

Name MR. UMESH DEVIDAS GULHANE
M. TECH. (Metallurgy)
B. E. (Mechanical)

Designation Associate Professor
Department Mechanical Engineering
Date of Joining the Institute 16/08/2001
Education Master of Technology
Branch / Specialization Mechanical , Metallurgy
Areas of Interest Manufacturing, Tribology
Email Umesh.gulhane@famt.ac.in
Personal Homepage link --



Academic Appointments

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management and Technology, Ratnagiri	From 16/08/01 to till date	Associate Professor

Total Experience – 16 Years

Awards / Honors / Prizes/Scholarship

1. Received Open Merit Scholarship at SSC level
2. Received Open Merit Scholarship at HSSC level

Students projects Guided at Masters Level (ME Machine Design)

1. Investigation of effect of straight sided & scalloped Shim profile on performance of shim coupling by Finite Element Analysis
2. Design Optimization of C Frame of Hydraulic press Machine
3. Relief Holes for the Mitigation of Stress Concentration Factor of a Thin Rectangular Plate under In-Plane Loading
4. Comparison of experimental and analytical study for vibration characteristics of MR cantilever beam
5. To Analyze and Improve the performance of the spring Assembly of Vibro

Papers Published

Papers Presented/Published in National / International Journals - 22

International Journals – 22

1. **U. D. Gulhane**, Annasaheb Patil, Suraj Takale, Atharv Patil, Parag Mathakar, April 2017, Wear Analysis Of Composite Material Made By Blending Of Naturally Available Coconut Shell Powder (Csp), World Journal of Engineering Research and Technology, www.wjert.org, wjert, 2017, Vol. 3, Issue 3, PP-136 -146 www.wjert.org, ISSN 2454-695X ,SJIF Impact Factor: 4.326
2. **U. D. Gulhane**, Akshay Patil, Sagar Masram, Vaibhav Kamble, Girish Mathakar, April 2017, Investigating The Effect Of Material's Initial Temperature On Surface Roughness For Milling Of Al 6061 Alloy Using Full Factorial Approach, World Journal of Engineering Research and Technology, www.wjert.org, wjert, 2017, Vol. 3, Issue 3, PP-127 -135 www.wjert.org, ISSN 2454-695X ,SJIF Impact Factor: 4.326
3. **U. D. Gulhane**, Sanket S. Patil, **2016**, Design of Experimentation on Roll Cage of All Terrain Vehicle, International Journal of Engineering Research & Technology (IJERT), <http://www.ijert.org>, ISSN: 2278-0181, IJERTV5IS110197, Vol. 5 Issue 11, November-2016 **Impact factor 1.76**
4. **U. D. Gulhane**, Prasad V. Sawant, Arunkumar S. Shinde, Ashish A. Hodawadekar, "Investigating the Effect of Machining Parameters on Surface Roughness and MRR of Ti-6Al-4V Titanium Alloy in End Milling", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Volume.4, Issue 2, pp.979-985, May 2016, Available at :<http://www.ijedr.org/papers/IJEDR1602171.pdf>, **Impact factor 4.98**
5. A. B. Hatapakki , **U. D. Gulhane**, **2016**, Design optimization of C frame of Hydraulic press machine, Asian Journal of convergence in Technology, Vol II, Issue III, ISSN NO. 2350- 1146 **Impact factor 2.71** <http://www.asianssr.org/AJCTjournal.php#tabs-5>
6. S. R. Kambale, **U. D. Gulhane**, **2016**, Application of Taguchi Mehod for optimization of parameters in mitigation of stress concentration factor of thin rectangular plate under static loading, Asian Journal of convergence in Technology, Vol II, Issue III, ISSN NO. 2350- 1146 **Impact factor 2.71** <http://www.asianssr.org/AJCTjournal.php#tabs-5>
7. E. Manjarekar, S. H. Kumbhar, **U. D. Gulhane**, **2016**, Review paper on of free vibration response of MR sandwiched beam, Asian Journal of convergence in Technology, Vol II, Issue III, ISSN NO. 2350- 1146 **Impact factor 2.71** <http://www.asianssr.org/AJCTjournal.php#tabs-5>
8. **U. D. Gulhane**, S. S Patil, S. S. Sulakude, R. R. Pol, Y. D. Parit, **2016**, Design, Development and analysis of the roll cage for all terrain vehicle, Asian Journal of convergence in Technology, Vol II, Issue III, ISSN NO. 2350- 1146 **Impact**

factor 2.71 <http://www.asianssr.org/AJCTjournal.php#tabs-5>

9. **U. D. Gulhane**, P.P.Chavan, V.V.Pashte, B.M.Bhide, S.R.Patil, 2015 "Elemental Analysis Using Doe Approach on Flexural Strength of Castellated Beam" International Journal of Advanced and Innovative Research (ISSN:2278-7844) / Volume 4 Issue 4, pages 397-401 **Impact factor 0.349**
<http://ijair.jctjournals.com/>
10. E. Manjarekar¹, S. Kumbhar, **U D Gulhane**, 2015, "Study and Vibration Response Analysis of MR Cantilever Beam", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.3, Issue 1, pp.288-293, Jan 2015 Impact **Factor 3.97** <http://ijair.jctjournals.com/>
11. S.R.Kambale, **U.D.Gulhane**, 2015 " Relief holes for the mitigation of stress concentration factor of a thin rectangular plate under in-plane loading"" International Journal of Advance Research and Innovative Ideas in Education (IJARIE) ISSN: 2395-4396, Vol. -1 Issue 3, Pages 166-174 **Impact Factor 4.06**
<http://ijarjie.com/Impactfactor.aspx>
12. A. B. Hatapakki, **U D. Gulhane.**,2015 "Design Optimization of C Frame of Hydraulic Press Machine ", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.3, Issue 2, pp.1407-1419, May 2015, Available :<http://www.ijedr.org/papers/IJEDR1502230.pdf>
Impact Factor 3.97
13. **U. D. Gulhane**, A. B. Bapat, T. D. Kalambate, R. A. Kamble, H. H. Kher , 2015 ""Analysis of Electric Arc Welding Process for the Improvement of Weld Strength and To Minimize Cracks in Weld of ASTM A106 Grade B: DOE Approach"" International Journal of Advanced and Innovative Research (ISSN: 2278-7844) / Volume 4 Issue 4, pages 571-576 **Impact factor 0.349**
14. R. D. Belekar, **U. D. Gulhane**, "Investigation of effect of straight sided and scalloped shim profile on performance of shim coupling by finite element analysis" International Journal of Advanced Technology in Engineering and Science www.ijates.com, Volume No.02, Issue No. 07, July 2014 ISSN (online): 2348 – 7550 pages 73-87
15. **U. D. Gulhane**, S. P. Ayare, V.S.Chandorkar And M .M . Jadhav, 2013. Investigation Of Turning Process To Improve Productivity (Mrr) For Better Surface Finish Of Al-7075-T6 Using Doe.International Journal Of Design And Manufacturing Technology (Ijdm).Volume: 4, Issue: 1, Pages:59-67.
16. **U. D. Gulhane**, P. P. Patkar, P. P. Toraskar, S. P. Patil And A. A. Patil, 2013. Analysis Of Abrasive Jet Machining Parameters On Mrr And Kerf Width Of Hard And Brittle Materials Like Ceramic.International Journal Of Design And Manufacturing Technology (Ijdm).Volume: 4, Issue: 1, Pages: 51-58.
17. **U. D. Gulhane**, B.D. Sawant, P. M. Pawar, T. S. Nawale, Y. S. Gawade. April-2013.Analysis of influence of shaping process parameters on MRR and surface roughness of Al 6061 using Taguchi method. International Journal of Applied Research and Studies (IJARS) ISSN: 2278-9480 Volume 2, Issue 4 (April- 2013)
www.ijars.in
18. **U. D. Gulhane**, M.P.Bhagwat, M.S.Chavan, S.A.Dhatkar And S.U.Mayekar, 2013. Investigating The Effect Of Machining Parameters On Surface Roughness Of 6061 Aluminium Alloy In End Milling.International Journal Of Mechanical Engineering &

Technology (Ijmet).Volume: 4, Issue: 2,Pages: 134-140.

19. S. S. Malusare, **U. D. Gulhane**, S. S. Goilkar 2013 Review of Magneto rheological fluid and its applications. International Journal of Advances in Management, Technology and Engineering Science. Vol II, Issue 9 (III) pages 99-103
20. **U. D. Gulhane**, C.A.Nalawade, K.P.Sohani , V.S.Shirodkar , 2012. Six Sigma Implementation Model For File Manufacturing Industry.International Journal Of Mechanical Engineering & Technology (Ijmet).Volume: 3, Issue: 2,Pages: 59-66.
21. **U. D. Gulhane**, A. B. Dixit, P. V. Bane, G. S. Salvi, 2012. Optimization Of Process Parameters For 316L Stainless Steel Using Taguchi Method And Anova.International Journal Of Mechanical Engineering & Technology (Ijmet).Volume: 3, Issue: 2, Pages: 67-72.
22. **U. D. Gulhane**, S. B. Mishra, P. K. Mishra, 2012. Enhancement of surface roughness of 316l stainless steel and ti-6al-4v using low plasticity burnishing: doe approach. International Journal of Mechanical Engineering & Technology (IJMET).Volume: 3, Issue: 1, Pages: 150-160. ISSN Print : 0976 – 6340
ISSN Online: 0976 – 6359

Papers Presented/Published in National/ International Conferences - 07

International Conferences – 03

1. S. S. Malusare, **U. D. Gulhane**, S. S. Goilkar, " Review of Magneto rheological fluid and its applications", International Research Conference on innovative strategies in commerce, management, engineering technology and social sciece, Goa, June 10-11, 2013
2. K. P. Sohani, A. N. Shetty, **U. D. Gulhane**, "Total quality management systems and six sigma" proceedings of International Conference on Industrial Engineering at SVNIT, Surat, Gujarat, November 17-19, 2011.
3. **U. D. Gulhane**, M. Roy, S. G. Sapate, S. B. Mishra, P. K. Mishra, "Influence of surface treatment of high carbon steel on the reciprocating wear in comparison with the 316 stainless steel", Proceeding of ASME/STLE International joint Tribology conference IJTC2009, October 19-21, 2009, Memphis, Tennessee USA, pp-55-57.

National Conferences – 04

1. S. R. Kambale, **U. D. Gulhane**, February 2016, Application of Taguchi Mehod for optimization of parameters in mitigation of stress concentration factor of thin rectangular plate under static loading, Proceedings of the 2nd National conference on Recent Advances in Science and Technology, 17-18 February 2016, ISBN 978-93-83046-31-7, at FAMT, Ratnagiri RAST2K16/MECH/04
2. A. B. Hatapakki , **U. D. Gulhane**, February 2016, Design optimization of C frame of Hydraulic press machine, Proceedings of the 2nd National conference on Recent Advances in Science and Technology, 17-18 February 2016, ISBN 978-93-83046-31-7, at FAMT, Ratnagiri RAST2K16/MECH/05

3. E. Manjarekar, S. H. Kumbhar, U. D. Gulhane, February 2016, Review paper on of free vibration response of MR sandwiched beam, Proceedings of the 2nd National conference on Recent Advances in Science and Technology, 17-18 February 2016, ISBN 978-93-83046-31-7, at FAMT, Ratnagiri RAST2K16/MECH/13
4. **U. D. Gulhane**, S. S Patil et. al February 2016, Design, Development and analysis of the roll cage for all terrain vehicle, Proceedings of the 2nd National conference on Recent Advances in Science and Technology, 17-18 February 2016, ISBN 978-93-83046-31-7, at FAMT, Ratnagiri RAST2K16/MECH/15

Number of Workshops, Seminars, STTPs, FDPs Attended – 12

1. One day training programme on “ Intellectual Property Rights” Organised by Maharashtra Centre for Entrepreneurship Development (MSED) Aurangabad, under the sponsorship of MSME at Hotel Vivek, Ratnagri on **23 rd August 2016**.
2. One Week workshop on “Funding Schemes Available for Research Proposal” organised by Research, Development and Consultancy Cell (RDCC), at Finolex Academy of Mgmt. and Tech. Ratnagiri from **13th February to 23rd April 2016**.
3. One Day workshop on “Avishkar Research” organised by Dept. of Student Welfare, Mumbai University and DBJ College,Chiplun on 5th April 2016.
4. The ISTE Sponsored two-week workshop on “Control Systems”, conducted by the Indian Institute of Technology, Kharagpur at FAMT, Ratnagiri remote centre, during **December 2-12, 2014**. This workshop was held under the National Mission on Education through ICT (MHRD)
5. The ISTE Sponsored two-day e-seminar on “Steps 2 Research”, organized by the Amal Jyothi College of Engineering, Kanjirappaly in Association with ISTE Kerala Section and CSI Cohin Chapter, during September 19-20, 2014.
6. The ISTE Sponsored two-week workshop on “Engineering Mechanics”, conducted by Indian Institute of Technology, Bombay at Finolex Academy of Management and Technology (FAMT), Ratnagiri – 415639, Maharashtra, India , during 26th Nov to 06th Dec, 2013. This workshop was held under the National Mission on Education through ICT (MHRD)
7. One Day workshop on “New Paradigms in the Accreditation System” organised by Aasaan Educare Private Limited, Chennai at Hotel Pride, Pune on **5th Nov 2011**.
8. One day Workshop on “Quality Education in Engineering and Technical Institution” Organised by FAMT ISTE Chapter on **24th January, 2009**.
9. The AICTE Sponsored two-week staff development programme on “Advanced Manufacturing Processes”, organized by the Department of Mechanical Engineering at Motilal Nehru National Institute of Technology (MNNIT), Allahabad, during **March12-23, 2007**.
10. The AICTE Sponsored two-week staff development programme on “Nano-Technology: Opportunities and Challenges” organized by Department of Mechanical Engineering of Dr. Babasaheb Technological University, Lonere (Maharashtra), during **December19-31, 2005**.

11. One day Workshop entitled " Effective Teaching Skills" conducted by Global Research Education And Training Foundation(GREAT), Pune held on **11th January 2004 at Pune**
12. One day Orientation course in "Engineering Drawing" conducted by the Department of Mechanical Engineering, Sardar Patel College of Engineering, Mumbai, India on **5th April 2002.**

Professional Membership

Life Member (LM 56181-2008) of the Indian Society for Technical Education (ISTE)

College Exam Duties

Worked As Senior Supervisor
Worked As a Joint Chief Conductor
University Paper Setter
University paper Valuator

Other Experience

College Level Committees

- 1. Institute level Mentorship Committee Coordinator**
- 2. NAAC Committee Core team member**
- 3. Assistant Warden(Boys)**

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Materials Technology	S. E. Mechanical-III	14 Years
2.	Strength of Materials	S. E. Mechanical-IV	8 Years
3.	Supply Chain Management	B. E. Mechanical-VII	7 Years
4.	Business Process Reengineering	B. E. Mechanical-VIII	6 Years
5.	Engineering Mechanics	F. E. All branch -I	6 Years
6.	Engineering Drawing	F. E. All branch -II	5 Years

7.	Tribology	M. E. Mechanical (Machine Design)- II	2 Years
8.	Production Process II	S. E. Mechanical-IV	1 Year
9.	Elements of Machine design	T. E. Mechanical-V	1 Year