

## Dr. Susheel Ramchandra Dhale

**Assistant Professor (Selection Grade)**

Department of Mechanical Engineering

Dr. Babasaheb Ambedkar Technological University, Lonere – 402103

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### Education:

**Ph.D. (2021)** Mechanical Engineering with the specialization in Wire EDM of superalloys, from Walchand Institute of Technology, Solapur, affiliated to Punyashlok Ahilyadevi Holkar Solapur University, Solapur.

**M.E(2010)** Design Engineering, from Walchand Institute of Technology, Solapur, affiliated to Solapur University, Solapur.

**B.E(2000)** Mechanical Engineering, from Jawaharlal Nehru Engineering College, Aurangabad, affiliated to Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

**Class 6<sup>th</sup> to 12<sup>th</sup>** from Central Government funded Jawahar Navodaya Vidyalaya, under Ministry of Education, Govt of India, C.B.S.E. Delhi, Board.

### Teaching and Research Experience:

Duration	Name and Address of Organization	Post Held
15-01-2003 to 14/01/2009	T.P.C.T.'s College of Engineering, Osmanabad 413 501	Lecturer
15-01-2009 to 28/02/2011	T.P.C.T.'s College of Engineering, Osmanabad 413 501	Senior Lecturer
01-03-2011 to 05-07-2013	T.P.C.T.'s College of Engineering, Osmanabad 413501	Assistant Professor
09/07/2013 to 11/12/2015	Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad- 402 103	Assistant Professor Senior Scale
11/12/2015 Till Date in Service	Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad- 402 103, Pay Scale 79800-211500, AGP 8000 Pay Comm. 7 <sup>th</sup> (12)	Assistant Professor Selection Grade

Total UGC approved Teaching Experience: **19 years, 08 months and 20 days**

### Awards:

- First In College (1996), 12<sup>th</sup> Science, CBSE Board, at awarded by Jawahar Navodaya Vidyalaya Tuljapur and Nagar Parishad Tulajpur.
- First In College (2009), M.E. Design Engg, CR at Walchand Institute of Technology, Solapur.
- Best Poster Presentation (2015), at An International Conference on Precision, Meso, Micro and Nano Engineering, COPEN-9:2015, awarded by IIT-Bombay, Powai, Mumbai

### Research Interest:

- Advanced non -traditional machining
- Thermally enhanced superalloys machining
- CNC Wire Electrical Discharge Machining

**Selected Publications (No of citations = 7, h-index = 1 , i-10 index =0)**

### Referred Journals – 02

1. **S.R.Dhale, B.B Deshmukh**, Novel Approach To Improve WEDM Performance on Inconel718, By Using Small Diameter Zinc Coated Wire, “ International Journal of Mechanical and Production Engineering Research and Development” Vol.9, Issue-2, April 2019.
2. **S.R.Dhale, B.B Deshmukh**, WEDM with different diameter wire electrodes on Inconel 718: Improved dimensional deviation, wire consumption and surface quality, “ Elsevier -Materials Today: Proceedings” 2214-7853/Copyright Ó 2023 Elsevier Ltd, <https://doi.org/10.1016/j.matpr.2022.09.088>

### Book Chapter Published: 01

1. S.R. Dhale, B.B Deshmukh, Investigations into the Effect of Varying Electrode Diameter on Cutting Rate and Kerf Width in WEDM of Varying Thickness Inconel718, published in Book “Advances in Unconventional Machining and Composites” Springer, Singapore, 571-582, 2020. [http://doi.org/10.1007/978-981-32-9471-4\\_47](http://doi.org/10.1007/978-981-32-9471-4_47)

### International Conferences /Symposium - 07

1. S.R. Dhale, B.B Deshmukh, WEDM with different diameter wire electrodes on Inconel 718: Improved dimensional deviation, wire consumption and surface quality, 2<sup>nd</sup> International Conference & Exposition on Advances in Mechanical Engineering (ICAME-2022), College of Engineering, Pune, during June 23-25, 2022.
2. S.R. Dhale, B.B Deshmukh, Investigations into the effect of varying electrode diameter on cutting rate and kerf width in WEDM of varying thickness Inconel718, 7<sup>th</sup> International & 28<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR) Conference, 13-15 December 2018, Anna University, Chennai, India, 344, 11373.
3. S.R. Dhale, M.L. Kulkarni, Experimental Studies on Effect of Wire Related Parameters in Wire Electrical Discharge Machining, International Conference on Ideas, Impact, and Innovation in Mechanical Engineering (ICIIME2017), 1-2, June 2017, Smt. Kashibai Navale College of Engineering, Pune.
4. S.R. Dhale, M.L. Kulkarni, Analysis of Influence of Electrode Coatings in Wire Electro Discharge Machining of Inconel-718, 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR) Conference, 16-18 December 2016, College of Engineering, Pune
5. S.R. Dhale, M.L. Kulkarni, Statistical Modeling of WEDM considering wire related parameters, An International Conference on Precision, Meso, Micro and Nano Engineering, COPEN-9:2015, December 10-12, 2015, IIT-Bombay, Powai, Mumbai.

6. S.R. Dhale, M.L. Kulkarni, Experimental Investigations of wire related parameters In WEDM, An International Conference on Precision, Meso, Micro and Nano Engineering, COPEN-8:2013, December 13-15,2013, at National Institute of Technology, Calicut, Kerala India.
7. S.R. Dhale, M.L. Kulkarni, An expert System for WEDM, Sardar Patel International Conference, SPICON-2012, May 31<sup>st</sup> -02<sup>nd</sup> June 2012, at Sardar Patel College of Engineering, Andheri (West), Mumbai.

#### **National Conferences – 04**

1. S.R. Dhale, M.L. Kulkarni, Performance Investigations of WEDM with Inconel-718, National Conference on Recent Trends in Mechanical Engineering (NCRTME 2016), Walchand College of Engineering, Sangli, 4-5 July 2016.
1. Sujit R. Gavhane, Ghanasham A. Kirgat, Dhale S.R, Some Studies on Optimization of Gating System, National Conference on Recent Advances in Mechanical Engineering (NCRAIME-2011), January 28-29,2011, at TPCT 's College of Engineering, Osmanabad, in association with Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
2. S. R. Nirantar, S. R. Dhale, K.S. Mangrulkar, Stress Analysis and Optimization of Front Axle Beam, National Conference on Recent Advances in Mechanical Engineering (NCRAIME-2011), January 28-29,2011, at TPCT 's College of Engineering, Osmanabad, in association with Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
3. S.R. Dhale, S.B. Naik, B. Gandhi, Modeling and Analysis of Helical Gears, National Conference on Recent Trends In Mechanical Engineering, ( NCRTME- 2010), August 28-29, 2010, at Datta Meghe College of Engineering , Airoli, Navi Mumbai, , in association with ISHRAE, Mumbai Chapter.
4. S.R. Dhale, S.B. Naik, Parametric Modeling of Helical Gears, 2<sup>nd</sup> National Conference on Trendz in Mechanical Engineering (TIME-2010), March 5-7,2010, At A.G. Awate, College of Engineering, Hadapsar, Pune.

#### **Conference organizing committee member:**

1. Organizing team for 1<sup>st</sup> International Conference on Materials, Manufacturing and Design Engineering (ICMMD16), December 20-21, 2016, organised by Department of Mechanical Engineering, at Dr. Babasaheb Ambedkar Technological University, Lonere -402103
2. Organising team for the Recent Advances in Mechanical Engineering (NCRAIME-2011), January 28-29<sup>th</sup> 2011, organised by TPCT 's College of Engineering, Osmanabad - 413501, in association with Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
3. Organizing team for 32<sup>nd</sup> National Conference on Fluid Mechanics & Fluid Power, December 2005, organized by TPCT 's College of Engineering, Osmanabad -413501, in association with National Society for Fluid Mechanics and Fluid Power.

#### **Courses Taught**

##### **At UG level**

1. Engineering Economics and Management,
2. Basic Mechanical Engineering.
3. Tool Engineering
4. Casting and Welding Technology.
5. Production Process – I
6. Heat Transfer
7. Energy Conversion -I
8. Machine Design – II,
9. Solid Mechanics.
10. Hydraulic Engineering -I,
11. Theory of Mechanisms and Machines -II,
12. Energy and Environment Engineering,
13. Mechanical Measurements and Metrology, Metrology and Quality Control,
14. Material Handling Systems,
15. Quantitative Techniques in Project Management

#### **At PG level**

1. Metrology and Computer Aided Inspection

#### **Short Term Courses/Seminar/Workshop Attended**

1. ISTE Approved One Week Online National Level Faculty Development Programme on Recent Trends in HVAC & R, online mode at S.A.P.D. Jain Pathashala's Walchand Institute of Technology, Solapur. (In collaboration with ISHRAE Pune Chapter), 26<sup>th</sup> to 30<sup>th</sup> July 2021.
2. One Week Short Term Training Programme on "Role of Renewable Energy Sources in Indian Energy Security" online mode by Delhi Technological University, Bawana Road, Delhi, July 05-10, 2021
3. Continuing Education & Quality Improvement Programmes (CE & QIP) on Interdisciplinary Aspects in Modeling of Manufacturing Processes, at Indian Institute of Technology, Bombay, for Dr. Babasaheb Ambedkar Technological University, Lonere, 21-29 November 2020.
4. Short Term Training Program on 'Recent Trends in Welding and Joining Technology', at Dr. Babasaheb Ambedkar Technological University, Lonere, Under TEQIP-III, 26-30 November 2018.
5. One day, NPTEL Workshop, at Gharda Institute of Technology, Lavel, by IIT Madras, 14 July 2018.
6. A Two Days Interdisciplinary Workshop on Artificial Intelligence, Research and Applications, at K.K. Wagh Institute of Engineering Education & Research Nashik, 6<sup>th</sup> & 7<sup>th</sup> January 11, 2018
7. A Two-Day Training Workshop on Migration to Free and Open-Source Software's, at Dr. Babasaheb Ambedkar Technological University, Lonere, Under TEQIP-II, 16-17 September 2016.
8. One week CEP course on, Analysis of Research Problems through Design of Experiment, at Indian Institute of Technology, Bombay, 13-17 August 2016.
9. One week Workshop on Outcome Based Education, at Dr. Babasaheb Ambedkar Technological University, Lonere, Under TEQIP-II, 23-28 June 2016.
10. Two Days Hands on Workshop on Virtual Instrumentation Using Lab View and Data Acquisition System, at Modern Education Society's, College of Engineering, Pune. Sponsored by BCUD, SPPU, Pune, 21<sup>st</sup> & 22<sup>nd</sup> January 2016.

11. Two Days National Level Workshop on Vibration and Noise Measurement Using FFT Analyzer, at Gokhale Education Society's R.H. Sapat, College of Engineering, Management Studies and Research, Nasik, Sponsored by BCUD, SPPU, Pune., 30<sup>th</sup> & 31<sup>st</sup> January 2016.
12. One Week Faculty Development Program (FDP) on Recent Trends in Energy Research, (Under TEQIP-II), at Dr. Babasaheb Ambedkar Technological University, Lonere, Under TEQIP, 7-11 December 2015.
13. An ISTE sponsored short term training program on "Design of Experiments and Optimization Techniques" (DOE-OT-15), at Sanjivani Rural Education Society's, College of Engineering, Kopergaon, 1-5<sup>th</sup> June 2015.
14. Two-day faculty development program under TEQIP-II, under Pedagogy, at Dr. Babasaheb Ambedkar Technological University, Lonere, 29-30, Dec 2014.
15. Inter-disciplinary aspects of Modeling of Manufacturing Processes CE & QIP, at Indian Institute of Technology, Bombay, 02-06, Oct, 2013.
16. Two-week ISTE Workshop for Heat Transfer, ICT (MHRD) Conducted by IIT Bombay, at Kolhapur Institute of Technology's College of Engineering, Kolhapur, 29 Nov to Dec 10, 2011.
17. Finite Element Methods Workshop under TEQIP, at Rajarambapu Institute of Technology, Rajaramnagar, Sakhrle, 10-14 Feb 2009.
18. Gear Tribology Workshop under CE&QIP, Indian Institute of Technology, Bombay, 01-05, April, 2008.

### Professional Skills

CAD Tools:	SolidWorks, CATIA V5, AutoCAD
CAE Solvers:	ANSYS V.10
Programming Languages:	Visual Basic 6.0

### Member of Professional Bodies:

Life Member – Indian Society for Technical Education (ISTE, New Delhi), Life Member, No. LM41987, From 2004

### Administrative Experience

1. **Working as Associate Controller of Examinations (ACoE), at Dr. Babasaheb Ambedkar Technological University, Lonere. Since September 3, 2022.**
2. Conducted II, IV and VI end semester examinations for Hackathon students, M.Tech end semesters and supplementary examinations.
3. Assistant Rector, of First Year Boys Hostel, Sahyagiri of Dr. B.A.T. University, Lonere, for **03** Years, 07 Months
4. Presiding officer (PRO), during General Election 2019 to the House of People of Legislative Assembly of Maharashtra State at Uran-5, Navi Mumbai, and Raigad ZP and Mangaon PS Elections -2017, at 45/35 Panose.
5. Worked as Chief Superintendent of Exams of Dr Babasaheb Ambedkar Marathwada University, Aurangabad for Engineering and Law Examinations at TPCT 's College of Engineering, Osmanabad -413501, centre.

## Academic Experience

- Committee member of Malpractice cases of Dr. Babasaheb Ambedkar Technology University, Lonere, end semester examinations.
- Worked as Term Work chairman for three years. and Time Table Chairman for three years.
- Worked as Marshall in convocation ceremony.
- Arranged Industrial visit to Accurate Pune, Cipla, Uran Gas Power plant for undergraduate students of B.Tech Mechanical.
- Arranged Alumni meet of 1999, 2000 pass out batch, Celebrated science day.
- Admission of SY, TY and final year students
- Coordinated Remedial and mid semester examination of first year to final year B. Tech, Mechanical engineering students
- Worked as Head of Data entry and Scrutiny committee ARC/FC 3033, for Admissions AY 2017-18.
- Departmental coordinator of departmental Report, NBA & NAAC SAR, criteria data compilation member.
- Purchased through e- tendering, through CPC, MQC lab equipment's worth Rs. 551400.
- Worked as Academic Coordinator for Department of Mechanical engineering at TPCT 's College of Engineering, Osmanabad.
- Worked as departmental coordinator for Industrial Training of 2<sup>nd</sup> 4<sup>th</sup> and 6<sup>th</sup> semester students
- Worked in various committee, secretary during Dr. Babasaheb Ambedkar Statue Inauguration, Jayanti celebration and Ministers visit.
- Working as department faculty coordinator for Alumni interactions- Alumni database, MESA activities, Exam results, coordination of Exam related matter, marks uploading, Remedial coaching, Students registration with data sheet, Notice Board up keeping in charge of MQC Lab.

## Personal Details :

<b>Name</b>	: Dr. Dhale Susheel Ramchandra
<b>Father's Name</b>	: Dhale RamchandraLaxman
<b>Date of Birth</b>	: 26-04-1979
<b>Gender</b>	: Male
<b>Marital Status</b>	: Married
<b>Cast</b>	: S.C.Mahar
<b>No of Dependents</b>	: Two
<b>Present Address</b>	: Godavari -6, Vidyavihar, Dr. B.A.T.University, Lonere -402103
<b>Permanent Address</b>	: House No. 694/2, Vishwas Nagar, Hudco, A.P. &Tq. Tuljapur – 413601, Dist: Osmanabad.
<b>Contact Number</b>	: 9850856359 , 9730655574(mobile)
<b>Email</b>	: srdhale@dbatu.ac.in, <a href="mailto:dhalesusheel@gmail.com">dhalesusheel@gmail.com</a> ,
<b>Languages Known</b>	: English, Hindi, and Marathi.

**Dr. Dhale Susheel Ramchandra**