamilnadu, India.
15	A review of strength analysis of adhesively bonded single lap joint	Sunil Patil and C S Choudhari	2016	International Research of Engineering and Technology, volume 03,	p ISSN: 2395-0072, e ISSN: 2395-0056	Fast Track Publications, Trichy, Tamilnadu, India.

				issue 6, June 2016		
16	Evaluation of refrigerant R290 as a replacement to R22	Amey Shrivastava and C S Choudhari	2016	International Journal of Innovative Research in Science and Engineering, volume 02, issue 3, march 2016	2454-9665, P 2454-0663	International Research Publication
17	Design, optimization & performance analysis of condenser for HVAC automobile system for R-290	Parikshit Ladke and C S Choudhari	2016	International Journal of Current Engineering and Technology, special issue 5, 2016	p-ISSN: 2347-5161, E-ISSN: 2277-4106	International Press Corporation
18	Architectural conceptualisation methodology of electronic control unit casing	Sohan Sontakke and C. S. Choudhari	2015	International Journal of Mechanical Civil and Control Engineering, volume 1, issue 3, 2015	2321-5747	IRD India
19	Design & concept of single cylinder test engine modular balancing system	Anshul Bedi and C. S. Choudhari	2015	Journal of Basic and Applied Engineering Research, Volume 2, Number 6, pp 471 -473	Print ISSN: 2350-0077; Online ISSN: 2350-0255	Krishi Sanskriti Publications, New Delhi
20	Design for assembly approach for electronic control unit assembly analysis	Sohan Sontakke and C. S. Choudhari	2015	International Journal of mechanical Engineering and Robotics (IJMER), volume – 3, issue – 3	2321-5747	Ird India
21	Study of performance of algae oil in diesel engine	Ganesh Nagne and C. S. Choudhari	2015	International Engineering research Journal (IERJ),	2395 - 1621	IERJ

				Special issue 2 Page 4803 – 4808		
22	Emission characteristics of diesel engine fueled with Algae biodiesel blends	Nagne Ganesh and C S Choudhari	2015	International Research Journal of Engineering & Technology (IRJET) volume 02	p: 2395 -0072, e – 2395 – 0056	Fast Track Publications, Trichy, Tamilnadu, India.
23	A review on variable compression diesel engine with turmeric leaf oil- based Biodiesel	Ankit Bawaskar and C S Choudhari	2015	International Journal of Engineering Research and General science, volume 3, Issue 2, part 2	2091 – 2730	P & R EC
24	Design principles & optimization of exhaust reactive muffler	Milind Swami and C S Choudhari	2015	International engineering Research Journal (IERJ), Vol 1 issue 5, 335-340, 2015	2395 – 1621	IERJ
25	Design and development of hot air engine	Sourabh Hole, C S Choudhari	2022	International Journal of advance research in science, communication and technology, Vol. 2, Issue 5, May 22 doi: 10.48175/IJAR SCT-4125	ISSN: 2581-9429	IJAR SCT

### Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1	Energy performance	C. S. Choudhari	23 <sup>rd</sup> February 2018	National conference on “Research	--	G. H. Raisoni College of Engineering

	of R290 water cooler	and S. N. Sapali		and development in Mechanical, Engineering		and Management, Wagholi, Pune
2	Experimental performance analysis of refrigerant R290 for water cooler application	C. S. Choudhari and S. N. Sapali	29 <sup>th</sup> and 30 <sup>th</sup> June 2017	International Conference on Mechanical, Electronics System and Computer Engineering	--	MES COE Pune
3	Performance Investigation of natural refrigerant R290 as a substitute to R22 in refrigeration systems	C. S. Choudhari and S. N. Sapali	10 <sup>th</sup> -12 <sup>th</sup> Nov. 2016	RAAR 2016	--	C.V. Raman college of engineering Bhubaneshwar
4	Systematic approach for the design of a vapour compression refrigeration system	C. S. Choudhari and S. N. Sapali	9 <sup>th</sup> October 2015	National conference on "Recent Trends in Energy Engineering"	--	PVPIT Budhgaon
5	Performance analysis of vapour compression refrigeration system with refrigerant R22, R290 and R161	C. S. Choudhari and S. N. Sapali	2013	Annual Technical Paper Meet-2013	--	Institution of Engineers, Pune Local center
6	Evaluation of a refrigerant HFC 161 as a replacement to R22	C. S. Choudhari and S. N. Sapali	2013	International conference on Advances in Mechanical Engineering, 29 <sup>th</sup> to 31 <sup>st</sup> May 2013	--	College of Engineering, Pune
7	Energetic and	C. S. Choudhari,	2014	International Conference	ISBN 978-81-	Yadavrao Tasgonkar



	exergetic performance analysis of vapour compression refrigeration using refrigerant R22 and R161	and S. N. Sapali		on “Emerging Trends in Technology and Its Applications” (ICETTA-2014), 7 <sup>th</sup> and 8 <sup>th</sup> March-2014	923777-7-3	College of Engineering and Management, Karjat Dist. Raigad
8	Performance analysis of a vapour Compression refrigeration system with refrigerants R22, R134a and R290	C S Choudhari, Shobhit Nareliya, Sanket Kale	2013	National Conference on Frontiers in Mechancial Engineering (FIME – 2013) August 29-31 2013	--	Maulana Azad National Institute of Technology, Bhopal – 462 051 www.manit.ac.in
9	Vortex tube for spot cooling” presented at	C S Choudhari	2011	National conference “Recents trend in mechanical Engineering”, 28 <sup>th</sup> and 29 <sup>th</sup> August 2010	--	Data Meghe College of Engineering, Navi Mumbai
10	Experimental investigation of forming parameters for square cup deep drawing process	C S choudhari, S S khasbage	November 5-6, 2020	International Conference on Advances in Materials Processing & Manufacturing Applications (iCADMA 2020)	--	Sponsored by SPARC, MHRD & TEQIP-III, NIT Uttarakhand (Online)
11	Exergy analysis of waste incineration plant used in marine vessels	Jitendra Singh Pal, C S Choudhari, S N Sapali, T R Anil	1 – 4 december 2021	11th International conference on Sustainable Waste Management and Circular Economy &	--	International Society of Waste Management, Air and Water

				IPLA Global Forum 2021		
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#### PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	12	24

#### Professional Memberships

Professional Body	Level ( National/ International)	Type (Fellow/Life/Annual)	Membership No.
Indian Society of Technical Education	National	Life membership	LM5783
Society of Automotive Engineers	National	Annual	7190510057
Solar society of india	National	Life membership	LM/2570/2021

#### Details of Workshop / STTP / FDP / Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
1	Four Day Online training Program on “Geometric Dimensioning and Tolerancing”	National	Four Day 23 Feb to 26 Feb 2021	National	AISSMS COE, Pune
2	Heat transfer	National	Two day	National	SPPU and AISSMS COE, Pune
3	Achieving make in India through manufacturing advancement	National	Two day	National	AISSMS COE, Pune

4	Mechanical PG Conference – 2018 (Thermal)		Two day	National	AISSMS COE, Pune and University
5	Webinar on National education Policy - 2020	Webinar (FDP)	31 March 2021	National	AISSMS COE Pune
6	Webinar on Quality Sustenance in Higher education Institutions	Webinar (FDP)	10 May 2019	National	AISSMS COE Pune
7	Online FDP on “Promoting quality culture in Technical Institutions”	FDP	One Week, 25/05/20 to 29/05/20	National	UGC and AISSMS COE Pune

#### Details of Workshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	National Level Faculty Development Program on “INDUSTRY 4.0 & SMART MANUFACTURING”	FDP	31st May to 4th June 2022	Padm. Dr. V B Kolte College of Engineering, Malkapur, Dist. Buldana (M.S.)	ISTE
2	Online "FDP on Guidance, Counselling and Mentoring"	FDP	20/09/2021 to 24/09/2021	Dr. Hari Singh Gour Vishwavidyalaya (A Central University) Sagar, MP.	ATAL AICTE
3	"Achieving Leadership Excellence for Teachers of Higher Educational Institutions"	FDP	27/09/2021 to 01/10/2021	Sri Ramakrishna Mission Vidyalaya College of Education (Autonomous).	ATAL AICTE
4	Online ATAL FDP on “Electric vehicles”	FDP	05/10/2020 to 09/10/2020	AISSMS COE Pune	AISSMS COE Pune

5	Online ATAL FDP on “Alternative Fuels”	FDP	08/02/2021 to 12/02/2021	AISSMS COE Pune	AISSMS COE Pune
6	TEQIP 3 sponsored 5 day Online FDP on Recent Advances in Health 5.0 inline with NEP 2020	FDP	22 March to 26 March 2021	Samarth Educational Trust Arvind Gavali COE Satara	Samarth Educational Trust Arvind Gavali COE Satara
7	Online one week FDP on NAAC Accreditation process	FDP	15 April to 22 April 2021	PES’s Modern College of Arts , Science and Commerce	PES’s Modern College of Arts , Science and Commerce
8	Online Faculty Development Program on “OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE”	FDP	One Week, 11-15 May 2020	National	AICTE, New Delhi.
9	Online FDP on “Promoting quality culture in Technical Institutions”	FDP	One Week, 25/05/20 to 29/05/20	National	AISSMS COE Pune
10	National Level one week online FDP on “Advanced Teaching Tools, Techniques and Methodologies For Outcome Based Education	FDP	One Week, 01/06/20 to 05/06/20	National	AISSMS COE, Pune and ISTE
11	National level One week FDP (Spoken tutorial Project) on Python 3.4.3 Language, IIT Bombay	FDP	11th May to 15th May 2020	National	IIT Mumbai
12	FOUR Days ONLINE COURSE on Examination Reforms	FDP	29th April to 2nd May 2020	National	AICTE
13	National level One week FDP (Spoken tutorial Project) on OPEN FOAM Language, IIT Bombay	FDP	11th May to 16th may 2020	National	

14	National level One week FDP (Spoken tutorial Project) on Python 3.4.3 Language, IIT Bombay	FDP	28th April to 4th May 2020		IIT Mumbai
15	<b>One week</b> STTP on “Efficient Energy Conversion in Harmony with Environment”	AICTE	One week, October 29 to November 03, 2018	National	IIT Varanasi
16	<b>One week</b> STTP on “Design and development of Air Conditioning systems”	AICTE	One week, 1 to 5 <sup>th</sup> may 2018	National	COEP
17	<b>One week</b> AICTE- Refresher Course on Refrigeration and Air conditioning	Refresher course	One week, 26 – 30 June 2017.	National	COEP
18	<b>One week</b> STTP on Energy conservation in air conditioning	STTP	One week, 5 <sup>th</sup> to 9 <sup>th</sup> December 2016	National	COEP
19	<b>One week</b> STTP on Advances in refrigeration and sustainable energy	STTP	One week, 28 <sup>th</sup> November to 2 <sup>nd</sup> December 2016	National	COEP
20	Energy conservation techniques for forging sector	Training	24, 25 Sept. 2013	State	BEE
21	Faculty development programme	workshop	Three day, 17,18,19 April 2013	State	AISSMS COE, Pune
22	<b>Two week</b> STTP on Heat Transfer	workshop	Two week course 29 <sup>th</sup> November to 10 <sup>th</sup> December 2011	State	ISTE & IIT, Mumbai
23	<b>Two week</b> STTP on Thermodynamics In Mechanical Engineering	workshop	Two week course 14 <sup>th</sup>	National	IIT, Mumbai

			to 24 <sup>th</sup> June 2011		
24	Recent trends in design, manufacturing and quality control in Indian industries	Seminar	Three day, 12,13 and 14 Feb 2012	National	SPPU
25	Advances in mathematical modeling and simulation in engineering	workshop	One day, 2008-09	State	AISSMS COE, Pune
26	Mission10X” ISTE workshop	workshop	One week 7 <sup>th</sup> July to 11 <sup>th</sup> July 2008	National	ISTE
27	Recent Trends in Design, Manufacturing & Quality Control in Indian Industries, a QIP programme	Seminar	Three day 12 to 14 February 2007	National	SPPU
28	PC Hardware Maintenance and Networking	STTP	Four week course from 29 <sup>th</sup> May to 23 <sup>rd</sup> June 2006	National	ISTE
29	Induction Training for Teachers	STTP	Two week course 7 <sup>th</sup> November to 18 <sup>th</sup> November 2005	National	ISTE
30	Modern Trends In Automobile Engineering and New Pollution Norms”	STTP	One week course 29 <sup>th</sup> March to 2 <sup>nd</sup> April 2004.	National	ISTE

### Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1	Coordinator, Internal Quality Assurance Cell
2	Coordinator, Industry Institute Interaction, Institute Level
3	Head, Mechanical Sandwich
4	Faculty advisor Institution of Engineers, Institute Level

### Awards Received

S. No.	Awards/ Recognition
1	Certified Energy Auditor by BEE

**Declaration:** I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

**Dr C S Choudhari**