

# CAREER PROFILE

**Dr.Mrs.Geeta S. Lathkar**

**Director**

Mahatma Gandhi Mission's,  
**College of Engineering,**  
Nanded – 431 605 (MS)

CAREER PROFILE

Dr.Mrs.Geeta S. Lathkar

**Name** : Dr.Mrs.Geeta S. Lathkar

**Present Designation** : Director  
MGM's College of Engineering,  
Nanded.

**Date of Birth** : 16<sup>th</sup> June 1963

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**Academic Qualifications** :



1. **Ph.D.**, Swami Ramanand Teerth Marathwada University, Nanded  
Guide Dr.S.K.Basu (Prof. Emeritus Govt. College of Engg. Pune)  
Awarded in the year-2003.  
**Title of the Thesis :**  
**“Optimization of Parameters & Cut-Plan for Fine Machining  
Operations Using Solid Lubricants.”**
2. **M.E. (Design)** with First Class, Poona University, Pune  
Year of Passing-1997.  
**Mechanical Engineering, Machine Design**
3. **B.E. (Mechanical)** with Distinction, Rank-III in University,  
Marathwada University, Aurangabad.  
Year of Passing-1984.

**Current Assignments :**

1. Approved as **Research Guide & PG Teacher in the subject Mechanical & Production Engineering** from 14/08/2006 by Swami Ramanand Teerth Marathwada University, Nanded.
2. Chairman Board of Studies in the subject **Mechanical & Production Engineering** at Swami Ramanand Teerth Marathwada University, Nanded.
3. Elected member of Academic Council for Swami Ramanand Teerth Marathwada University, Nanded.
4. Working as a Competent Authority of AMUPMDC (Association of Maharashtra Unaided Private Medical & Dental Colleges) since 2009 till date.

### **Responsibilities Undertaken :**

1. **Dean, Faculty of Engineering** Swami Ramanand Teerth Marathwada University, Nanded.
2. Elected **Member of Senate** of Swami Ramanand Teerth Marathwada University, Nanded.
3. Worked as **Member of Management Council** of Swami Ramanand Teerth Marathwada University, Nanded.
4. Worked as **Secretary cum Treasurer for ISTE Maharashtra & Goa** sections. Was elected as member of ISTE, National Executive Council for two times.
5. Worked as **Member of Academic Council** of Swami Ramanand Teerth Marathwada University, Nanded.
6. Worked as Member of **Accounts & Finance Committee** Swami Ramanand Teerth Marathwada University, Nanded.
7. Worked as Member of **Board of Sports and Cultural Activities** Swami Ramanand Teerth Marathwada University, Nanded.
8. Worked as member **Advisory Committee for Govt. Medical College & Hospital Nanded**, by State Govt. of Maharashtra.
9. Appointed as **Special Executive Magistrate** by State Govt. of Maharashtra.
10. Appointed as Expert Member of **ISTE-WPLP** project for joint committees of Academic Industries in Mechanical Engineering.
11. Responsible for development of MGM's College of Engineering & Technology, Noida (U.P.)
12. Appointed as **Chairman Women Employees Grievances Committee** Swami Ramanand Teerth Marathwada University, Nanded.
13. Worked as controller of Examinations for AMUPMDC (Association of Maharashtra Unaided Private Medical & Dental Colleges) since 2004 to 2009.

### **Memberships of Professional Bodies :**

1. Fellow of **Institution of Engineers** (India), Membership upgraded to 'Fellow' (Fellow No. F-112717-5) & (Regn. No. 070200994510) by Institute of Engineers recently. (Membership No. M/112017/9).
2. Member of **Computer Society of Hardware Research**.
3. Life Member of **ISTE**, also worked as Secretary/Treasurer of Maharashtra & Goa region.
4. Member as **Consultancy Development Centre** (CDC), Delhi as a Autonomous Institution promoted by DSIR, Ministry of Science & Technology.
5. Member Central Manufacturing Technology Institute, Bangalore-India.
6. ASME Journal Reviewer- Dec.2014.
7. Nominated in Advisory Committee INDO-US Collaboration for Engineering Education (ICTIEE)-2016, College of Engineering, Pune.

### **Details of Research and Publication :**

1. Paper published in Institute of Engineers Journals (IE(I)) Volume 89, September 2008 by V.P.Mhala , Dr.G.S.Lathkar **“Contact Deformation of Machine Tool Joints Using UHMWPE under varying process parameters and Environmental Condition.”**
2. Paper published in 2<sup>nd</sup> International and 23<sup>rd</sup> All India Manufacturing Technology, Design and Research conference (AIMTDR 2008) Chennai **“Evaluation of surface roughness while machining M.S and EN-8 and analysis of Geometric error”** S.P.Lathkar, Ch.Sureshkumar, Dr.G.S.Lathkar & Dr.S.K.Basu.
3. Paper Selected in 2<sup>nd</sup> International and 23<sup>rd</sup> All India Manufacturing Technology, Design and Research conference (AIMTDR 2008), Chennai **“Experimental Investigation And Optimization Of Tool Life While Turning O.H.N.S. By Using Coated Carbide Inserts.”** N.A. Kadam and Dr.G.S.Lathkar.
4. **Clean Metal Cutting Process Using Solid Lubricants**  
(Mrs. G.S. Lathkar & Prof. S.K. Basu Paper was presented in AIMTDR conference 2000 at Chennai).

5. **“Some Experiments in Machining Using Grease Based Solid Lubricant,** (Mrs.G.S.Lathkar & Prof.S.K.Basu Paper was presented in Journal of Institute of Engineers 2001).
6. **“Optimization of Cutting Parameters In Fine Machining Using Sequential Search”** (Dr.Mrs.G.S.Lathkar & Prof.S.K.Basu Paper was presented in BHU, Varanasi in 18-19<sup>th</sup> January 2002).
7. **“Criticality Assessment of Clean Metal Cutting Parameters Using Digraph and AHP”,** (Dr.Mrs.G.S.Lathkar & Prof.S.K.Basu, Mr.M.D.Jaybhaye) Paper was presented in National Conference on Advances in Manufacturing Systems, AMS 28-29<sup>th</sup> March 2003 Production Engineering Dept. Jadavpur University, Kolkata.
8. **“Optimum cut-plan selection and Machine allocation in manufacturing”** paper presented at Vellore in 21<sup>st</sup> AIMTDR conference by (Dr.Mrs.G.S.Lathkar & Dr.S.K.Basu, December 2004.)
9. Paper selected in ASME conference from October 7-10, 2008, North Western University, Evanston, IL, USA, Chicago, **“Surface Finish in Hard Machining by PVD-Coated End-Mills using solid lubricant”** MSEC 2008 & ICM & P 2008.
10. **“Experimental Investigation and Comparative Performance of the Titanium Coated Carbide Inserts for Turning of Hardened Steel Material”** paper published in International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences (April/July 2010 IJ-CA-ETS) by M.S.Kadam, Dr.B.M.Dabade & Dr.Mrs.G.S.Lathkar, (9/4/2010)
11. **“Analysis of Surface Roughness and Tool Wear in Finish Hard Turned Jobs Through RSM Based Models”** paper published in International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences (April/July 2010 IJ-CA-ETS) by M.S.Kadam, Dr.B.M.Dabade & Dr.Mrs.G.S.Lathkar, (9/4/2010)
12. **“Condition based system reliability with imperfect preventive maintenance”,** (S.H.Sarje<sup>1\*</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>, Dr.S.K.Basu<sup>3</sup>)

13. J.S.Sidhu, Dr.Mrs.G.S.Lathkar, Dr.S.B.Sharma, **“Development of Epoxy Composite filled with Micro Tungsten Disulphide Particles And Its Mechanical Properties”** International Conference on Advanced material and Manufacturing Science. (ICAMMS-2012), Dec. 20-21, (2012). Beijing, China.  
(J.S.Sidhu<sup>1</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>, Dr.S.B.Sharma<sup>3</sup>)
14. **“Failure prevention of hydraulic system based on oil contamination.”**  
(Manmohansingh Rajput<sup>1</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>, Dr.Basu S.K.<sup>3</sup>)
15. **“Reliability analysis of electro-hydraulic based auto leveling system for mobile platform.”** (IJEIT) Vol.-I, Issue 2, Feb. 2012 (Manmohansingh Rajput<sup>1</sup>, M.D.Jaybhaye<sup>2</sup>, Dr.(Mrs.)G.S.Lathkar<sup>3</sup>, Dr.Basu S.K.<sup>4</sup>)
16. **“CBM policy for an online continuously monitored deteriorating system with random change of mode.”** Journal of Institution of Engineer (India), Springer (Jan-March 2012) 93 (1), 27-32.  
(S.H.Sarje<sup>1\*</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>, Dr.Basu S.K.<sup>3</sup>)
17. **“Monte Carlo simulation of two echelon supply chain.”** Accepted for publication in Journal of institute of industrial Engineers.  
(S.H.Sarje<sup>1\*</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>)
18. **“Condition based system reliability with imperfect preventive maintenance”** accepted in AIMTDR Conference.  
(S.H.Sarje<sup>1\*</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>, Dr.Basu S.K.<sup>3</sup>)
19. **“Optimization of PVD Coating Thickness on End Milling Cutter for Evaluation of Tool Wear Under the Influence of Solid Lubricant MoS<sub>2</sub> Using Response Surface Methodology”** ASME Conference North Western University, Chicago.  
(<sup>1</sup>Biradar S.K., <sup>2</sup>Dr.(Mrs.)G.S.Lathkar, <sup>3</sup>Dr.Basu S.K.)
20. **“Sensitivity analysis for the mathematical model of surface roughness and tool wear while machining of HCHCr using PVD coated end milling cutters”** AIMTDR, Jadhavpur University, Kolkata.  
(<sup>1</sup>Biradar S.K., <sup>2</sup>Dr.(Mrs.)G.S.Lathkar)
21. Bachchhav B.D., Lathkar G.S., Bagchi H., **“Criticality assessment in lubricant selection for metal forming processes by AHP”**, International Journal of Manufacturing Technology and Industrial Engineering, Vol. 3, Issue:1, Jan-June 2012, pp.31-35. [ISSN : 0976-6251].

22. Bachchhav B.D., Lathkar G.S., Bagchi H., **“Tribology of easter added lubricants”**, Journal of Tribology and Surface Engineering, Vol. 3, Issue : 1-2, Jul-Sept. 2012, [ISSN : 1949-4866], NOVA Science Publishers, Inc., USA.
23. Bachchhav B.D., Lathkar G.S., Bagchi H., **“Tribology of drawing lubricants for low carbon steel”**, Industrial Lubrication and Tribology, [ISSN:0036-8792], Emerald Group Publishing Limited. (Accepted for Publication).
24. Bachchhav B.D., Lathkar G.S., Bagchi H., **“A study of tribo-characterstics of deep drawing oils”**, Journal of Manufacturing Engineering, Vol. 6, Issue : 3, Sept. 2-11, pp. 147-152. [ISSN : 0973-6867].
25. Bachchhav B.D., Lathkar G.S., Bagchi H., **“General tribological evaluation of deep drawing oils”**, Journal of Manufacturing Technology Today, Vol. 10, Issue : 9, Sept. 2011, pp. 12-16. [ISSN : 0972-7396].
26. Bachchhav B.D., Lathkar G.S., Bagchi H., **“General tribological evaluation of deep drawing oils”**, Journal of Manufacturing Technology Today, Vol.10, Issue 9, Sept. 2011, pp.12-16. [ISSN : 0972-7396].
27. Bachchhav B.D., Lathkar G.S., Bagchi H., **“Frictional characteristics of lubricants for 1010 low carbon steel/steel in sliding contact”**, International Conference on Materials Processing and Characterization (ICMPC-2012), pp.479-483. March, 8-10, 2012, Hyderabad, India.
28. Bachchhav B.D., Lathkar G.S., Bagchi H., **“Lubricant selection for metal forming processes by subjective and objective integrated multi-attribute decision making method”**, International Conference on Industrial Tribology (ICIT-2012), TSI 812543, Dec., 7-9, 2012, Pune, India.
29. Archana M. Rajurkar & Geeeta S. Lathkar, **“Research & Development Challenges for Women Engineers in the Field of Software Industries”** Proc. National Seminar on Issues Pertaining to Women in Technical Education, at Government College Engineering, Raipur, 16-17 Jan. 1997.
30. **“Wear and Frictional Characteristics of Some Polymeric Materials for Gears used in Machine Tools.”**  
(Production Engineering Journal of Intuition of Engineers, Vol. 92, (Sept. 2011) **Gold Medal Winning Paper**  
(V.S.Joshi<sup>1\*</sup>, Dr.G.S.Lathkar<sup>2</sup> and Dr.S.K.Basu<sup>3</sup>)

31. **"Monte Carlo Simulation of Two Echelon Supply Chain"** published in Industrial Engineering Journal (Vol. VI & issue No.2, Feb. 2013).  
(S.H.Sarje<sup>1\*</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>, Dr.S.K.Basu<sup>3</sup>)
32. **"Experimental Investigation of Heat Transfer Coefficient for Laminar Flow of Zinc Oxide-Water Nanofluid."** Proceedings of International Conference on Advances in Mechanical Engineering May 29-31, 2013, COEP, Pune, Maharashtra, India.  
(V.G.Kasbe<sup>1\*</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>)
33. **Multiobjective Optimization of End Milling HCHCr using AlCrN PVD Coated Cutters with MOGA and RSMO.** Proceedings of the ASME 2014 International Manufacturing Science and Engineering Conference. June 9-13, 2014, Detroit, Michigan, USA.  
(S.K.Biradar<sup>1\*</sup>, Dr.(Mrs.)G.S.Lathkar<sup>2</sup>)
34. **"Mechanical Properties of Micro Tungsten Disphide Particles Filled Epoxy Composite And Its Resistance Against Sliding Wear."** Malaysian Polymer Journal, Vol. 9 No.1, p 24-32, 2014.  
(J.S.Sidhu<sup>1\*</sup>, Dr.G.S.Lathkar<sup>1</sup>and Dr.S.B.Sharma<sup>2</sup>)
35. **"Analysis of used oil on the basis of wear volume using Taguchi Method."** IOSR Journal of Engineering (IOSRJEN), ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 04, Issue 04 (April. 2014). IIV411 PP 34-40.  
(Abhay D. Kulkarni<sup>1\*</sup>, Dr.Geeta S. Lathkar<sup>2</sup>)



#### Other :

1. Visited U.S.A. in Aug. / Sept. 2005 on invitation of pass out students & then in June 2007 to attend workshop on Manufacturing in North Western, University, Chicago (USA) on invitation. Jan. 2008 to Hawaii for attending Hawaii International Conference on System Sciences (USA).
2. Organized two International Workshops on Manufacturing Sciences, Lectures from faculties of University of Illinois, North Western University, Chicago (USA) University of California (Irvine), Urbana Champaign (USA) & Nagoya Institute of Tech. Were organized (Japan).
3. Attended (IUWMF-09) INDO-US workshop on micro-fluidics and Fabronics (Micro-fabrication) 9-11 Jan. 2009 at IIT Kharagpur.
4. Attended many National conferences, got the honour to Chair the sessions therein :  
Chaired a session in AIMTDR, Vellore.  
Chaired a session in AIMTEG, Pune.  
Chaired a session in Revamping of Technical Education in Auragabad & many others at local & state level.

#### **Key Note Speaker :**

National Workshop on Advances on Automation, **Virtual and Computer Integrated Manufacturing**, Guru Nanak Dev Engineering College Bidar.

5. Invited as '**Visiting Scholar**' in University of Illinois Urbana-Champaign for the Research in the area of '**Micro-Manufacturing Process of Modeling and Automation**' with Prof. Shiv Kapoor and colleagues.
6. Organized INDO-US Workshop on "Fabronics" at JNEC, Aurangabad 17-22 Dec. 2010.

**Personal Interest :**

Traveling, Music, Literature

Published a Book of Poems “**Maza Muth Bhar Aakash**” in Marathi.

**Recent Award :**

Kusumtai Chavan Mahila Bhushan Puraskar-2014 by Maharashtra Rajya  
Marathi Patrakar Sangh.

**[Dr.Mrs.Geeta S. Lathkar]**  
Director

**Place : Nanded**

**Date : 24<sup>th</sup> June 2015**

### **Industrial Tie-ups (Collaboration) :**

- Indo German Tool Room Aurangabad for Training in Mechanical Engineering students.
- Microsoft for .Net Training.
- Tie up with Oracle University for Work force development program for Oracle courses.
- Tie up with IBM for AIX Training.
- Collaboration with Pittsburgh University.
- INDO-US Forum.
- Bhabha Atomic Research Centre (BARC)

### Ph.D. Students Status :

- **As a Guide :**

Research students registered - 10 (04 awarded)

- **As a Co-guide :**

Research students registered - 04 (04 awarded)

- **M.E. (MPE) Dissertation students** - 09 (07 completed)

### Approved Principal & Guide :

- Approved as **Research Guide & PG Teacher in the subject Mechanical & Production Engineering** from 14/08/2006 by Swami Ramanand Teerth Marathwada University, Nanded. **(Research Guide)**
- Approved as a **Principal (MGM's College of Engineering, Nanded)** from 13/04/1999 by Swami Ramanand Teerth Marathwada University, Nanded.