

Dr. Sudhir Wamanrao Burande

Ph. D. (Mech. Engg.) | M. Tech (MSD) | B.E. (Mech. Engg.)

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EDUCATIONAL QUALIFICATION

| Qualification | Month & Year of Passing | School / College | % Marks / CGPA | Class Obtained |
|-------------------------------------|-------------------------|---|----------------|----------------|
| Ph. D. (Mechanical Engineering) | 04-08-2023 | RTMNU Nagpur University, Nagpur, (Maharashtra) | -- | -- |
| Post-Graduation M.Tech (MSD) | June - 2011 | Indian Institute of Technology Kharagpur, (West Bengal) | 7.6 | First class |
| Graduation (Mechanical Engineering) | June 1998 | BDCOE, Sevagram (Maharashtra) | 64.29 | First class |

ACADEMIC PROJECTS

- ◆ Ph. D. – Experimental and FE Approach for Analysis of Composite Material Leaf Spring
- ◆ Post Graduation – Effect of 2-D Surface Roughness Parameters on the Flash Temperature in Solid Body Rubbing
- ◆ Under Graduation – Flexible Speed Breakers

TEACHING EXPERIENCE – 21 Years

Employer: Government of Maharashtra, Directorate of Technical Education, Mumbai

Assistant Professor in Mechanical Engineering, Government College of Engineering Chandrapur (Maharashtra)

Duration: 31-10-2003 to 11-06-2025

Assistant Professor in Mechanical Engineering, Government College of Engineering Kolhapur (Maharashtra)

Duration: 12-06-2025 to 11-07-2025

Assistant Professor in Mechanical Engineering, Government College of Engineering Yavatmal (Maharashtra)

Duration: 12-07-2025 to Date

SUBJECTS TAUGHT

- ◆ Kinematics of Machine
- ◆ Stress Analysis
- ◆ Computer Aided Design
- ◆ Finite Element Method
- ◆ Design of Machine Elements

TOPICS OF RESEARCH / INTEREST / GUIDANCE

- ◆ Composite Material
- ◆ Design of Machine Elements
- ◆ Finite Element Analysis

Approved Research Supervisor under Gondwana University, Gadchiroli

Number of Research Scholars undergoing PhD: 02

REVIEWER

- ◆ Materials Today Proceedings, Elsevier publication (WoS & Scopus Indexed)
- ◆ Materials Performance and Characterization, ASTM International (ESCI, Scopus Indexed)

International Journals

1. Sudhir W. Burande and Ganesh R. Chavhan, "Experimental investigation into the effect of 2D surface roughness parameters on hot Spot temperature in solid rubbing," IORD Journal of Science & Technology, 2016, Vol. 3, No. 1, pp. 107-109.
2. Ganesh R. Chavhan, Sudhir W. Burande, Lalit P. Dhole, "Analysis of shock absorber using different material of spring," International Journal of Advanced Engineering Technology, 2014, Vol. 5, No. 4, pp. 19-21.
3. Sudhir W. Burande, Ganesh R. Chavhan, Lalit P. Dhole, "Analysis of leaf springs in light automotive vehicles by experimental and finite element approach," International Journal of Advanced Engineering Research and Studies, 2014, Vol. 4, No. 1, pp. 15-16.
4. Sudhir W. Burande, Deepak V. Bhope, "Dynamic analysis of FRP leaf spring – Critical Review," Global Journal of Engineering Science and Researches, December 2018, Vol. 5(12), 304-307.
5. Sudhir W. Burande, Deepak V. Bhope, "Evaluation and validation of mechanical properties of steel strip embedded unidirectional E-glass fibre reinforced hybrid laminate," Elsevier Materials Today Proceedings, Volume 42, Part 2, 2021, 693-699.
6. Sudhir W. Burande, Deepak V. Bhope, "Review on material selection, tailoring of material properties and ageing of composites with special reference to applicability in automotive suspension," Elsevier Materials Today Proceedings, Volume 46, Part 1, 2021, Pages 520-527.
7. Sudhir W. Burande, Deepak V. Bhope, "Viscoelastic performance analysis of EN42J steel strip embedded E-Glass fibre hybrid laminate," Taylor and Francis, Advances in Materials and Processing Technologies, (2024) 1-13.
8. Pramod H Sahare, Lalit P Dhole, SW Burande, "A review paper on investigation of mechanical and wear properties of polymer composites subjected to environmental degradation," Elsevier, Materials Today: Proceedings-2024.
9. S.C. Jamunkar, L.P. Dhole, S.W. Burande, "Investigation for the Improvement of Mechanical Properties of Polyamide 66/Polypropylene Composite," International Journal of Research and Analytical Reviews (IJRAR), 2024/2.
10. Ganesh R Chavhan, Pawan V Chilbule, Sudhir W Burande, Masnaji R Nukulwar, "Manufacturing and Analysis of Mono-leaf Spring using Composite Material," Global Journal of Engineering Science and Researches, 2018/8.
11. Shital Jamunkar, Lalit Dhole, Ganesh Chavhan, Sudhir Burande, "Recent advances in ultrasonic welding of dissimilar materials: A Review," AIP Conference Proceedings, 2024/7/30.

CONFERENCE PAPERS

International Conference

1. Ganesh R. Chavhan and Sudhir W. Burande, "Analysis of Different Shock Absorber Using FFT Analyzer," International Conference in Recent Trends & Research in Engineering & Science at VBKCOE, Malkapur, 28th-29th February, 2016.
2. Sudhir W. Burande and Ganesh R. Chavhan, "Experimental investigation into the effect of 2D surface roughness parameters on hot Spot temperature in solid rubbing," International Conference in Recent Trends & Research in Engineering & Science at VBKCOE, Malkapur, 28th-29th February, 2016.
3. Sudhir W. Burande, Deepak V. Bhoje (2020), "Evaluation and validation of mechanical properties of steel strip embedded unidirectional E-glass fibre reinforced hybrid laminate," Second International Conference on Manufacturing, Material Science & Engineering (ICMMSE 2020), CME Institute of Technology, Hyderabad, India.
4. Sudhir W. Burande, Deepak V. Bhoje (2020), "Review on material selection, tailoring of material properties and ageing of composites with special reference to applicability in automotive suspension," 2020 Second International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2020), Velalar College of Engineering and Technology, Erode, India.
5. Sudhir W. Burande, Deepak V. Bhoje (2022), "Viscoelastic performance analysis of EN42J steel strip embedded E-Glass fibre hybrid laminate," International Conference on Recent Advances in Materials, Manufacturing and Machine Learning – RAMMML 2022, Yashwantrao Chavan College of Engineering Nagpur, Maharashtra, India (Received Best Paper Award).

ISTE/AICTE/DST/TEQIP SPONSORED SHORT TERM TRAINING PROGRAMME ATTENDED

1. Two weeks Industrial Training on CAD & Additive Manufacturing organized by CIIT, Government College of Engineering, Chandrapur, during 20th September 2021 – 01st October 2021.
2. One week Online AICTE Sponsored FDP on Emerging Technologies in Product Design & Development organized by Department of Mechanical Engineering, Government College of Engineering, Chandrapur, during 14th June 2021 – 18th June 2021.
3. One week Online AICTE Sponsored FDP on Environmental Challenges: Process and Pulp Industry organized by Department of Mechanical Engineering, Government College of Engineering, Chandrapur, during 16th March 2021 – 22nd March 2021.
4. One week TEQIP Sponsored STTP on "3D Printing and Additives Manufacturing: The 3rd Industrial Revaluation" organized by Government College of Engineering, Chandrapur during 26th - 30th September, 2016.
5. One week TEQIP Sponsored training on "Management Capacity Enhancement" organized by Government College of Engineering, Chandrapur during 18th - 22nd January, 2016.
6. Two's day TEQIP Sponsored workshop on Latex and Clementine organized by Government College of Engineering, Chandrapur.
7. One week TEQIP Sponsored training on "Effective Personnel Management" organized by Government College of Engineering, Chandrapur during 30th December 2013 - 03rd January, 2014.
8. Two week AICTE-sponsored FDP on "Advances in Manufacturing Technology-Hard & Soft" organized by IPE, Hyderabad during 04th - 16th February, 2013.
9. One week TEQIP Sponsored STTP on "Management Training on Emotional Intelligence" organized by Government College of Engineering, Chandrapur during 28th - 01st February, 2013.
10. One week TEQIP Sponsored STTP on "Finite Element Analysis and its Engineering Applications (FEA-2013)" organized by Government College of Engineering, Chandrapur during 14th - 18th January, 2013.
11. One week TEQIP Sponsored STTP on "Objected Oriented Analysis & Design (OOAD-2012)" organized by Government College of Engineering, Chandrapur during 24th - 28th December, 2012.
12. One week TEQIP Sponsored STTP on "Industrial Automation" organized by Government College of Engineering, Chandrapur during 03rd - 07th December, 2012.
13. Two week AICTE Sponsored STTP On "Wavelet Transform and Its Application" organized by SIRTS Bhopal during 04th - 16th June, 2012.

RESEARCH PUBLICATIONS SUMMARY

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|-------------------------------------|--------------------------------|--|-----------------------------------|
| 11 International Journals | 00 National Journals | 05 International Conferences | 00 National Conferences |
| Total Publications: 16 | | | |

PERSONAL DETAILS

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|------------------------|---|
| Name | Dr. Sudhir Wamanrao Burande |
| Date of Birth | 05/07/1976 |
| Gender | Male |
| Category | OBC |
| Blood Group | B+ |
| Marital Status | Married |
| Languages Known | English, Hindi and Marathi |
| UID No. | 6486 0234 9910 |
| PAN No. | AJBPB0636P |
| Mailing Address | 10, Samruddhi Nagar, Sevagram Road Wardha, Tal. Wardha, Dist. Wardha. 442001 |
| Mobile | 9822231418; 9284040940 |
| Email | wbsudhir@gmail.com, sudhirwb@rediffmail.com |

I declare that the above information is true and correct to the best of my knowledge.

Date: 04-08-2025

Place: Yavatmal

Dr. Sudhir Wamanrao Burande