

Resume

Name of
Teaching Staff
Designation

Dr. Ashok Pandarinath Tadamalle
Professor

Department

Mechanical Engineering

Date of Joining
the Institution

15.01.2025

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Web of Science
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ResearchGate
Link:

<https://www.researchgate.net/profile/Ashok-Tadamalle/publications?sorting=recentlyAdded&editMode=1>



**Qualifications
with Class/
Grade**

Sr. No.	Degree	College/University	Year of Passing	Course	Marks(%)
1	Ph D	JNT University, Hyderabad	2017	Mechanical Engineering	
2	ME (Mech)	SGGSCOE&T Nanded, SRTMU Nanded	2005	Mechanical-CAD/CAM	67.00
3	BE (Mech)	Malnad College of Engineering, Mysuru University	1991	Mechanical	68.89
4	HSC Science	B V Bhoomareddy College, Bidar/ Bangalore Board	1987	Science	53.83
5	SSC	Govt High School Vadgaon(B), Bengaluru Board	1984	--	60.60

**Total
Approved
Experience in
Years**

Sr. No.	Position & Institute	From - To	Total Y (M)	University Approval Reference Number
1	Professor, SVKM's Dwarkadas J. Sanghvi College of Engineering	15th Jan 2025- Till Date	01(09)	--
2	Professor, Sinhgad College of Engineering, Pune	31 Dec 2021 - 14 th Jan 2025	04(00)	CAS PG-Ref. No.:BUTR/ Engg/ 97/612 (2016-retirement)
3	Associate Professor, Sinhgad College of Engineering, Pune	7 th July 2011-31 Dec 2021	09(06)	UG-Ref. No:CCO/704 dated 23.3.2018 PG-Ref. No.:BUTR/ Engg/ 97/612 (2016-retirement)

4	Assistant Professor, Sinhgad College of Engineering, Pune	24 th July, 2008 - 6 th July, 2011	03(00)	UG- Ref. No.:CCO/253 (2009-16) UG- Ref. No.:CCO/688 (2008-09) PG-Ref. No.:BUTR/Engg/ 1801-104 (2011-2016)
5	Selection Grade Lecturer, Sinhgad College of Engineering, Pune	24 th July, 2007 - 23 rd July, 2008	01(00)	UG- Ref. No.:CCO/551 (2007)
6	Lecturer, Sinhgad College of Engineering, Pune	6 th July, 2007 - 23 rd July, 2007	01(00)	UG- Ref. No.:CCO/551 (2007)
7	Lecturer, Genba Sopanrao Moze COE, Pune	1 st Aug, 2005 - 5 th July, 2006	00(11)	UG- Ref. No.:CCO/2621 (2005)
8	Lecturer, shyamlal college of Engg, Loni, Udgir	5 th May, 1999 - 15 th May, 2005	06(01)	UG- Ref.No.:Acad/App /96-97/1142/23 (15/5/1999)
9	Lecturer, Maharastra College of Engg, Nilanga, Latur	18 th Sep,1993 - 15 th May,1999	05(05)	UG- Ref.No.:Acad/App /96-97/1142/23 (25/2/1997)
10	Lecturer, Rural college of Engg, Bhalki, Bidar	23 rd Nov,1992 - 31 st May, 1993	00(07)	adhoc

**Papers
Published in
Journal**

1. **Tadamalle, A.P.**, Kadam, P.G., Ingle, P. et al. Brs-Hmm: Bobcat Optimized Resnet50V2-Swint Framework for Analyzing the Powder Behavior of Aa7075/Al2O3/Graphene in Friction Stir Additive Manufacturing. J. of Materials Engineering and Performance (2026). <https://doi.org/10.1007/s11665-026-14785-z>
2. Vishal Maske , **Ashok Tadamalle**, Dhananjay Khankal, Gaurav Dave, Mathematical Modelling for Performance Evaluation of Wind Turbine-Powered Battery Management Systems for Electric Vehicles, Eng. Res. Express, 8 085512, DOI 10.1088/2631-8695/ae590e
3. Kamble, D.A., Jadhav, T.A., Sur, A. **Ashok Tadamalle.**, Advances in extraction, characterization, and surface functionalization of natural fibers for composite material applications. Discov Mater, 6, 169 (2026). <https://doi.org/10.1007/s43939-026-00598-3>
4. Kamble, D.A., Jadhav, T.A., Sur, A., **Ashok Tadamalle.**, Extraction and characterization of new lignocellulosic fibre from Butea Monosperma (Palash) root for potential use as reinforcement in composites. Discov Mater 6, 188 (2026). <https://doi.org/10.1007/s43939-026-00668-6>
5. **Tadamalle A P**, Reddy Y P, Biradar A K, et al. Mathematical model for estimation of strength and weld bead geometry of dissimilar metal laser welds, International Journal on Interactive Design and Manufacturing (IJIDeM), 1-14 (2024) <https://doi.org/10.1007/s12008-024-02102-8>
6. **Tadamalle A P**, Katikar R S, Gandhare B S, Biradar A K, Kadam P G. Selection, optimization and analysis of core and face material for wind turbine composite blade, International Journal on Interactive Design and Manufacturing (IJIDeM), 1-11 (2024). DOI:10.1007/s12008-024-02024-5
7. Deshpande R S, **Tadamalle A P**, et al. Engine Performance and Emission Evaluation of Gasoline-Ethanol Fuel Blend in SI Engines Under Various Conditions of Load and Speed, PGKSST Journal of Mines, Metals and Fuels, 72 (8), 803-813 (2024).
8. Deshpande R S, **Tadamalle A P**, et al. Performance and Emission Evaluation of Gasoline-Methanol Fuel Blend at Different Conditions in SI Engine, PGKSST Journal of Mines, Metals and Fuels, 72 (7), 687-697 (2024).

9. **Tadamalle A P**, Katikar R S, Gandhare B S, Biradar A K. Lean Layout Implementation at Fabrication Plant, *Journal of Harbin Engineering University*, 45 (5), 140-149 (2024).
10. Deshpande R S, **Tadamalle A P**, Thipse S S. Experimental Analysis of Gasoline-Ethanol-Methanol Blend at Various Conditions in Engine, *Journal of Mines, Metals & Fuels*, 71 (11), 1-7 (2023).
11. Biradar A K, Virkunwar A K, **Tadamalle A P**, Katikar R S, Kadam P G, Mathematical model for dissimilar metals spot welds using RSM, *Journal of Emerging Technologies and Innovative research*, 6(4), 540-551(2019)
12. Katikar R S, **Tadamalle A P**, et al., Work place efficiency improvement by adopting 5S practices for SMEs, *Journal of Emerging Technologies and Innovative research*, 6(3), 217-226(2019)
13. **Tadamalle A P**, Biradar A K, et al, Design and Analysis of Feed water storage Tank, *Journal of Emerging Technologies and Innovative research*, 6(1), 664-683 (2019)
14. Kale A, **Tadamalle A P**. Analysis and Optimization of Lower Control Arm, *Evolutions in Mechanical Engineering*, 1 (1), 1-6 (2017).
15. Yende S V, Burande D H, **Tadamalle A P**. Topology Optimization of Lower Control Arm for LMV, *International Journal of Engineering Research and Technology*, 8 (7), 829-834 (2021).
16. Musale J M, **Tadamalle A P**. Review of Real-Time Temperature Measurement for Process Monitoring of Laser Conduction Welding, *Engineering Science and Technology: An Int. Journal*, 2(5), 946-950.
17. **Tadamalle A P**, Londhe M G, Hande A A. Analysis of Anti-Blast Valve Cup to Sustain High-Pressure Blast Waves, *Journal of China University of Mining and Technology*, 135-141 (2024).
18. V., S., Vedpathak, A., P., **Tadamalle**, D., H., Burande, "Evaluation of Deep Drawing Force in Sheet Metal Forming," *International Journal of Engineering Research and Technology*, 8(7), 854-859.
19. **Tadamalle, A. P.**, Reddy, Y. P., Ramjee, E., Reddy, V. K., "Evalvation of Distortion and Residual Stresses in Laser Weld Dissimilar Metal Weld Joints," *Lasers in manufacturing and materials processing*, 6, 374-386, ISSN 0268-3768. (2019)
20. **Tadamalle, A. P.**, Reddy, Y. P., Ramjee, E., Reddy, V. K., "Characterization of Fully and Partially Penetrated Nd: YAG Laser Weld Dissimilar Joints," *Journal of Mechanical Science and Technology*, Springer, 32(2), 1-7. (2018)
21. **Tadamalle, A. P.**, Reddy, Y. P., "Fatigue Life Prediction of Dissimilar Metal Laser Weld Joints," *Journal of The Institution of Engineers (India): Series C*, 101, 1027-1033 (2020).
22. Dadas, K. N., **Tadamalle, A. P.**, et al., "Design and Analysis of Multi-Port Fuel Injection CNG Engine Manifold System," *International Research Journal of Engineering and Technology (IRJET)*, 6(7), 1428-1433.
23. **Tadamalle, A. P.**, Reddy, Y. P., Ramjee, E., Reddy, V. K., "Fuzzy Genetic Optimiziation of Dissimilar Metal Weld Joints," *ELK Asia Pacific Journal*, 1-9. (2017)
24. **Tadamalle, A. P.**, Reddy, Y. P., Ramjee, E., Reddy, V. K., "Characterization of Stainless Steel and Galvanized Iron 0.5 mm Thick Laser Weld Joints," *International Journal of Advanced Manufacturing Technology*, Springer, 90(1), 383–395. ISSN 0268-3768. DOI: 10.1007/s00170-016-9364-z. (2016)
25. **Tadamalle, A. P.**, Reddy, Y. P., Kapatkar, V. N., "Analysis of Nd:YAG Laser Weld Thin Sheets of 304L and Galvanized Iron," *Journal of Mineral and Material Science (JMMS)*, 2(1), 1-5.

26. **Tadamalle, A. P.**, Reddy, Y. P., Ramjee, E., Reddy, K. V. K., "Influence of Welding Speed on Melting Efficiency of Nd: YAG Laser Welding," *International Journal of Advances in Production Engineering and Management*, 9(3), 128-138. ISSN 1854-6250. (2014)
27. **Tadamalle, A. P.**, Reddy, Y. P., Ramjee, E., Reddy, V. K., "Evaluation of Nd: YAG Laser Welding Efficiencies for 304L Stainless Steel," *Procedia Material Science*, Elsevier, 6, 1731–1739. DOI: 10.1016/j.mspro.2014.07.160. (2014)
28. **Tadamalle, A. P.**, Reddy, Y. P., Ramjee, E., (2013) "Influence of Laser Welding Process Parameters on Weld Pool Geometry and Duty Cycle," *Int.l Journal of Advances in Production Engineering and Management*, 8(1), 52-60. ISSN 1854-6250. DOI: 10.14743/apem2013.1.153.
29. R. V. Patil, J. U. Marathe, **Tadamalle A. P.**, Y. P. Reddy, "Optimization of Tractor Trolley Chassis by Using Orthogonal Array Method," *Materials Today: Proceedings*, 4(8), 2214-7853 (2017).
30. R. V. Patil, P. R. Lande, **Tadamalle A. P.**, Y. P. Reddy, "Determination of Impact Absorbing Capacity and Toughness of Aluminum Honeycomb Sandwich Panel in Bumper," *Materials Today: Proceedings*, 4(8), 8816-8826 (2017).
31. **Tadamalle A. P.**, Reddy Y. P., Kapatkar V. N., "Analysis of Nd:YAG Laser Weld Thin Sheets of 304L and Galvanized Iron," *Journal of Mineral and Material Science (JMMS)*, 2(1), 1-5 (2021).
32. Ghule H. V., **Tadamalle A. P.**, "Fatigue Behavior of Dissimilar Metal Laser Spot Lap Weld Joints," *International Journal of Engineering Research & Technology*, 8(6), 1-6 (2019).
33. Haram J. H., **Tadamalle A. P.**, "Design of a Test Rig for Experimental Evaluation of Tyre Wear in Dry and Wet Test," *International Journal of Engineering Research & Technology*, 8(9), 1-6 (2019).
34. Ghule H. V., **Tadamalle A. P.**, Jadhav T. A., "Fatigue Behavior of Dissimilar Metal Laser Spot Lap Weld Joints," *International Journal of Recent Technology and Engineering*, 1(2), 1-6 (2019).
35. Akash Salokhe, **Tadamalle A. P.**, "Design, Development, and Testing of CFRC Tie Rod," *International Research Journal of Engineering and Technology (IRJET)*, 6(8) (2019).
36. Dadas K. N., **Tadamalle A. P.**, Tipse S. S., Kavthekar K. P., "Performance Analysis of Heavy Duty SPFI CNG Engine Manifold System," *International Journal of Engineering Research and Technology*, 8(6), 1238-1243 (2019).
37. Kambale D. A., **Tadamalle A. P.**, "Analysis of Low Loader Chassis, Its Prototyping, Testing, and Design Modification for Weight Reduction," *Journal of Emerging Technologies and Innovative Research*, 6(2), 337-341 (2019).
38. Biradar A. K., Virkunwar K., **Tadamalle A. P.**, et al., "Mathematical Model for Dissimilar Metal Spot Welds Using RSM," (2019).
39. Tonpe M. H., Burande D. H., **Tadamalle A. P.**, "Aerodynamic Drag Force Analysis for Light Commercial Vehicle," *International Journal of Engineering and Advanced Technology*, 1(2), 1-6 (2018).
40. Padmashali B., **Tadamalle A. P.**, "Prediction of Residual Stresses in Laser Welding Process Using Different Heat Source Models," *International Engineering Research Journal*, 1-7 (2017).
41. Konappanavar S. S., **Tadamalle A. P.**, "Strength Optimization and Thermo-Mechanical Modeling of Dissimilar Weld Joint," *International Engineering Research Journal*, 3(3), 1145-1149 (2016).

42. Salunke P. M., **Tadamalle A. P.**, "Switched Reluctance Motor Application to Conveyor Belt System," International Journal in Advances in Mechanical Sciences and Technology, 3(1), 207-216 (2016).
43. Afzal M. K., **Tadamalle A. P.**, "Design and Development of a Regenerative Shock Absorber," International Journal of Innovations in Engineering Research and Technology, 3(2), 1-7 (2016).
44. Sherke R. D., **Tadamalle A. P.**, "Transverse Link FEA Analysis under Static and Dynamic Loading Conditions," International Journal of Current Engineering and Technology, Special Issue, 1-6 (2016).
45. Parasnis N., **Tadamalle A. P.**, "Automatic Solar Tracking System," International Journal of Innovations in Engineering Research and Technology, 1(1), 1-10 (2016).
46. Vispute S. V., **Tadamalle A. P.**, Bijwe V. B., "NVH Characterization of Composite Material for Commercial Vehicle Frame Components," International Engineering Research Journal (IERJ), 1(2), 601-616 (2016).
47. Vispute S., **Tadamalle A. P.**, "NVH Characterization of Composite Material for Commercial Vehicle Frame Components," International Journal of Engineering and Management Research, 5(5), 22-27 (2016).
48. Purkar G. V., **Tadamalle A. P.**, "Design and Development of Spherical Robot Used for Measurement of Humidity in Agricultural Field," International Engineering Research Journal (IERJ), Special Issue, 2(2), 75-79 (2016).
49. Afzal K. M., **Tadamalle A. P.**, "Structural and Performance Characteristics of a Vibrational Energy Harvester," International Journal in Advances in Mechanical Sciences and Technology, 3(1), 52-58 (2016).
50. Kulkarni R. B., Reddy Y. P., **Tadamalle A. P.**, "Finite Element Analysis of Nozzle Forming Process in a Circular Header," International Journal of Advanced Mechanical Engineering, 4(1), 17-25 (2014). ISSN 2250-3234.
51. Parit A., **Tadamalle A. P.**, Ramaswamy, "Failure Investigation of Secondary Super Heater Using CFD/CAE Techniques," International Journal of Engineering Research & Technology, 2(10), (2013). ISSN (Online): 2278-0181.
52. Bhujbal V. D., **Tadamalle A. P.**, "Optimization of Laser Welding Process by Fuzzy Logic Technique," International Journal of Engineering Science and Innovative Technology (IJESIT), 2(4), 211-227 (July 2013). ISSN: 2319-5967.
53. Joshi G. S., **Tadamalle A. P.**, "A Stereo Correspondence Cost Function for FPGA," International Journal of Emerging Technology and Advanced Engineering, 3(2), 455-459 (Feb 2013). ISSN 2250-2459.
54. Joshi M. L., **Tadamalle A. P.**, "Vibration Control of Flexible Link Manipulator by Using Various Control Schemes," Interdisciplinary Research and Development in Management & Social Sciences, 1-5 (2012).
55. Joshi G. S., **Tadamalle A. P.**, "A Stereo Correspondence Cost Function for FPGA," International Journal of Emerging Technology and Advanced Engineering, 3 (2012).
56. Bhujbal V. D., **Tadamalle A. P.**, "The Use of Fuzzy Logic Technique to Optimize Gas Metal Arc Welding Process," International Research Symposium on Management, Technology, and Engineering Studies & Research, 1-4 (2012).
57. Patil R., **Tadamalle A. P.**, Awasare P. J., "Real-Time Diagnosis of Depth of Penetration in Laser Beam Welding Process: Review," P@gopalax - International Journal of Technology and Engineering System (IJTES), 2(2), 129-132 (Jan-March 2011).

58. Advant A. V., **Tadamalle A. P.**, "Abstronics System with Automatic Control," International Journal of Electrical and Electronics Engineering Research, 1(1), 28-40 (2011).
59. Musale J., **Tadamalle A. P.**, "Review of Real-Time Temperature Measurement for Process Monitoring of Laser Conduction Welding," International Journal of ESTIJ, 1-5 (2011)

**Papers
Presented in
Conferences**

1. **Tadamalle A. P.**, Thigale P. P., Ingle P. N., et al. (2024). Design and Fabrication of Leaf Spring Fatigue Testing Machine. FTCME 2024 (Journal of Advancement in Machines), 16-21.
2. **Tadamalle A. P.**, Suryawanshi Y., Gurule A., et al. (2024). Design and Development of a PLC-Based Component Cleaning Station. Journal of Recent Trends in Mechanics, 9-14.
3. **Tadamalle A. P.**, Reddy Y. P., Ramjee E., Reddy V. K. (2014). Characterization and Optimization of Nd: YAG Laser Weld Joints of Dissimilar Metals. 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), Dec 12-14, IIT Guwahati, India, pp. 80:1-7.
4. **Tadamalle A. P.**, Reddy Y. P., Ramjee E., Reddy V. K. (2014). Estimation of Weld Pool Geometry and Cooling Rate in Laser Welding. 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), Dec 12-14, IIT Guwahati, India, 211:1-7.
5. **Tadamalle A. P.**, Reddy Y. P., Ramjee E., Reddy V. K. (2014). Determination of the Optimum Parameters for Laser Welding of 0.5 mm Thick Dissimilar Metals. International Symposium on Aspects of Mechanical Engineering and Technology for Industry (AMETI 2014), Itanagar, Arunachal Pradesh, Dec 7-8, pp. 299-305.
6. Parit A., **Tadamalle A. P.**, Vasantha Ramaswamy. (2014). Prediction of Temperature Distribution and Thermal Stress in Secondary Super Heater Tubes. 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), Dec 12-14, IIT Guwahati, India, pp. 1-6
7. Joshi G. S., **Tadamalle A. P.**, Reddy Y. P. (2014). Analysis, Modeling, and Optimization of Diode-Laser Welding Process Parameters for Dissimilar Metals. International Symposium on Aspects of Mechanical Engineering and Technology for Industry (AMETI 2014), Guwahati, Assam, Dec 6-8, pp. 315-320.
8. Munde D., **Tadamalle A. P.**, Kulkarni S. A. (2014). PLC-Based PID Liquid Level Controller. International Symposium on Aspects of Mechanical Engineering and Technology for Industry (AMETI 2014), Guwahati, Assam, Dec 6-8, pp. 320-326.
9. Parit A. N., **Tadamalle A. P.**, Ramaswamy V. (2014). Thermal Stress and Creep Analysis of Failed Tube of Secondary Super Heater. 5th International & 26th All India Manufacturing Technology, Design and Manufacturing Conference, IIT Guwahati, India.
10. **Tadamalle A. P.**, Reddy Y. P., Ramjee E. (2013). Optimization of Nd: YAG Laser Welding Process Parameters for Dissimilar Metals. 7th Asia Pacific IIW-International Congress (IIW 2013), July 7-8, Singapore, pp. 587-862.
11. **Tadamalle A. P.**, Rajesh Patil, P. J. Awasare. (2011). Estimation of Depth of Penetration in Laser Beam Welding Process. Proceedings of the International Conference on Sunrise Technologies (SSVPS-ICOST-2011), Jan 13-15, pp. 458-462.
12. **Tadamalle A. P.** (2010). Size Effects and Multiscale Modeling in Manufacturing. Proceedings of the 4th International Conference on Advances in Mechanical Engineering, SVNIT Surat, September, pp. 249-253.

13. **Tadamalle A. P.**, Gulgulia J. S. (2010). Micro Product Design and Development. Proceedings of the National Conference on ATME-10, PVPIT Budhgaon, pp. 52-56.
14. **Tadamalle A. P.**, Nandedkar V. M. (2001). Software for Selection of Benchmarked Formability Tests. Proceedings of the International Conference on Intelligent Flexible Autonomous Manufacturing Systems, CIT Coimbatore, May 14-15, pp. 251-257.
15. Nilay Chakraborty, **Tadamalle A. P.** (2001). Modeling and Simulation of Hemispherical Punch Stretching to Determine Forming Limit. Proceedings of the National Conference on Computer Integrated Design and Manufacturing, AIT Coimbatore, May 14-15, pp. 249-253.
16. **Tadamalle A. P.**, Nandedkar V. M. (1999). Total Quality Management Benchmarking. Proceedings of the International Conference on Operations Management for Global Economy Challenges and Prospects, IIT New Delhi, Dec 21-24, pp. 236-241.
17. Parit A. N., **Tadamalle A. P.**, Ramaswamy V. (2014). Thermal Stress and Creep Analysis of Failed Tube of Secondary Super Heater. 5th International & 26th All India Manufacturing Technology, Design and Manufacturing Conference, IIT Guwahati, India.
18. Dhamma deep Kamble , T A Jadhav, **Tadamalle A P**, Analysis of Chemical Composition of Untreated and Alkali-Treated Butea Monosperma Root Fibers for Composite Applications. International Conference on Smart Mechanical Systems for Sustainability (ICSMSS 2025), D. J. Sanghvi College of Engineering, International Conference, N/A, Completed (Dec 2025)
19. Vishal Maske , **Ashok Tadamalle**, Dhananjay Khankal, Gaurav Dave, Performance Comparison Study of Solar- and Wind-Powered Electric Vehicles. Global Conference on Computational Mathematics and Intelligent Engineering Applications (GCCMIEA 2025), Thammasat University, Scopus-Indexed Conference, N/A, Presented at International Conference (Thailand, Dec 2025)
20. Dhamma deep Kamble , T A Jadhav, **Tadamalle A P**, Artificial Intelligence and Machine Learning for Advancing Natural Fiber Polymer Composite Materials: A Review. 5th International Conference on Advances in Materials, Mechanics, Mechatronics and Manufacturing (IC4M-2025), Parul University, International Conference, N/A, Completed (Dec 2025)
21. Vishal Maske , **Ashok Tadamalle**, Dhananjay Khankal, Gaurav Dave, Effect of Electricity Generated through Solar and Wind Sources on EV Battery Charging Systems. International Conference on Smart Mechanical Systems for Sustainability (ICSMSS 2025), D. J. Sanghvi College of Engineering, International Conference, N/A, Presented at Conference (Dec 2025)
22. Swapnil Shinde, Dhananjay Khankal, **Tadamalle A P.**, Experimental and Analytical Investigation of Tyre–Concrete Interaction: Influence of Load, Speed and Slip-on Frictional Torque, Thermal Response and Tyre Pressure. International Conference on Smart Mechanical Systems for Sustainability (ICSMSS 2025), D. J. Sanghvi College of Engineering, International Conference, N/A, Presented at Conference (Dec 2025)
23. Swapnil Shinde, Dhananjay Khankal, **Tadamalle A P.**, Predictive Modelling of Tyre Response Using Experimental Data and Surface Response Methodology, International Conference on Smart Mechanical Systems for Sustainability (ICSMSS 2025), D. J. Sanghvi College of Engineering, International Conference, N/A, Presented at Conference (Dec 2025)

Training Programs / Seminars / Orientations / Refresher Courses / Workshops Attended

Sr No.	Duration	No. of Programs	Domain	Organized by
1	One week	6	CFD, CIM RP, CNC Technology	ISTE SCOE Pune NIT Ahmadabad PSG Coimbatore FTI, Bengaluru
2	Two and More weeks	10	Research Methodology, Micromachining Mission 10X ABACUS Design Practice	SVNIT Surat IIT Kharagpur AICTE and BARC, IIT Kanpur Wipro, IIT Mumbai
3	Attended 30+ programs of One and two Days			

Orientation Programs

SE /TE/ BE students: Every year

FDP/ Refresher Courses (Member)

2 weeks - AICTE Computational Fluid Dynamics (Member)
1 Week - AICTE –Surface modification (Member),
2 weeks – ISTE -Simulation software tools for researcher with impactful writing research publication – Coordinator
1 week – ISTE – Battery management systems for electric vehicles (Member)

Project Competitions

National Level – UG students- Coordinator - 2
Organizing Committee member for AVISHKAR-08 - 1

Training programs conducted (15)

Ansys -3, UG Nx – 3, Hypermesh- 2, Abacus -1, ProE- 4, Solidworks -2
(More than 50 hours)

Area of Specialization

Laser Welding, optimization, CAD/CAM, Residual stresses and Characterization

PhDs / Projects Guided

PhDs : 04 (Perusing)
Projects at Masters level : 24+
UG Level : 52+

Books Published / IPRs / Patents

Books (Editors for conference Proceedings on Springer)
Conference: ICSSMS 2025(Member)
Conference: FTCME 2024
Design Patent: Artificial Intelligence based Nerve activation device for healthcare treatment
Copyright: Revolutionizing energy storage unveiling the potential of plasma technology
Textbook: Computer Integrated Manufacturing

Grants fetched

Minor Research Grant (University of Mumbai)
3,00,000/-, BCUD, Savitribai Phule Pune University (SPPU), Pune
Title- Scaling down effect on residual stresses in residual stresses

Interaction with Professional Institutions

Guest Lectures:
 Guest `lectures

- Basavakalyan college of engineering, Basavakalyan
- Maharashtra college of Engineering, Nilanga, Dist Latur
- M S Bidave College of Engineering, Latur
- SIOM, As training facilitator-soft bridge Centre

Responsibilities:

- ✚ Worked as Institute Academic Committee Member
- ✚ NAAC Departmental data verification and report preparation and Institutional level documentation.
- ✚ Worked as Neon Trophy Unveiling coordinator
- ✚ Worked as NBA committee member for NBA
- ✚ Worked Admission committee member
- ✚ Chairman for Various theory and practical of SPPU theory examinations
- ✚ Coordinator and organizing committee for STTP programs.
- ✚ Website coordinator, organizing Committee member for AVISHKAR -08 Project competition
- ✚ Conducted training programs on software's for Faculty members, Industry personals, UG and PG students and generated revenue in association with external agencies and departmental faculty members
- ✚ CPOC office of Accreditation and compliance

Subjects
Taught

UG Level: Solid Mechanics, Numerical Methods, Mechatronics, Mechanical measurements and metrology, Design of machine elements, CAD/CAM and automation, Robotics, Finite element methods, Data Analytics, AIML for Robotics,

PG Level: Finite element methods, Flexible manufacturing systems, Optimization Techniques

Institute/
Department
Responsibility
handled:

- Purchase Committee Member
- Admission committee Member
- Member of Cultural activities
- Library Chairman

Pedagogy
Development

Video lectures
Innovative teaching methods
PPTs

Dr. Ashok Tadamalle