

## Dr. Shruti Sudhakar Dandge

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### ❖ Academic Qualification

Sr. No.	Degree Held	University	Year of passing	Specialization
1	Ph. D	Jadhavpur University, Kolkata, India	2025	Mechanical Engg.
2	M-Tech	S.G.B. Amravati University	2009	Thermal Engg.
3	GATE	-	2007	Mechanical Engg.
4	B.E.	S. G.B. Amravati University	2006	Mechanical Engg.

### ❖ Thesis

Sr. No	Degree	Thesis Title
1	Ph. D	Applications of Data Mining Tools in Machining
2	M-Tech	Thermal and Mechanical Design of Shell and Tube Heat Exchangers with Fixed Tubesheets. (@ Larsen & Toubro-Chiyoda Limited, Powai, Mumbai)
3	B.E.	Modeling of Sand Casting Components and Tooling.

### ❖ Teaching Experience

Sr. no.	Post held	Organization	From	To
1	Lecturer	Government Polytechnic, Arvi	09/09/2024	Till date
2	Lecturer	Government Polytechnic, Murtizapur	07/08/2015	09/09/2024
3	Lecturer	Government Polytechnic, Amravati	11/02/2011	07/08/2015
4	Ass. Professor	P. R. Pote (Patil) College of Engineering and Management.	13/08/2009	10/02/2011

❖ Research Publication :  
*International Journals*

1. Shruti Sudhakar Dandge and Shankar Chakraborty. "A Data Mining Approach for Analysis of a Wire Electrical Discharge Machining Process." *Management and Production Engineering Review* 13 (2021).
2. Shruti Sudhakar Dandge and Shankar Chakraborty. "Decision tree-based parametric analysis of a CNC turning process." *Scientia Iranica* 28, no. 6 (2021): 3653-3674.
3. Dandge Shruti, and Shankar Chakraborty. "Selection of machining parameters in ultrasonic machining process using CART algorithm." In *Advanced Engineering Optimization Through Intelligent Techniques*, pp. 599-607. Springer, Singapore, 2020.
4. Chakraborty Shankar, Shruti Sudhakar Dandge, and Subham Agarwal. "Non-traditional machining processes selection and evaluation: A rough multi-attributive border approximation area comparison approach." *Computers & Industrial Engineering* 139 (2020): 106201.
5. Agarwal Subham, Shruti Sudhakar Dandge, and Shankar Chakraborty. "Development of association rules to study the parametric influences in non-traditional machining processes." *Sādhana* 44, no. 11 (2019): 1-17.
6. Agarwal Subham, Shruti Sudhakar Dandge, and Shankar Chakraborty. "Parametric analysis of a grinding process using the rough sets theory." *Facta Universitatis, Series: Mechanical Engineering* 18, no. 1 (2020): 091-106.
7. Agarwal Subham, Shruti Sudhakar Dandge, and Prof Shankar Chakraborty. "A support vector machine-based prediction model for electrochemical machining process." *Karbala International Journal of Modern Science* 6, no. 2 (2020): 8.
8. Ramani Juhi, Shruti Dandge, and Shankar Chakraborty "Machinability study of plain carbon steels using data mining technique." In *AIP Conference Proceedings*, vol. 2273, no. 1, p. 050005. AIP Publishing LLC, 2020.

*National Journal*

9. Chakraborty Shankar, Subham Agarwal, and Shruti Sudhakar Dandge. "Analysis of cotton fibre properties: a data mining approach." *Journal of the Institution of Engineers (India): Series E* 99, no. 2 (2018): 163-176.

*Conferences attended*

1. International Conference on Precision, Meso, Micro and Nano Engineering, 13-15 December 2024, NIT Calicut, India.
2. 2<sup>nd</sup> International conference on Mechanical, Materials, and Renewable Energy (ICMMRE-2019) at Sikkim Manipal Institute of Technology, Majitar, East Sikkim, India, December, 6-7, 2019.

3. International conference on Advanced Engineering Optimization Through Intelligent Techniques at Sardar Vallabhbhai National Institute of Technology, Surat, India, August,3-5, 2018.

❖ Patents

- 1 UK Design patent granted (<https://www.registered-design.service.gov.uk/find/6438830>)

❖ Academic activities: Resource Person

Session chair/ Judge/ Invited Guest at Conferences/ Seminars

Sr. No.	Name of Event	Date	Responsibility
1	Expert Lecture on Industrial boilers at Kambe Polytechnic	May 2016	Expert lecture delivered
2	Regional Level Technical Paper Presentation organized by Government Polytechnic, Murtizapur.	28 <sup>th</sup> & 29 <sup>th</sup> April, 2022	Judge at Regional Level Technical event

❖ Trainings attended

Sr. No	Title	ISTE/MSBT E/DTE/AICTE/YASHADA/NITTT R/OTHER	Date	Venue	Days/ Week
1	Leading through Technology	MSFDA	7 <sup>th</sup> July to 11 <sup>th</sup> July, 2025	MSFDA, Pune	One Week
2	Data mining	NPTEL	21 <sup>st</sup> Feb to 15 <sup>th</sup> April, 2022	-	Eight weeks
3	I.C. Engines and Gas turbines	NPTEL	24 <sup>th</sup> Jan to 15 <sup>th</sup> April, 2022	-	Twelve weeks
4	Industrial Training Programme-3D Printing & Additive Manufacturing	NIELIT Calicut.	23 <sup>rd</sup> Feb to 8 <sup>th</sup> March, 2022	NIELIT, Calicut.	10 Days
5	Refresher Training Programme	A Govt. of Maharashtra (DTE	21 <sup>st</sup> June to 25 <sup>th</sup> June, 2021	Yashwatrao Chavan Academy, Pune	One Week

		Mumbai )			
6	Advanced Optimization Techniques for Research Problem Solving	ISTE	4 <sup>th</sup> August to 8 <sup>th</sup> August, 2020	Mahatma Gandhi Institute of Technology	One Week
7	Effective Logistic for Sustainable Environment	ISTE	10 <sup>th</sup> August to 14 <sup>th</sup> August, 2020	Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab	One Week
8	Sustainable Environment- An Engineering Perspective	TEQIP-III	13 <sup>th</sup> July to 18 <sup>th</sup> July, 2020	Assam Engineering College Guwahati	One Week
9	Waste Management & its Impact on the Environment	ISTE	20 <sup>th</sup> July to 25 <sup>th</sup> July, 2020	G H Rasoni College of Engineering, Nagpur	One Week
10	Accreditation to Engineering & Professional Ethics	DTE	08 <sup>th</sup> July to 12 <sup>th</sup> July, 2020	Government College of Engineering, Nagpur	One Week
11	Research and Publication Ethics	ISTE	29 <sup>th</sup> June to 3 <sup>rd</sup> July, 2020	Prof. Ram Meghe Institute of Technology & Research, Badnera , Amravati	One Week
12	MATLAB for ALL	ISTE	04 <sup>th</sup> June to 8 <sup>th</sup> June 2020	SIR M Visvesvaraya Institute of Technology, Bangalore	One Week
13	Recent Advances in Modelling and Optimization Techniques	ISTE	1 <sup>st</sup> June to 5 <sup>th</sup> June 2020	Sharad Institute of Technology College of Engineering Yadav-Ichalkaranji	One Week
14	Effective Online Teaching Learning Methods: Challenges, Preparation and Use of ICT Tools	ISTE	18 <sup>th</sup> May to 23 <sup>rd</sup> May- 2020	Govindrao Wanjari College of Engineering & Technology, Nagpur	One Week
15	Data Analytics for Engineers	TEQIP-III	10 <sup>th</sup> December to 14 <sup>th</sup> December, 2018	Malviya National Institute of Technology, Jaipur	One Week

16	Research Methodology & its Application	ISTE	09 <sup>th</sup> Jan to 13 <sup>th</sup> Jan, 2017	Government Polytechnic, Amravati	One Week
17	Effective Water Resources Optimization and Environment Protection	ISTE TEQIP-II	17 <sup>th</sup> Oct to 21 <sup>st</sup> Oct, 2016	Govt. Engg. College Amravati	One Week
18	Industrial Automation	MSBTE	18 <sup>th</sup> Jan. to 22 <sup>nd</sup> Jan - 2016	Govt. Poly. Murtizapur	One Week
19	How to set good question paper	ISTE	05 <sup>th</sup> May to 06 <sup>th</sup> May 2015	Govt. Poly. Amravati	Two days
20	Advancement in Energy Conservation Environment Protection & Productivity Enhancement Techniques	ISTE TEQIP-II	28 <sup>th</sup> Sept. to 2 <sup>nd</sup> Oct. – 2015	Govt. Engg. College Amravati	One Week
21	Industrial Training	MSBTE	23 <sup>rd</sup> Jan. to 25 <sup>th</sup> Jan – 2012	M/S Mahindra & Mahindra, Nagpur	Three Days
22	Tool Design for Plastic Injection Moulding in Pro-Engg. wild fire 5.0 Software	DTE	25 <sup>th</sup> April to 20 <sup>th</sup> May – 2011	Govt. Poly. Amravati	Four Week
23	Foundation Training Programme	A Govt. of Maharashtra (DTE, YASHADA)	30 <sup>th</sup> Dec 2013 to 08 <sup>th</sup> Feb 2014 (Mumbai )	Yashwatrao Chavan Academy, Pune	Six week
24	New Trends for Teachers in Digital Age	ISTE	04 <sup>th</sup> Feb to 08 <sup>th</sup> Feb - 2013	Govt. Poly. Amravati	One Week
25	Induction Training Programme Phase-II	NITTTR, Bhopal	10 <sup>th</sup> June to 21 <sup>st</sup> June- 2013	Dr. P.D. Poly. Amravati	Two week
26	Induction Training programme Phase-I	NITTTR, Bhopal	27 <sup>th</sup> June to 8 <sup>th</sup> July - 2011	Govt. Poly. Amravati	Two week

❖ Membership of professional bodies

- Member of Institution of Engineers (India)
- Member of Indian Society for Technical Education

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