

## HARSHIT KISHORCHANDRA DAVE

Lecturer, Mechanical Engineering Department

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**Date of Birth** : 7<sup>th</sup> April, 1979

**Date of Joining** : 13<sup>th</sup> March, 2009

**Educational Qualification** :

- **Ph.D. [Mechanical Engineering] Ongoing**  
S. V. National Institute of Technology, Surat
- **M.E. [Production] 2001 - 2003**  
Faculty of Technology & Engineering,  
M. S. University, Baroda
- **B.E. [Mechanical Engineering] 1997- 2001**  
Lukhdhirji Engineering College, Morbi

**Experience** :

- Lecturer, SVNIT, Surat (since March 2009)
- Research Scholar, SVNIT, Surat (Nov. 2007 – March 2009)
- Lecturer, SPCE, Visnagar (N.G.) (July 2004 – Nov. 2007)  
(Jan. 2004 – April 2004)

Total Teaching Experience : 4 + years

**Current Area of Interest** :

- Unconventional Machining Processes
- Computer Aided Manufacturing
- Application of optimization tools to Manufacturing Processes

**Subject Involvement** :

- Theory of Metal Cutting
- Machining Processes
- Production Technology

**M. Tech. guided** : 01 (ongoing)

## RESEARCH PUBLICATIONS:

### International Journals : 01 + 03 (under review)

1. Harshit K. Dave & Harit K. Raval, "Modeling of cutting Forces as a function of Cutting Parameters in Milling Process using Regression Analysis and Artificial Neural Network", Special issue on "Artificial Intelligence applied in Machining" of the International Journal of Machining & Machinability of Materials, Paper accepted – under Printing
2. Harshit K Dave, Keyur P Desai & Harit K Raval, "A Decision support system for Tool Electrode selection using Analytic Hierarchy Process", International Journal of Expert Systems with Applications, Paper under review
3. M. K. Chudasama, H. K. Dave, H. K. Raval, "Optimization of milling operation using combined Grey Taguchi relational method and ANOVA". International Journal of Applied Engineering and Research, Paper under review
4. H. K. Dave, K. P. Desai, H. K. Raval, "Orbital Electro Discharge Machining – a Review", International Journal of Machine Tools and Manufacture, Paper under review

### International Conferences : 03

5. H. K. Dave & H. K. Raval, "Investigations on Optimization of Various Process Parameters for improving the Material Removal Rate on Fuzzy Logic Controlled Electro Discharge Machine" International Conference on Advances in Manufacturing Engineering, 24-26 October, 2007 at M. I. T., Manipal, Karnataka
6. Harshit K. Dave, Keyur P. Desai, Harit K. Raval, "Investigations on Prediction of MRR and Surface Roughness on Electro Discharge Machine using Regression Analysis and Artificial Neural Network Programming", World Congress on Engineering & Computer Science, October 2008 at UC, Berkley, San Francisco, California, US
7. H. K. Dave, K. P. Desai, H. K. Raval, "Investigations on Improvement of Output Quality characteristics in Electro Discharge Machining Process through the Optimization of Process Parameters using Taguchi Method", International Conference on Advances in Mechanical Engineering, 15-17 December, 2008 at SVNIT, Surat, India

### National Conferences : 04

8. H. K. Dave, K. D. Maniya, C. K. Desai, "Application of Optimization Techniques on Human Body for Ergonomic Design", National Level Conference on Advances in Engineering Design, 29-30 April, 2005 at B.A.I.T., Sathyamangalam, Tamil Nadu.
9. K. D. Maniya, H. K. Dave, D. P. Vakhariya, "Formulation of Optimal Design Problem for Worm Gear for Minimum Power Loss", National Level Conference on Advances in Engineering Design, 29-30 April, 2005 at B.A.I.T., Sathyamangalam, Tamil Nadu.
10. H. K. Dave, K. D. Maniya, H. K. Raval, "Recent advancements in utilization of Ultrasonic energy in various mechanical engineering applications." National Conference on Recent Developments in Mechanical Engineering, 10-11 November, 2006 at T.I.E.T., Patiala, Punjab
11. H. K. Dave, S. B. Ambaliya, H. K. Raval, "Design of software database for manufacturing on fuzzy logic controller based Electro Discharge Machine" National Conference on Recent Developments in Mechanical Engineering, 10-11 November, 2006 at T.I.E.T., Patiala, Punjab

## TRAINING PROGRAMES CONDUCTED:

1. A ISTE approved STTP on "Recent Trends in Manufacturing Technology (RTMT-2K6)", 18-23 December, 2006

### **TRAINING PROGRAMES / SEMINAR ATTENDED:**

1. A short term training programme “Emerging Trends in CAD-CAM” at SVM Institute of Technology, Bharuch, 9- 14 May, 2005.
2. A Seminar on “Importance & Relevance of Ph.D. for Achieving Excellence in Technical Education” at S. V. National Institute of Technology, Surat, 3<sup>rd</sup> December, 2005.
3. A National Workshop on “Different aspects of Electron Microscopy” at S. V. National Institute of Technology, Surat, 29-31 March, 2006
4. A Training Programme on “Multi Criteria Decision Making & its Industrial Applications” at S. V. National Institute of Technology, Surat, during 4<sup>th</sup> – 5<sup>th</sup> October, 2008
5. A Summer School on “Micro Machining & Micro Fabrication” at IIT, Bombay during 8<sup>th</sup> – 12<sup>th</sup> June 2009

### **EXPERT LECTURE DELIVERED:**

1. An expert lecture delivered on “ Hybrid Machining” A ISTE approved STTP on “Recent Trends in Manufacturing Technology (RTMT-2K6)” 18-23 December, 2006 at SPCE, Visnagar

### **MEMBER SHIP OF PROFESSIONAL BODIES:**

1. Life Member, Indian Society of Technical Education, New Delhi (LM – 46466)
2. Associate, Institute of Engineers (India) (A / 534796/4)
3. Associate Member, The Indian Institute of Welding (BAR/AM/R – 9097)
4. Associate Member, Indian Society for Non Destructive Testing (AM – 3438BR)

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