

RESUME

Name : DR. DHARMADHIKARI HANUMANT MADHUKARRAO
Designation: Professor in Mechanical Engineering & Head, Dept of Vocational Education, Maharashtra Institute of Technology, Chh Sambhajinagar- 431010 (MS)
Date of Birth: 01 June 1966
Resi. Address: 1, Bhardwaj Housing Society, MIDC Colony, Station MIDC, Chh Sambhajinagar - 431 005 (MS)
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Qualification: B.E. (Mech), M.E. (Production), Ph.D.(Mech) NITW



Academic Performance:

Degree	Year	University / Board	Percentage	Class
Ph.D. (Mechanical)	2014	National Institute of Technology, Warangal (TN)	Successfully completed in April 2014	
M.E. (Production)	1999	Dr. BAMU Aurangabad	63.87	First class
B.E. (Mechanical)	1989	(Then) M.U. Aurangabad	66.00	First class with Distinction
H.S.C.	1985	MS Aurangabad Board	75.83	First class with Distinction
S.S.C	1983	MS Aurangabad Board	85.71	First class with Distinction

Work Experience:

Name of Organization	Designation	From	To	Remarks
Bajaj Tempo Limited Akurdi, Pune-35 (MS)	Engineer, S-4	16-04-1990	17-04-1992	Resignation
G. S. Mandal's M. I. T. Aurangabad 431 005 (MS)	Lecturer	01-09-1992	31-05-2006	Regular
	Senior Lecturer	01-06-2006	31-12-2006	Promotion
	Assistant Professor	01-01-2007	31.12.2010	Regular
	Associate Professor	01-01-2011	31.03.2025	Regular
	Professor	01.04.2025	Till Today	Regular

Other Achievements

1. National Merit Scholarship (GOI) awardee for the post-SSC education up to graduation (1983-1989).
2. Passed English Language Senior Certification Examination (1982) Maharashtra Tilak Vidyapeeth, Pune.
3. Passed Elementary and Intermediate Grade Examination (1984) Art Committee, M.S. Mumbai.
4. "Yoga" Examination (1988) Kaivalyadham Vidyapeeth, Nashik.
5. Completed M.E. (Production) PT from Govt. Engineering College, Aurangabad (MS).
6. Dr. B.A.M.U. Approved P.G. Teacher BUTR/2002-03/4113/4 dt.27.6.2002
7. Completed Doctoral Research Programme (2014) at National Institute of Technology, Warangal (AP).

8. Passed MS-CIT Examination conducted by MSBTE & MKCL Mumbai in July 2015 with 85 percent.

Short Term Courses/Workshops/Conferences Attended:

1. MDP on “Inculcating UHV in Technical Education” 3-day Face to Face MDP at MIT from 15 Jan to 17 Jan 2024
2. FDP on NBA Accreditation in Engineering & Teaching & Learning in Engg (NATE) with 75%, Jan-Apr 2023
3. Workshop on “Exam Reforms” at MITA, Dec 23-24, 2022
4. Workshop on “Renewable Energy & Sustainable Development” at IIT (BHU), Varanasi (UP), Jan 18-22, 2016
5. Three day National Workshop on “Go Green Generation Fuels” at NIT, Warangal (AP), Dec 12-14, 2013.
6. One day workshop on Revised Syllabi of S.E.(M/P) of Dr. BAMU at DIEMS, Aurangabad on 09.4.2012.
7. QIP Workshop on “Diesel Engine Management” at I.I.T, Kanpur from March 18-22, 2009.
8. National Workshop on “Composite Materials during Nov 28-29, 2008 at N.I.T, Warangal (AP).
9. National Workshop on “Emerging Trends in Automobile Engg” at N.I.T, Warangal (AP) July3-5, 2008.
10. QIP STP on “Modeling and Simulation of Engineering Systems” at Govt. Engg, A'bad, Jan.9-15, 2006.
11. One day workshop on Symposium on water conservation at MIT Aurangabad on 20.3.2005.
12. One day seminar on Water quality, hygiene & sanitation at MIT Aurangabad on 27.2.2005.
13. National Conference on “Emerging Trends in Mechatronics” at MIT Aurangabad on July 23-24, 2004.
14. STTP of AICTE /ISTE on ‘Intelligent Machine” REC Warangal (AP) from 31.12.2001 to 12.01.2002.
15. One day workshop on Patent awareness at Dr. BAMU Aurangabad on 23.6.2000
16. QIP short term course on “Engineering Optimization” at IIT Mumbai from 05.06.2000 to 09.06.2000.

Workshop/Conference Organized:

1. Joint Secretary of Organizing Committee of 2nd iCMMD-2017 organized by DBATU & MIT Dec 11-12, 2017
2. Vice Chairman of 1-day FDP on “Simulation Modeling Techniques in Industrial Automation” in MIT 11th Feb 2017
3. Convener, Technomillennium-2008: A Technical Talk Series held during September 15-17, 2008
4. Member of Organizing Committee of Technomillennium-2006- A national Level Paper Presentation
5. Successfully arranged various educational tours/ visits of students to industries in Aurangabad, VRDE Ahmednagar, Tata Motors, BTL Pune, Thermal Power Stations Parli/ Bhusawal, Delhi (IMTEX-2001)

Work Experience:

- ✓ Head, Department of Vocational Education MIT(A), Since 5th Sept 2022 till today
- ✓ Additional Charge of Workshop Superintendent since 6th April 2023 till today
- ✓ Dean (Examination & Evaluation) MIT (E) from 8th July 2021 to 1st Nov 2022
- ✓ Vice Principal (Administration) at MIT (E) since 9th July 2016 to 7th July 2021
- ✓ Head, Department of Mechanical Engineering MIT (T), Since 01st Jan 2015 to 08th July 2016.
- ✓ Have been teaching various subjects of engineering at UG/PG level.
- ✓ Chairman, ME/M.Tech Admission Committee for 2014-15.
- ✓ Head, Department of Production Engineering (June 2011-July 2013).
- ✓ Rector, MIT Boys’ Hostel, MIT (E/T/P/N) Aurangabad (Oct 2010-Dec 2012).
- ✓ Chairman, Accommodation committee Central Youth Festival-2012 hosted by MIT Aurangabad.
- ✓ Chairman, Inquiry Committee in the students dispute/complaint (Nov 2012).

- ✓ Member Local Inspection Committee of Dr. BAMU for STBTCOE for 2012-13.
- ✓ Co-Chairman, Scrutiny Committee for the UGC interviews held in June 2011.
- ✓ Incharge, Dead Stock Verification committee of MIT Central Library (2011)
- ✓ Presiding Officer for Graduate Aptitude Test in Engineering (GATE), conducted by IITB, (10/2/2008)
- ✓ Polling Officer-1 for General Assembly Elections, Maharashtra States, 2009.
- ✓ Faculty Advisor Students' Council (Year 2006-07 and 2010-2011)
- ✓ Director for Dr. B.A. M. University, Central Assessment Scheme (CAS) for the Engg Examinations
- ✓ Nov/Dec 2006, May/June 2007 & Nov/Dec 2007 Examinations.
- ✓ Joint Director in CAS Engineering Examination May/June-2002 at Dr. B.A.M.U. Aurangabad.
- ✓ Workshop Superintendent of central workshop M.I.T. Aurangabad (01.05.2002 to 31.01.2004).
- ✓ Chief Superintendent at M.I.T. Exam Centre for Dr. B.A.M.U. Examination in May/June-1999.
- ✓ Officer-in charge at M.S.B.T.E. Diploma Examination, MIT Aurangabad Nov/Dec-1997.
- ✓ Administrative and supervisory work in Projects department at Bajaj Tempo Ltd, Pune (1990-92).

Subjects Taught:

Sr. No.	Class	Subjects
1	B.E. (Mech)	IC Engines, Operation Research, Tool Design
2	B.E. (Prod)	TQM, AMC, Industrial Engineering
3	T.E. (M/P)	Tool Design, Mechanical Measurements Casting and welding Tech, Robotics
4	S.E.(Mech/Prod)	M/C Drawing
5	F.E./F.Y (All)	EME/BME
6	M.E.(Mech)/M.Tech.	Optimization Techniques Advanced Thermodynamics, I.C.Engines
7	BVoc (FP)	Refrigeration, Entrepreneurship Development, Instrumentation & control
8	PhD	Course work (For ME Research scholars at BAMU- June/July 2021)

PG Students Guided M.Tech (Mech) Dissertation: 06

Research Scholars (PhD) Guided: Completed -01; Under Progress- 05

Student Name	Degree	Registration Date	Award of Degree	Branch/Title
Mr. Pramod R Wadake	PhD (Mechanical)	20022-24 Dated: 07/05/2019 (June2018)	Yes	Modeling and optimization of thermal performance of solar concentration

Membership of professional bodies:

1. Life Member of Indian Society of Technical Education, New Delhi – LM 30047/dtd:15.11.2000
2. Fellow of Institution of Engineers (India), Calcutta, F-119402-6 /dtd: 20-01-2015

Appreciations:

1. UG approved teacher in Dr.B.A.M. University, Aurangabad (1999).
2. PG approved teacher in Dr.B.A.M. University, Aurangabad (2002).
3. Letter of appreciation by The Director General, MIT Aurangabad (2006).
4. UGC approved Assistant Professor in Mechanical Engineering Dr.B.A.M. University, Aurangabad (2007).
5. Invited Jury/Judge for various Technical Symposiums/Paper presentations at various engineering colleges.
6. Appointed as an external Examiner for M.E.(Auto) at Shivaji University, Kolhapur (May 2013).
7. Appointed as an external Examiner for M.E.Mechanical (Design) at University of Pune, at PREC Loni (Oct.2013) and SIT Pune (2015).
8. Appointed as an external Examiner for M.Tech CADs/CAM at SGGs, SRTMU Nanded (2016).
9. Recognized as Research Guide in Mechanical Engineering at Dr.B.A.M.University, Aurangabad (2018).
- 10 .Speaker at PhD Mech Engg Course work for Research scholars at Dr. BAMU, Aurangabad (June 2021 Batch)

NPTEL Course:

Duration	Duration	Course Name	Performance	Grade
Jan-Apr 2023	12 Weeks	NBA Accreditation in Engineering & Teaching & Learning in Engg (NATE)	75.0 %	Elite

Publications:

1. GG Naik, HM Dharmadhikari, SA More, IE Sarris The Optimization of a Ternary Blend Using Grey Relation Analysis with the Taguchi Method for the Improved Performance and Reduction of Exhaust Emissions, Fire 2025, 8, 83 <https://doi.org/10.3390/fire8020083>
2. GG Naik and HM Dharmadhikari ZNO as nanoparticle blended with ternary blend of Cotton Seed, Neem Oil, and Orange Peel Oil Biodiesel for emission reduction of CI Engine, Research Square <https://doi.org/10.21203/rs.3.rs-5209943/v1>, 2024
3. P Wadate, H Dharmadhikari Thermal performance evaluation of solar paraboloidal dish concentrator, AIP Conference Proceedings 2427 (1), 2023
4. Y Sable, HM Dharmadhikari - Artificial Neural Network prediction model for MRR in WEDM of WC-Co Materials Today: Proceedings, 2022 <https://doi.org/10.1016/j.matpr.2022.09.444>
5. GG Naik, HM Dharmadhikari Methods for reducing NOx and PM emissions in compression ignition engine: A review Materials Today: Proceedings, 2022 <https://doi.org/10.1016/j.matpr.2022.09.339>
6. Pramod Ram Wadate, Dharmadhikari H.M.” An Experimental Investigation And Mathematical Quantification Of A Scheffler Reflector Concentrator System”, Proceedings of the National Conference on Energy and Environment for Sustainable Development (NCEESD-2022) July 5-6, 2022, Government College of Engineering and Research Avasari, Pune.
7. Pramod Ram Wadate, Dharmadhikari H.M.”An Experimental Investigation And Mathematical Quantification Of A Scheffler Reflector Concentrator System” Proceedings of the National Conference on Energy and Environment for Sustainable Development, 2022.

8. S. G. Auti, A. J. Keche, A. T. Autee, H. M. Dharmadhikari, Experimental Investigation and Simulation of Split Injection at Different Injection Pressures in Compression Ignition Engine for Improving Emissions, Mechanical Engineering for Sustainable Development: State-of-the-Art Research, 978-1-351-17016-1 (eBook), Apple Academic Press Inc
9. H. M. Dharmadhikari and Sayyed Siraj, Experimental And Statistical Investigation Of Density And Viscosity Of Biodiesel And Diesel Blends, Mechanical Engineering for Sustainable Development: State-of-the-Art Research, 978-1-351-17016-1 (eBook), Apple Academic Press Inc
10. Pramod Wadate, H. M. Dharmadhikari, A review of Thermal Performance of Solar Concentrator – the future needs, International Journal of Engineering Sciences 12 (3), 92-100, 2019
11. Sayyed, Siraj & Dharmadhikari, H.M. & Gore, Nilesh. (2018). Modeling of Roughness Value from Tribological Parameters in Hard Turning of AISI 52100 Steel. Procedia Manufacturing. 20. 344-349. 10.1016/j.promfg.2018.02.050.
12. Sayyed Siraj, BM Gitte, SD Joshi, HM Dharmadhikari Characterization of biodiesel: a review, Int J Eng Res Technol 2 (10.17577), 2018
13. H. M. Dharmadhikari and Sayyed Siraj, (2017). Experimental And Statistical Investigation Of Density And Viscosity Of Biodiesel And Diesel Blends, 1st International and 18th ISME Conference on Enabling Sustainable Development in Mechanical Engineering, Feb 23-25,2017, NIT Warangal <http://cms.nitw.ac.in/isme2017/>
14. MU Deshpande, JM Kshirsagar, Dr HM Dharmadhikari; Optimization of GMAW process parameters to improve the length of penetration in EN 10025 S 235 Grade, Journal of Welding and Joining 35 (1), 74-78, 2017
15. Pranav Sanap, H. M. Dharmadhikari, A. J. Keche (2016). Optimization of Plastic Moulding by Reducing Warpage With the Application of Taguchi Optimization Technique & Addition of Ribs in Washing Machine Wash Lid Component. IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) Volume 13, Issue 5 Ver. I (Sept. – Oct. 2016), PP 61 – 68.
16. A. B. Patni, H.M. Dharmadhikari (2016). Experimental Investigation and Optimization of Ra Value, EWR and MRR in Electric Discharge Machining. IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) (Jan. - Feb. 2016), PP 62-70.
17. Sayyed Siraj, H.M. Dharmadhikari, J.M. Kshirsagar (2016). Formulation Techniques in Regression Analysis to Estimate the Roughness Value from Tribological Parameters in Hard Turning of AISI 52100 Steel. IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) Volume 13, Issue 1 Ver. I (Jan. - Feb. 2016), PP 26-36.
18. Nilesh Suryakant Gore, H.M. Dharmadhikari (2015). Optimization of Roughness Value from Tribological Parameters in Hard Turning of AISI 52100 Steel. IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), Volume 12, Issue 6 Ver. V (Nov. - Dec. 2015), PP 37-44.
19. Sayyed Siraj, H.M. Dharmadhikari, A.T. Autee. Modeling of higher heating values of Karanja Biodiesel *submitted in International Journal of Green Energy a Taylor and Francis Journal UK (Manuscript ID: IJGE-2015-0730).*
20. Sayyed Siraj R., Joshi, S. D., & Dharmadhikari, H. M. Effect of Individual Physio-Chemical Properties of Karanja Oil Methyl Ester (KOME) & Its Statistical Correlation with Gross Calorific Value. IJRET: International Journal of Research in Engineering and Technology ISSN: 2319-1163 , 2013
21. S Siraj ,BM Gitte, HM Dharmadhikari Characterisation of Biodiesel Fuel, Journal of Engineering Research & Technology nt J Eng Res Technol 2 (10.17577), 2013
22. BM Gitte, S Siraj, HM Dharmadhikari Performance and Emission Characteristics of Diesel Engine Fuelled with Biodiesel & its Blends: A Review, Journal of Engineering Research & Technology (IJERT) 2, 3235-3243, 2013

23. HM Dharmadhikari, PR Kumar, SS Ra Performance and Emissions of CI Engine using blends of biodiesel and diesel at different injection pressures, Journal of Applied Research in Mechanical Engineering 2 (2), 1-6, 2012
24. A.T.Autee C.L.Gogte, Dharmadhikari H.M., “Effect of cryogenic Treatment on wear Resistance of D2 Steel”, Proceedings of AMPC, International conference on Advances in Materials Processing and characterization. Vol.2 I.K. International Publishing House, 2006. p. 610-612.
25. Dharmadhikari H.M., A. T. Autee “Energy Options for India” Technomillennium-2006, International Technical Paper Presentation at MIT Aurangabad, Sept 15-17, 2006.

Reviewer for Journals:

1. Reviewer for the International Journal of Ambient Energy, a Taylor &Francis publication (Manu Id. TAEN-2013-34).
2. Reviewer for the International Journal of Sustainable Energy, a Taylor &Francis publ. (TSUE-2013-0021).
3. Reviewer for the Manuscript ID TAEN-2014-0113 for International Journal of Ambient Energy.
4. Reviewer for the Manuscripts- JER Article Review Requests: 14067, 15115 & 16829- for Journal of Engineering Research (2022/2023).

Date: 01/04/2025

Place: Chhatrapati Sambhajanagar



Signature