

Latest Updated April-2015

## Resume of Prof. (Dr.) Vinod Yadava



### 1. Personal and Contact Details:

**Name and Father's Name:** Prof. (Dr.) VINOD YADAVA S/O Late Ram Awadh Yadav

**Date and Place of Birth:** *DOB:* 13.10. 1964; *POB:* Village-Sonda, Post & Dist-Deoria, UP

**Postal and E-Mail Addresses:** **Postal:** Professor, Mechanical Engineering Department, A-26, Staff Colony, Motilal Nehru National Institute of Technology Allahabad, Allahabad-211004

**E Mail:** vinody@mnnit.ac.in & profvinody@gmail.com

**Phone and Fax Numbers:** 05322271626 (R); 8004415863 (M); 8853065463 (M); 91-0532 2545341 (F)

### 2. Teaching and Research Interests:

**Teaching Interest:** *PG Teaching:* Machining Science, Metal Forming, Computer Integrated Manufacturing, Finite Element Method; *UG Teaching:* Manufacturing Science and Technology, Advanced Manufacturing Processes, Tool Engineering, Quality Engineering

**Research Interest:** *Development and Performance Study* of Hybrid/Advanced Multi-Scale Machining Processes; *Modelling and Optimization Study* of Hybrid/Advanced Multi-Scale Machining Processes

### 3. Educational Qualifications:

- ❖ **Ph.D.** (Mechanical Engineering), Indian Institute of Technology Kanpur (2002)
- ❖ **M.Tech.**(Mechanical Engineering), NIT Kurukshetra (Previously REC Kurukshetra) (1991)
- ❖ **B.E** (Mechanical Engineering), Madan Mohan Malviya University of Technology Gorakhpur (Previously Madan Mohan Malviya Engineering College Gorakhpur) (1989)

#### 4. Carrier Distinctions:

- Sustained track record of **Quality Teaching and Excellent Research** in the field of Manufacturing Engineering.
- Associated with **Indigenous Development** of **Hybrid/Unconventional Multi-Scale Machining** Set Up with the assistance of UG, PG and PhD Students
- Published more than **235 research papers** out of which more than **120 are in peer reviewed International Journals** with more than 1350 citations, **h-index of 18** and **i10-index of 27** as reported by Google Scholar.
- Supervision of **21 PhD** theses of research scholars out of which **12 PhDs** have been awarded.
- Supervised more than 47 M. Tech theses. Out of 47 M. Tech theses completed **18 theses** have been published in reputed **International Journals** and **11 theses** in **International Conferences**
- Selected in the Biographies of the **Marquis Who's Who** in the World in the 27th Edition 2010
- Reviewer of more than **20** International Journals and many International Conferences
- Review paper on **Laser Beam Machining-A Review** published in International Journal of Machine Tools and Manufacture (IJMTM), Vol. 48, pp. 609-628 (2008) has been Placed in **Top 25 Hottest Articles** of IJMTM: **2<sup>nd</sup> in 2014, 2<sup>nd</sup> in 2013, 3<sup>rd</sup> in 2012, 4<sup>th</sup> in 2011 and 3<sup>rd</sup> in 2010;** and has also got **Citations more than 250** as per Google Citation Index
- Research paper on **Thermal Stresses Due to Electric Discharge Machining** published in International Journal of Machine Tools Manufacture (IJMTM), Vol. 42, No. 8, pp. 877-888 (2002) has got **Citations more than 125** as per Google Citation Index
- **Eight research papers** have got **Citations more than 50** as per Google Citation Index
- Educational background has been related to **three different level of Institutions** namely State Engineering College for UG, NIT for PG and IIT for PhD.

## 5. Professional and Administrative Experiences:

### **Professional: More than 23 years of Teaching and Research Experience**

- **Professor**, Mechanical Engineering Department, Motilal Nehru National Institute of Technology, Allahabad (UP) from Dec-2007 to till date (**7+ Years**)
- **Associate Professor**, Mechanical Engineering Department, Motilal Nehru National Institute of Technology, Allahabad (UP) from Jan-2006 to Nov-2007 (**2 Years**)
- **Assistant Professor**, Mechanical Engineering Department, Motilal Nehru National Institute of Technology, Allahabad (UP) from Nov-2001 to Dec-2005 (**4 Years**)
- **Senior Lecturer**, Mechanical Engineering Department, Motilal Nehru National Institute of Technology, Allahabad (UP) from Nov-1996 to Oct-2001 (**5 Years**)
- **Lecturer**, Mechanical Engineering Department, Motilal Nehru National Institute of Technology, Allahabad (UP) from Nov-1992 to Oct-1996 (**4 Years**)
- **Lecturer**, Mechanical Engineering Department, Chhotu Ram State College of Engineering, Murthal, Haryana from Sept-1991 to Oct-1992 (**1 Year**)

### **Administrative: More than 23 years of Administrative Experiences**

#### **Institute Level (MNNIT Allahabad)**

- *Dean, Research and Consultancy* (Dec-12 to Dec-14); *Dean, Student Welfare* (Oct-10-Oct-12), *Dean, Academics* (Additional Charge from 27.7.2013 to 31.8.2013)
- *Chief Proctor* (01-Year); *Chief Warden* (3.5 Years), *Warden* (12 years)
- *Chairman-SNFCE* (Jan-15 to Till Date), *Chairman-SDPC* (June-13 to Till Date), *Chairman-SPGC* (01-Year)

#### **Department Level (MNNIT Allahabad)**

- *Superintendent* Mechanical Workshop; *Member* Departmental Doctoral Programme Committee, *Member* Departmental Post Graduate Committee, *Member* Departmental Under Graduate Committee, *Member* Departmental Purchase Committee
- *Officer In charge* of Product Design and Manufacturing Lab, Advanced Machining Lab, Machine Tool Lab, NC Machine Lab

## 6. Organizational and Visit Experiences:

### Organization of Short Term Courses (03)

1. Organised **one week** self-financed short term course on **Micromanufacturing: Materials, Processes and Systems** during June 17-21, 2014 in Mechanical Engineering Department at Motilal Nehru National Institute of Technology Allahabad.
2. Organised **one week** self-financed short term course on **Micromanufacturing: Materials, Processes and Systems** during July 08-12, 2013 in Mechanical Engineering Department at Motilal Nehru National Institute of Technology Allahabad
3. Organised **two weeks** AICTE Sponsored Staff Development Programme on **Advanced Manufacturing Processes** during March 12-23, 2007 in Mechanical Engineering Department at Motilal Nehru National Institute of Technology Allahabad

### Organization of Seminars (03)

1. Worked as **Joint Organizing Secretary**, National Seminar on Emerging Trends in Design Engineering at Motilal Nehru Regional Engineering College Allahabad in **1997**
2. Worked as **Joint Organizing Secretary**, National Seminar on Corporate Strategies in the Changing Business Scenario at Motilal Nehru Regional Engineering College. Allahabad in **1997**
3. Worked as **Joint Organising Secretary**, All India Seminar on Advances in Industrial Engineering and Productivity Improvement Techniques at Motilal Nehru Regional Engineering College Allahabad in **1995**

### International Visits (04)

- **SINGAPORE** during February 26-28, **2011** to present paper in International Conference Manufacturing, Industrial and Mechanical Technology (MIMT-2011);
- **UK (Manchester)** during July 14-16, **2010** to present paper in 36<sup>th</sup> MATADOR-10 International Conference (MATADOR-10);
- **AUSTRALIA (Sydney)** during January 15-19, **2007** for **Technical Training** on “Pneumatic Automation and Systems” at SMC Pneumatics Pty. Ltd., Australia,
- **USA (Chicago)** from November 5-10, **2006** to present paper in 2006 ASME International Mechanical Engineering Congress and Exposition (IMECE-2006)

## 7. Professional and Academic Recognitions:

### Professional Memberships

- Member-**BOG**: MMMEC Gorakhpur (**June-2012 to Nov-2013**)
- Member-**Academic Council**: MMMEC Gorakhpur (**May-2011 to Nov-2013**), KNIT Sultanpur (Jan-15 to Till date)
- Member-**NBA** New Delhi (**many times**)
- Member-**RDC** UPTU Lucknow (**many times**)
- Member-**Selection Committee** at NITs, Technical Universities, UPSC New Delhi and UPPSC Allahabad (**many times**)
- Appointed **PhD Examiner** to NITs and Technical Universities (**many times**)

### Academic Memberships

- Member-**Academic Senate**, MNNIT Allahabad ( Dec-2007 to Till date)
- Member-**Curriculum Development Committee** for UG and PG courses at MNNIT Allahabad (**many times**)
- **Current Member of Editorial Board**: (1) Material Science Research India-An International Peer reviewed Research Journal (2) International Journal of Mechanical Engineering and Robotics Research (3) Indo-American Journal of Mechanical Engineering (4) International Journal of Mechanical Engineering
- **Ex-Member of Editorial Board**: (1) International Journal of Manufacturing Technology and Industrial Engineering (2) Intelligent Control and Automation Journal
- **Member of National Advisory Board**: International All India Manufacturing Technology, Design and Research (IAIMTDR) Conference: *2010 at AU Vishakhapatnam, 2012 at JU Kolkata, and 2014 at IIT Guahati*; International Conference on Advances in Mechanical and Building Sciences (ICAMB): 2009 at VIT University Vellore

## 8. Reviewership and Speakership Recognitions:

### Reviewership

- **International Journals (22):** (1) International Journal of Advanced Manufacturing Technology (2) International Journal of Machine Tools Manufacture (3) Machining Science and Technology-An International Journal (4) International Journal of Mechanical Science (5) International Journal of Manufacturing Technology and Management (6) Journal of Materials Processing Technology (7) International Journal of Abrasive Technology(8) International Journal of Thermal Sciences(9) International Journal of Design Engineering(10) International Journal of Precision Engineering and Manufacturing (11) Journal of Zhejiang University Science (12) Optics and Laser Technology (13) Optics and Laser in Engineering (14) Chinese Optics Letters (15) Surface and Coating Technology (16) Journal of Mechanical Engineering (17) Journal of Manufacturing Processes (18) Multidiscipline Modeling in Materials and Structures (19) Frontiers of Mechanical Engineering (20) International Journal of Mechanical and Materials Engineering (21) International Journal of Engineering Science and Technology (22) Advances in Mechanical Engineering
- **International and National Conferences:** Many

### Speakership

1. Delivered Invited speech on Availability Analysis of Coal Handling System in Thermal Power Plants in STC on Reliability, Availability And Maintainability Engineering In Manufacturing at IIT Kanpur (1997)
2. Delivered Invited speech on Maintenance Planning of Coal Handling System in Thermal Power Plants in STC on Computer Aided Maintenance at IIT Delhi (1997)
3. Delivered Invited speech on Micro-Electro-Discharge Machining in SERC School on Precision Engineering at IIT Kanpur (2002)
4. Delivered Invited speech on Finite Element Analysis of Electro-Discharge Diamond Grinding in SERC School on QIP Short Term Course on Advanced Machining Processes at IIT Kanpur (2004)
5. Delivered Invited speech on Electro-Chemical Spark Micromachining in QIP Short Term Course on Micromachining at IIT Kanpur (2004)
6. Delivered Invited speech on Finite Element Analysis of Electro-Discharge Micromachining in QIP Short Term Course on AICTE-BARC sponsored STC on Micromachining at IIT Kanpur (2007)
7. Delivered Invited speech on Machining of Composite using Abrasive Water Jet and Laser Beam in STC on Composite Materials and Processing at MMMEC Gorakhpur (2008)
8. Delivered Invited speech on Electro-Chemical Spark Micromachining in BARC & AICTE Sponsored STC on Micromachining at IIT Kanpur (2008)
9. Delivered **Keynote speech** on Electrical Discharge Micromachining in National Conference on Emerging Trends in Mechanical Engineering at MMMEC Gorakhpur (2009)
10. Delivered Invited speech on Modelling and Analysis of Electro-Discharge Micromachining in DST & BARC sponsored STC on Micromachining at IIT Kanpur (2009)
11. Delivered Invited speech on Modelling and Analysis of Electro-Chemical Spark Micromachining in BARC sponsored STC on Micromanufacturing at IIT Kanpur (2010)
12. Delivered Invited speech on Electro-Discharge Micromachining in BARC & QIP sponsored STC on Micromanufacturing at IIT Kanpur (2011)
13. Delivered **Keynote speech** on Laser Beam Micromachining in National Conference on Advances in Manufacturing Technology at NITTTR Chandigarh (2012)
14. Delivered Invited speech on Electro-Chemical Spark Micromachining in BARC & QIP sponsored STC on Micromanufacturing at IIT Kanpur (2012)
15. Delivered Invited speech on Introduction to Micromanufacturing in self-financed STC on Micromanufacturing: Materials, Processes and Systems at MNNIT Allahabad (2013)
16. Delivered Invited speech on Laser Beam Micromachining in National Symposium on Miniature Manufacturing in 21st century at IIT (BHU) Varanasi (2013)
17. Delivered **Keynote speech** on Electro-Chemical Spark Micromachining in National Conference on Advances in Manufacturing Technology at NITTTR Chandigarh (2013)
18. Delivered Invited speech on Introduction to Micromanufacturing in self-financed STC on Micromanufacturing: Materials, Processes and Systems at MNNIT Allahabad (2014)
19. Delivered Invited speech on Thermal Analysis of Thermal Erosion Micromachining Processes in STC on Micromanufacturing at IIT Kanpur (2014)
20. Delivered Invited speech on Hybrid Modelling of Hybrid Machining of Hybrid Materials in International All India Manufacturing Technology, Design and Research Conference at IIT Guwahati (2014)
21. Delivered **Keynote speech** on Hybrid Machining Processes: Developments and Research in 1<sup>st</sup> International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2015) at ITS Engineering College, Greater Noida (2015)

## 9. Book Chapters:

1. Written a book chapter on **FEM based thermal modelling of Micro Electrical Discharge Machining Process for the Prediction of Performance Characteristics** in **ADVANCEMENT AND CURRENT TRENDS IN INDUSTRIAL, MECHANICAL AND PRODUCTION ENGINEERING** by Excellent Publishing House, Kisan Gargh, Basant Kunj, New Delhi-2014; ISBN: 978-93-84935-05-4
2. Written a book chapter on **Electro-Chemical Spark Micro-Machining** in **INTRODUCTION TO MICROMACHINING** by Allied Publisher Pvt. Ltd., New Delhi-2009; ISBN:978-81-7319-915-8
3. Written a book chapter on **Micro-Electro-Discharge Machining** in **PRECISION ENGINEERING** published by Allied Publisher Pvt. Ltd., New Delhi-2002; ISBN: 81-7764-328-2.
4. Written a book chapter on **Availability Analysis of Coal Handling System in Thermal Power Plants** in **RELIABILITY, AVAILABILITY AND MAINTAINABILITY ENGINEERING IN MANUFACTURING Vol. II** by Allied Publisher Pvt. Ltd., New Delhi-1997; ISBN: 81-7023-729-7.

## 10. Laboratory and Setup Development:

### Laboratory Development:

- Developed **Advanced Machining Lab** equipped with Laser Machine and EDM Machine at MNNIT Allahabad
- Renovated **Machine Tool Lab** at MNNIT Allahabad
- Developed **Product Design and Manufacturing Lab** at MNNIT Allahabad

### Set-Up Development:

- Associated with **In-house Development** of many **New Hybrid Machining Setup** such as Electrical Discharge Diamond Cut-off Grinding , Electrical Discharge Diamond Face Grinding, Electrical Discharge Diamond Surface Grinding, Sinking-Electro-Chemical Spark Machining, Wire-Electro-Chemical Spark Machining, Milling-Electro-Chemical Spark Machining and Electrolytic Magnetic Abrasive Machining
- Associated with **In-house Development** of many **New Unconventional Micromachining Setup** such as Sinking Electro-Discharge Micro Machining and Sinking Electro-Chemical Micro Machining
- Associated with **In-house Development** of FEM based software's for the Simulation and Optimization of various **Manufacturing Processes** such as EDM, ECM,USM,LBC,LBPD,LBW, LBB, EDDG, ECSM,ECSMW etc



## 11. Research Projects: 04-Completed + 01-Running

1. Principal Coordinator, **TEQIP-I Sponsored Project** for development of Advanced **Machining Lab** equipped with **Laser Machine** and **EDM Machine**. Duration 2003-2005 (25 lacs) **(Completed)**
2. Principal Investigator, **DST sponsored project** on “Experimental and Numerical Study of Nd: YAG Laser Beam Cutting of Thin Sheet”. Duration 2007-2010 (25.7 lacs) **(Completed)**
3. Principal Investigator, **CSIR sponsored project** on “Experimental and Numerical Study of Traveling Wire-Electro-Chemical Spark Machining of Advanced Engineering Material”. Duration 2010-2013 (10 lacs) **(Completed)**
4. Principal Investigator, **ARDB sponsored project** on “Electro-Discharge Diamond Grinding-Development and Optimization”. Duration 2011-2014 (25 lacs) **(Completed)**
5. Principal Investigator, **CSIR sponsored project** on “Cylindrical Electrolytic Magnetic Abrasive Machining (C-EMAM): Development, Modeling and Optimization”. Duration Jan-2014-2017 (18 lacs) **(Running)**

## 12. Research Supervision:

### • Supervision of Ph.D. Theses: Awarded (12)

1. **Avanish Kumar Dubey** on Experimental Modelling and Multi-Objective Optimization of Laser Beam Cutting of Thin Sheets in **April-2008**
2. **Mohan Charan Panda** on Thermal Finite Element based Intelligent Modeling and Optimization of Electro-Chemical Spark Machining Process in **Dec-2010**
3. **Gyanendra Kumar Singh** on Electro-Discharge Diamond Face Grinding: Development, Modeling and Optimization in **Oct-2011** (*Co-Supervisor: Prof. Raghuvir Kumar*)
4. **Amit Sharma** on Modelling and Optimization Studies of Nd: YAG Laser Beam Straight and Profile Cutting of Difficult to Cut Thin Sheet Materials in **Oct-2012**
5. **Audhesh Narayan** on Thermal Finite Element Analysis and Optimization of Deep Surface Grinding Processes in **Nov-2012**
6. **Sanjay Mishra** on Finite Element based Simulation and Optimization of Nd: YAG Laser Beam Percussion Drilling of Thin Sheet Metals in **May-2013**
7. **Sanjeev Kumar Singh Yadav** on Modelling and Multi-Objective Optimization of Electrical Discharge Diamond Cut-off Grinding Process in **July-2013**
8. **Shyam Sunder Agarwal** on Some Investigations on Surface-Electrical Discharge Diamond Grinding of Metal Matrix Composites in **August-2013**
9. **K.B. Judal** on Some Investigations into Cylindrical Electrochemical Magnetic Abrasive Machining Process in **Sept-2013**
10. **Ravindra Nath Yadav** on Some Investigations on Slotted-Electrical Discharge Diamond Grinding in **Feb-2014**
11. **Rajesh Kumar Porwal** on Modelling and Optimization of Micro Electrical Discharge Machining of Super Alloys in **May-2014**
12. **Basant Kumar Bhuyan** on Travelling Wire Electro-Chemical Spark Machining-Development, Modelling and Optimization in **June-2014**



• **Supervision of Ph.D. Theses: Continuing (06)**

13. **Ajay Suryavansi**, In the area of Electro-Discharge Micro Machining: Thermal Finite Element Modelling, Simulation and Optimization (*Co-Supervisor: Dr Audhesh Narayan*)
14. **Ram Singar Yadav**, In the area of Variants of Electrical Discharge Diamond Grinding: Experimental Study, Modelling and Optimization
15. **Vevek Kumar**, In the area of Variants of Electro-Chemical Spark Machining (ECSM): Development and Performance Study
16. **Param Singh**, In the area of Vibration Assisted Electrical Discharge Machining: Experimental Study, Modelling and Optimization (*Co-Supervisor: Dr Audhesh Narayan*)
17. **Pallvita Yadav**, In the area of Travelling Wire Electro-Chemical Spark Machining of Nanocomposites: Experimental Study, Modelling and Optimization (*Co-Supervisor: Dr Audhesh Narayan*)
18. **Amit Singh**, In the area of Electrolytic Magnetic Abrasive Machining: Development, Experimental Modelling and Optimization (*Co-Supervisor: Dr V.R. Komma*)

**Supervision of M. Tech Theses: 47 (Awarded-45 + Under Progress-02) (Published in 17-IJ and 11-IC)**

1. Devendra Kumar (1997) Analysis of Strip Rolling Process taking Roll Flattening and Strain Hardening into Account ([Published in Proc. of National Seminar on Emerging Trends in Design Engineering-1997 at IE Allahabad](#))
2. R.Edison Chandra Seelan (1997) FBCAPP-Feature Based Computer Aided Process Planning for EDM Operations ([Published in Proc. of National Seminar on Emerging Trends in Design Engineering-1997 at IE Allahabad](#))
3. Sarvesh Tomar (1998) Thermal Modelling and Simulation of Abrasive Electro-Discharge Grinding (AEDG) Process ([Given base for PhD](#))
4. Rahul Mullik (2003) Finite Element Analysis of Electro-Chemical Spark Machining ([Published in International Journal of Manufacturing Technology and Management-2005](#))
5. Sanjeev Kumar Singh Yadav (2004) Design, Fabrication and Experimental Study of Electro-Discharge Diamond Grinding ([Published in International Journal of Advanced Manufacturing Technology-2008](#))
6. Gurvinder Kumar (2004) Thermal Analysis of Plane Magnetic Abrasive Finishing using FEM ([Published in International Journal of Advanced Manufacturing Technology-2009](#))
7. Wani Amit (2004) Finite Element Simulation of Magnetic Abrasive Flow Machining ([Published in Journal of Materials Processing Technology-2007](#))
8. Patil Makrand Ramu (2004) Finite Element Analysis of Thermal Stresses in Selective Laser Sintering ([Published in International Journal of Manufacturing Technology and Management-2008](#))
9. Patil Sandeep Sakharam (2004) Design of Tool for Electro-Chemical Machining Using FEM ([Published in International Journal of Design Engineering-2007](#))
10. Anirudha Deoghare (2004) Design of Horn for Ultrasonic Machining with Rotation ([Published in International Journal of Advanced Manufacturing Technology-2008](#))
11. Vikas Kumar Singh (2004) Thermal Analysis of Electro-Chemical Discharge Micro-Welding Using FEM ([Published in Proc. of National Conference IPROMM-2005 at IIT Kharagpur](#))
12. Bhodwe Kiran Laxman (2004) Computational Evaluation of Metal Removal Rate during Electro-Chemical Spark Machining ([Published in International Journal of Machine Tools Manufacture-2006](#))
13. Patil Rahul B. (2005) Temperature Distribution in Metallic Layer during Selective Laser Sintering using FEM ([Published in International Journal of Machine Tools Manufacture-2007](#))
14. Kapare Ankush (2005) Finite Element Analysis of Thermal Stresses in Electro-Chemical Discharge Micro-Welding ([Published in International Journal of Nanomanufacturing-2009](#))
15. Katheresan G. (2005) Thermal Analysis of Traveling Wire-Electro-Chemical Spark Machining (TW-ECSM) using FEM ([Published in International Journal of Advanced Manufacturing Technology-2009](#))
16. Amar Dhumal (2005) Optimization of Abrasive Water Jet Cutting Parameters using Neural Network and Genetic Algorithms
17. Lakshmi Narayan V. (2005) Analysis and Optimization Electro-Discharge Diamond Grinding using Taguchi Method ([Published in International Journal of Advanced Manufacturing Technology-2008](#))

18. Audhesh Narayan (2005) Experimental and Finite Element Predictions of Material Removal Rate in Electro-Discharge Machining (Published in Proceedings of International Conference on Manufacturing Research at De Montfort University, Leicester UK, Sep-2007)
19. Atul Khatri (2006) Modeling and Simulation for the prediction of surface Roughness in Plane Magnetic Abrasive Finishing (MAF) using FEM (Published in International Journal of Industrial Systems Engineering-2008)
20. Krishan Kishore (2006) Development of Software for Parameter Design of Laser Beam Cutting Process
21. Parikshit Sharma (2006) Thermal Analysis of Gas Tungsten Arc Welding (GTAW) using FEM
22. Prabhat Kumar (2006) Manufacturing Study and Proposed Process Planning for Manufacturing of Hemi-Head of High Pressure Heater in Steam Power Plant
23. Rajeev Kumar (2007) Finite Element Analysis of Sinking Micro Electro-Discharge Machining (Published in International Journal of Nanoparticles-2009)
24. Rajan Prakash (2007) Finite Element Analysis of High Efficiency Deep Grinding (Published in International Journal of Abrasive Technology-2010)
25. B. Chandra Shekhar (2008) Experimental Study on Electrical Discharge Face Grinding (EDFG) (Published in Materials and Manufacturing Processes-2010)
26. Roomas Singh (2008) 3D Finite Element Thermal Analysis of Laser Beam Cutting Process
27. S. Raghvendra Rao (2008) Optimization of Nd: YAG Laser Beam Cutting of Ni-based Superalloy Thin Sheet (Published in Optics and Laser Technology-2009 and IAIMTDR-2008)
28. Shailendra Dyal (2009) Intelligent Modelling and Simulation of Electro-Discharge Machining Process (Published in Proc. of NC-RAMTM-2010 at Jadavpur University Kolkata)
29. Mohd. Salim (2009) 3D Transient Finite Element Thermal Analysis of Laser Beam Drilling Process (Published in Proc. Of IAIMTDR-2010 at Andhra University College of Engineering Visakhapatnam)
30. M. Nand Kumar (2009) 3D Transient Finite Element Thermal Analysis of Laser Beam Spot Welding Process
31. Smita Gupta (2010) Finite Element Analysis of Laser Beam Bending in Ultra Thin Aluminium Foil (Published in Proc. of COPEN- 2011)
32. Pawan Kumar Yadav (2010) Thermal Analysis of Friction Stir Welding of Aluminium alloy thin sheet using Finite Element Method
33. Lokesh Mishra (2011) Development and Experimental Study of Plane-Electrolytic Magnetic Abrasive Finishing Process (Published in Proc. of IAIMTDR-2012 at JU Kolkata)
34. Mukesh Kumar (2011) CAD and Optimization of Horn used in Rotary Ultrasonic Machining
35. Pratibha Sinha (2011) Modeling and Optimization of Electrical Discharge Machining
36. Dayanidhi Kumar Pathak (2012), Experimental and Computational Study of Cylindrical-Magnetic Abrasive Finishing Process (Published in International Journal of Precision Technology-2013 and Proc. of NC-AMT-2012 at NITTTR Chandigarh and IAIMTDR-2012 at JU Kolkata)
37. S.V. Vishvanath (2012), Development and Experimental Study of Milling Electro-Chemical Spark Machining (Published in Proc. of NC-AMT-2012 at NITTTR Chandigarh)
38. P.S. Balaji (2012), Finite Element Analysis of Electro-Discharge Diamond Surface Grinding (Published in Elsevier Journal Simulation Modelling: Practice and Theory-2013 and Proc. of NC-AMT-2012 at NITTTR Chandigarh and IAIMTDR-2012 at JU Kolkata)
39. Anjani Kumar Singh (2013) Parametric Studies of Sinking Electrical Discharge Machining of Metal Matrix Composites
40. Sanjay Singh Patel (2013) Parametric Studies of Face-Electrical Discharge Grinding of Metal Matrix Composites (Published in Proc. of IAIMTDR-2014 at IIT Guwahati)
41. Gyan Singh (2013) Parametric Studies of Electrical Discharge Drilling of Metal Matrix Composites (Published in Proc. Of ARIMPIE-2015 at ITS Engineering College, Greater Noida)
42. Nitish Srivastava (2013) Simulation of Electrical Discharge Machining Accounting Randomness of Spark Generation
43. Pallvita Yadav (2014) Determination of Bend Angle during Laser Beam Bending using FEM
44. Mahendra Singh (2014): Modelling and Optimization of Travelling Wire Electro-Chemical Spark Machining of Epoxy Composite
45. Ashok Yadav (2014): Finite Element Stress Analysis of Mechanical Transformer used in Sinking Ultrasonic Assisted Electric Discharge Machine
46. Afsana (Under Progress): Finite Element Analysis of Laser Beam Percussion Drilling of Multi-Layer Sheet (Published in Proc. Of ARIMPIE-2015 at ITS Engineering College, Greater Noida)
47. Omprakash Gupta (Under Progress): Development and Performance Study of Drilling Electro-Chemical Spark Micromachining

## 13. Research Publications: 239

**Journals-----126** (International Journals-121 + National Journals-05)

**Conferences-113** (International Conferences-73+National Conferences-40)

Citation Indices: Citations-more than 1375      h-index-18      i10 index-27

Highest Citation of a Research Paper: More than 250

Papers having Citations More than Hundred: 02

Papers having Citations More than Fifty: 08

### (A) PEER REVIEWED INTERNATIONAL JOURNALS (121) (59-SCI Journals)

#### Up to 2006 (08)

1. **Yadava, V.;** Jain, V.K.; Dixit, P.M. Temperature Distribution during Electro-Discharge Abrasive Grinding, Machining Science and Technology-An International Journal, Vol. 6, No. 1, pp. 97-127(2002) (SCIE Journal)
2. **Yadava, V.;** Jain, V.K.; Dixit, P.M., Thermal Stresses Due to Electric Discharge Machining, International Journal of Machine Tools Manufacture, Vol. 42, No. 8, pp. 877-888 (2002) (SCI Journal) [More than 130 Citations as per Google Citation Index]
3. **Yadava V.,** Jain V.K., and Dixit, P.M., Theoretical Analysis of Thermal Stresses in Electro-Discharge Diamond Grinding, Machining Science and Technology-An International Journal, Vol. 8, No. 1, pp. 119-140 (2004) (SCI Journal)
4. **Yadava, V.;** Jain, V.K.; Dixit, P.M., Parametric Study of Temperature Distribution in Electro-Discharge Diamond Grinding, Materials and Manufacturing Processes, Vol. 19, No. 6, pp. 1-13 (2004) (SCIE Journal)
5. **Yadava, V.;** Jain, V.K.; Dixit, P.M. Temperature Determination in the Workpiece during Diamond Surface Grinding: FEM Approach, International Journal of Manufacturing Technology, Vol. 1, No. 1, pp. 29-34 (2005)
6. **Yadava V.,** Jain V.K., and Dixit, P.M., Temperature Distribution in the Workpiece due to Electro-Discharge Diamond Surface Grinding using FEM, International Journal of Manufacturing Technology and Management Vol. 7, No. 2/3/4, pp. 246-267 (2005)
7. Rahul S. Mullik and **Vinod Yadava,** Thermal Stresses during Electro-Chemical Spark Machining using FEM, International Journal of Manufacturing Technology and Management , Vol. 7, No. (2/3/4), pp. 287-307(2005)
8. Kiran L. Bhondwe, **Vinod Yadava,** and G. Kathiresan, Finite element prediction of material removal rate due to electro-chemical spark machining, International Journal of Machine Tools Manufacture, Vol. 46, pp. 1699-1706 (2006) (SCI Journal)

**2007 (04)**

9. Patil Rahul B., and **Vinod Yadava**, Finite Element Analysis of Temperature Distribution in Single Metallic Powder Layer during Metal Laser Sintering , International Journal of Machine Tools Manufacture, Vol. 47, No. (7-8), pp. 1069-1080 (2007) (SCI Journal)
10. Amit M. Wani, **Vinod Yadava** and Atul Khatri, Simulation for the Prediction of Surface Roughness in Magnetic Abrasive Flow Finishing (MAFF), Journal of Materials Processing Technology, Vol. 190, No. (1-3), pp. 282-290 (2007) (SCIE Journal)
11. Patil Sandeep Sakharam and **Vinod Yadava**, Finite Element Prediction of Tool Shapes in Electro-Chemical Machining, International Journal of Design Engineering, Vol. 1, No. 1, pp. 21-40 (2007)
12. Avanish Kumar Dubey and **Vinod Yadava**, Simultaneous Optimization of Multiple Quality Characteristics in Laser Beam Cutting using Taguchi Method, International Journal of Precision Engineering and Manufacturing, Vol. 8, No.4, pp. 10-15 (2007) (SCIE Journal)

**2008 (11)**

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