

## *Resume of Prof. Pradeep Kumar*

**Dean, Finance & Planning and  
Professor,  
Department of Mechanical &  
Industrial Engineering  
Indian Institute of Technology, Roorkee  
Rorokee 247667, INDIA**



**Joint Professor  
Deptt. of Management Studies  
IIT Roorkee  
Roorkee 247667  
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Prof. Pradeep Kumar, Indian Institute of Technology Roorkee has had an outstanding academic record and is a product of University of Roorkee (Now IIT Roorkee) throughout. He had obtained Bachelor of Engineering in Industrial Engineering in 1982 and Master of Engineering in Production Engineering (Gold Medalist) in 1989. He had received Ph.D. in 1994 in Industrial and Production Engineering. He has earned all the above degrees from University of Roorkee (Now, IIT Roorkee). During 1996, he was a Visiting Assistant Professor in the department of Industrial and Manufacturing System Engineering, West Virginia University, U.S.A. He had also served the Department of Industrial and Manufacturing Engineering, Wayne State University, U.S.A. as a Research Associate during 1998-1999. He had been a Visiting Professor in the Department of Industrial System Engineering, at AIT Bangkok, (2010).

Prof. Pradeep Kumar has more than 24 years of experience in teaching, research, consultancy and Industry at IIT Roorkee, NIT Kurukshetra, West Virginia University U.S.A, Wayne State University U.S.A, AIT Bangkok, Steel Authority of India Limited (SAIL), and DRF Industries. He had taught a wide spectrum of courses related to Industrial Engineering & Production Engineering He has supervised 17 Ph.D. theses, 8 Ph. D theses are in progress; 58 M.Tech dissertations, 5 in progress; 47 M.Tech projects and 46 B.Tech projects. He has published / presented 336 research papers in International and National Journals (160); Proceedings of International and National Conferences (176). He has completed 31 consultancy projects of various organizations and 10 sponsored research projects in India and 1 sponsored project in U.S.A. His research interests include Supply Chain Management (SCM), Advanced Manufacturing Processes; Microwave Joining of Metals, Metal Casting; Industrial Engineering; Quality Engineering; Robust Design Methodologies, Reliability Engineering; and Production & Operations Management

Prof. Pradeep Kumar has received a number of prizes and honors. He was honored with an Outstanding Teacher Award at IIT Roorkee two times, in the year, 2005, and 2009. He has been adjudged as Star Performer during the years 2004, 2005, 2006, 2007 and 2008. He has received 3 best paper/case studies prizes for his papers published in Journals and conference proceedings. He has secured Gold Medal for obtaining the highest marks in Master of Engineering. He has organized 4 national and 1 international conferences at IIT Roorkee and has been honored to be a member in the advisory board of many professional societies and editorial member of many journal of repute. He is a fellow of World Confederation of Productivity Sciences, Canada. Prof. Pradeep Kumar has wide administrative experience as Dean, Finance & Planning (2010-date), Head Mechanical & Industrial Engineering (2007-2009), Chairman, Joint Entrance Examination (JEE) 2009, Organizing Vice Chairman JEE (2008), Coordinator, Educational Technology Cell (2004-2005), Chairman Graduate Aptitude Test in Engineering (GATE, 2006, 2007) and Vice Chairman GATE (2005), Vice Chairman PG Admission (2005), Coordinator Workshop, Coordinator of Production and Industrial Engineering, Warden of Students Hostels and many other responsibilities both at department as well as at Institute level.

## *Career Profile*

- Outstanding academic record with top ranks. Throughout a product of University of Roorkee (now I.I.T. Roorkee). [B.E. (Hons.); M.E. Gold Medalist; Ph.D].
- Joint Professor in the Department of Management Studies, IIT Roorkee
- 24 years of experience in teaching, research, consultancy and Industry at IIT Roorkee, NIT Kurukshetra, India, West Virginia University, U.S.A, Wayne State University, U.S.A, AIT Bangkok, SAIL, and DRF Industries.
- Fellow of World Confederation of Productivity Sciences, Canada
- Honored with Outstanding Teacher Award (twice) at IIT Roorkee – 2005, 2009
- Has wide administrative experience as Dean, Finance & Planning (2010-date), Head-Mechanical & Industrial Engineering (2007 – 2009), Chairman - Joint Entrance Examination (JEE) 2009, Organizing Vice Chairman - Joint Entrance Examination (JEE) 2008, Coordinator-Educational Technology Cell (2004-05), Organizing Chairman - Joint Management Entrance Test (JMET 2007), Chairman-Graduate Aptitude Test in Engineering (GATE) (2006, 2007), Chairman-Joint Admission Test for M.Sc (JAM 2006, 2007) and Vice Chairman-GATE (2005), Vice Chairman-PG Admission (2005), Coordinator Workshop, Coordinator of Production and Industrial Engineering, Warden of Students Hostels.
- Organized 4 National and 1 International conference / Workshop at IIT Roorkee
- Guided 17 Ph.D. theses, 8 Ph.D. theses are in progress, 58 M.Tech. Dissertations, 5 in progress, 47 M. Tech projects and 46 B.Tech Projects.
- Published / presented 336 research papers in International and National Journals (160); Proceedings of International and National Conferences (176)
- Wrote Nine Chapters in a book entitled “FE:PM Industrial Engineering” Publisher Research and Education Association U.S.A
- Wrote one chapter entitled “A Fuzzy AHP model for 3PL selection in Lead Logistics Provider scenarios. Sarthy. P. (Ed.), Hershey, Pennsylvania, USA, IGI Global Publications. (In Press)
- Organized 17 short term courses.
- Lectured in more than 20 short term courses in India and abroad.
- Offered Consultancy to various organizations such as ACC, Eicher, BHEL, IRRI, UP Steels, MPSEB, Small Industries Service Institute, etc.
- Handled 31 consultancy projects of various organizations and 10 sponsored research projects in India. 1 sponsored project in U.S.A
- Won 3 best paper awards / medals.
- Inducted into “International Who’s Who of Professionals” for the accomplishments in Engineering Education & Research by Who’s Who Historical Society, USA, 1999
- Editorial Board Member of The Open Operational Research Journal, Bentham Science Publishers

- Editorial Board Member of International Journal of Advanced Operations Management (IJAOM), Inderscience, ISSN (Online): 1758-9398 - ISSN (Print): 1758-938X
- Guest Editor, International Journal of Services Technology and Management (IJSTM) for the Special Issue on: Role of 3PL / 4PL in Logistics and Supply chain Management.
- Editorial Board Member of International Journal of Business Performance and Supply Chain Modeling (IJBPSM), Inderscience, ISSN (Online): 1758-941X - ISSN (Print): 1758-9401
- Editorial Board Member of International Journal of Electronic Transport (IJET) ISSN (Online): 1742-6960 - ISSN (Print): 1742-6952
- Reviewed three chapters of The Handbook of Technology Management to be published by Wiley,
- Reviewer of ASME, Inderscience, Elsevier Journals, IJMTM, Computers and Operations Research
- Visited USA, UK, Holland, Sweden, Bangkok and Mongolia for professional/academic interaction

### ***Academic Qualifications***

- Ph.D. in Industrial & Production Engineering, 1993, Indian Institute of Technology Roorkee (Erstwhile University of Roorkee)
- M.E, Master of Engineering in Production Engineering, 1989, Indian Institute of Technology Roorkee (Erstwhile University of Roorkee), Gold Medalist
- B.E, Bachelor of Engineering in Industrial Engineering, 1982, Indian Institute of Technology Roorkee (Erstwhile University of Roorkee)

### ***Membership of Editorial Boards***

- Editorial Board Member International Journal of Advanced Operations Management, Inderscience, ISSN (Online): 1758-9398 - ISSN (Print): 1758-938X
- Guest Editor, International Journal of Services Technology and Management (IJSTM) for the Special Issue on: Role of 3PL / 4PL in Logistics and Supply chain Management.
- Editorial Board Member of The Open Operational Research Journal, Bentham Science Publishers
- Editorial Board Member of International Journal of Business Performance and Supply Chain Modeling (IJBPSM), Inderscience, ISSN (Online): 1758-941X - ISSN (Print): 1758-9401
- Editorial Board Member of International Journal of Electronic Transport (IJET) Inderscience, ISSN (Online): 1742-6960 - ISSN (Print): 1742-6952

## ***Contributions to Professional Societies/Technical Committees***

- Member, Academic Council, Uttar Pradesh Technical University, Lucknow, India
- Member, RDC, Punjab University, Chandigarh, India
- Member, Board of Studies, Maullana University, Ambala, Haryana, India
- Member, Board of Studies, Uttar Pradesh Technical University, Lucknow, India
- Government Nominee for the selections of faculty at various Engineering colleges Under U.P. Technical University, Lucknow
- Served as a Member of National Steering Committee of the Conference on Recent Developments in Mechanical Engineering (NCME – 2008), Organized by Thapar University, November 14-15, 2008
- Served as a Member of National Advisory Committee 6th International Conference on Supply Chain Management & Information Systems (SCMIS-2008), Organized by NIT Tiruchirappali in association with University of East London, UK,
- Served as a Member of National Advisory Committee of the Recent Developments in Manufacturing and Quality Management (RDMQM-2007)”, Organized by Punjab Engineering College, Chandigarh, October 2007
- Served as a Member of National Advisory Committee of the All India Seminar on Challenges for Quality and Reliability, Organized jointly by National Institute of Technology, Rourkela and the Institution of Engineers (India), Rourkela Local Centre, November, 2006.
- Served as a Member of National Advisory Board, Global Conference on Production and Industrial Engineering” , Organized Jointly by National Institute of Technology Jalandhar and Global Institute of Flexible Systems Management, New Delhi, December, 2006
- Convener and Member of Steering Committee, IMPULSE 2001, at Indian Institute of Technology (erstwhile University of Roorkee), February 2001
- Convener and Member of Steering Committee, IMPULSE 2000, at Indian Institute of Technology (erstwhile University of Roorkee), March 2000
- Organizing Committee Member, XVI National Convention of Mechanical Engineers, Jointly Organized by IIT Roorkee, and the Institution of Engineers, Local Centre, 2000
- Jt. Organizing Secretary and Member of Steering Committee, International Conference on Advances in Mechanical & Industrial Engineering, Indian Institute of Technology (erstwhile University of Roorkee), India, February, 1997
- Jt. Organizing Secretary, Seminar Cum Workshop on Total Quality Management in Technical Education, Indian Institute of Technology (erstwhile University of Roorkee), India, 1995.
- Jt. Organizing Secretary and Member of Steering Committee, IX ISME Conference, Indian Institute of Technology (erstwhile University of Roorkee), India, November, 1994.

## ***Expertise & Research Areas***

- Industrial Engineering
- Supply Chain Management (SCM)
- Quality Engineering : Robust Design Methodologies
- Inventory and Logistics Management
- Project Management
- Production & Operations Management
- Total Quality Management (TQM)
- Advanced Manufacturing Processes
- Microwave Joining of Metals
- Metal Casting

## ***Administrative Responsibilities***

### **Administrative Responsibilities at the Institute level (IIT Roorkee)**

1. Dean, Finance & Planning (2010-date)
2. Chairman, Joint Entrance Examination (JEE) - 2009
3. Organizing Vice Chairman, Joint Entrance Examination (JEE) - 2008
4. Chairman, GATE 2007, JAM 2007
5. Organizing Chairman, Joint Management Entrance Test - 2007
6. Member Professor Committee, Department of Management Studies, 2004-date
7. Member Professor Committee, Department of Architecture & Planning, 2008-date
8. Member, Board of Sponsored Research and Industrial Consultancy 2006-2008
9. Member, Software Purchase Committee, 2003 – 2007
10. Chairman, GATE 2006, JAM 2006
11. Coordinator, Educational Technology Cell, 2004 – 2005
12. Vice Chairman, GATE 2005
13. Vice Chairman, PG Admissions 2005
14. Member IPR Cell. 2004-2006
15. Warden, Students Hostel, Jawahar Bhawan 2001 – 2003
16. Staff Advisor Sports (Stores), June 2000 – June 2004
17. Warden, Students Hostel, Ganga Bhawan, Feb. 2001 – October 2001
18. Officer in Charge, Transport, 1996 – 1998
19. Assistant Warden, Students Hostel, Ravindra Bhawan, 1990 – 1993

### **Administrative Responsibilities Shared at the Department level (IIT Roorkee)**

1. Head, Department of Mechanical & Industrial Engineering (Jan 2007- 2009)
2. Chairman, Finance, (2010-date)
3. Chairman, Department Professorial Committee, (Jan 2007- 2009)
4. Member, Department Research Committee (2002 – 2004, 2006 - 2009)
5. Coordinator, Workshop ( 2005 – 2007)
6. Member Finance Purchase Committee ( 2004 – 2009)
7. Officer-in-charge, Maintenance, Production and Workshop (2001 – 2006)
8. Officer-in-charge, Advanced Manufacturing Laboratory ( 2004 – date)
9. Officer-in-charge, Foundry Engineering and Heat Treatment Laboratory ( 1994 – 2006)
10. Officer-in-charge, NDT Laboratory ( 2005 – 2006)
11. Officer-in-charge, Weld Testing Laboratory ( 2002 – 2006)
12. Coordinator, Production and Industrial Engineering Section (2001-2004)
13. Officer-in-charge, Machine Tool Laboratory ( 2000 – 2001)
14. Officer-in-charge, Computer Aided Engineering Laboratory ( 1996 – 1998)

### ***Experience***

24 years of experience in teaching, research, consultancy and Industry as follows:

#### **Academics**

- Professor, Department of Mechanical and Industrial Engineering, IIT Roorkee, from October 22, 2003 to Date
- Joint Professor, Department of Management Studies, IIT Roorkee, from June 2006 to June, 2009
- Visiting Professor, Department of Industrial and System Engineering, AIT Bangkok, Thailand, January 10, 2010 to April 24, 2010
- Associate Professor, Department of Mechanical and Industrial Engineering, IIT Roorkee, from June 25, 2001 to October 21, 2003
- Research Associate, Department of Industrial and Manufacturing Engineering, Wayne State University, Detroit, MI, U.S.A, June 14, 1998 – June 15, 1999
- Visiting Assistant Professor, Department of Industrial and Management System, West Virginia University, Morgantown, WV, U.S.A, May 1, 1996 to June 30, 1996
- Assistant Professor, Department of Mechanical and Industrial Engineering, IIT Roorkee, from April 9, 1996 to June 24, 2001
- Lecturer, Department of Mechanical and Industrial Engineering, IIT Roorkee, from January 2, 1990 to April 8, 1996
- Lecturer, Department of Mechanical Engineering, NIT Kurukshetra, from August 7, 1989 to January 1, 1990

## **Administrative Experience (Academic):**

- Head, Department of Mechanical & Industrial Engineering, IIT Roorkee (2007 – 2009)
- Member of Department Research Committee (2002-2004, 2006 – 2009), IIT Roorkee
- Coordinator, Educational Technology Cell, 2004 – 2005, IIT Roorkee
- Member Professor Committee, Department of Management Studies, (Jan 2006– date)
- Member UG Studies ( 1996 – 1998)

## ***Courses Taught***

### **Courses Taught UG Level**

- Operations Research
- Principles of Industrial Engineering
- Basic Manufacturing Process
- Metal Casting
- Engineering Economy
- Statistical Methods and Analysis
- Net Work Analysis
- Quality Control
- Facilities Design
- Financial Management

### **Courses Taught at Graduate Level**

- Operations Research
- Advanced Manufacturing Processes
- Metal Casting
- Operations Management
- Quality Management
- Inventory and Logistics Management
- Value Chain Management

## ***Short Term Programs Organized***

Organized and coordinated the following programs:

1. ISO-9000 Quality Systems, Quality Improvement Center, IIT Roorkee, INDIA., 2 weeks program, June 1995
2. Engineering Economy-A Basic Course, West Virginia University, Morgantown, U.S.A. May 1996, June 1996
3. Intermediate Engineering Economy, West Virginia University, U.S.A. June, 1998
4. Quality Function Deployment – ASSOCHAM, New Delhi, 2006
5. Analytical Skills Development Program, Associated Cement Companies, IIT Roorkee, INDIA, 4 weeks Program, 2003
6. Analytical Skills Development Program, Associated Cement Companies, IIT Roorkee, INDIA, 4 weeks Program, 2004
7. Analytical Skills Development Program, Associated Cement Companies, IIT Roorkee, INDIA, 4 weeks Program, 2005
8. Analytical Skills Development Program, Associated Cement Companies, IIT Roorkee, INDIA, 4 weeks Program,2006
9. Analytical Skills Development Program, Associated Cement Companies, IIT Roorkee, INDIA, 2 Programs of 4 weeks durations each,2007

10. Training Programs (Multiple) on SQC and SPC to Bharat heavy Electrical Limited (BHEL) Managers, BHEL Hardwar, 2007
11. Behavioral and Management Training Program, M. P. State Electricity Board, Jabalpur, 2 Programs, November 12 – December 20, 2007, December 24 – February 2, 2008
12. Analytical Skills Development Program, Associated Cement Companies, IIT Roorkee, INDIA, 2 Programs of 2 weeks durations each, July 2008
13. Advanced Materials and Manufacturing, Quality Improvement Center, IIT Roorkee, INDIA., 1 week program, to be held in June 2010
14. Short Term Course on Marketing and Value Chain Management in Agriculture at AIT Extension Center, AIT Bangkok, April 2010

### ***Short Term Programs Attended***

1. Training course on Quality Engineering – Taguchi's Methods, (Organized by Asian Productivity Council, Japan), August 13 – 17, 2001, Mongolia
2. Basic Cost Engineering, West Virginia University, Morgantown, U.S.A. May 1996, June 1996
3. ISO 9000 Quality Systems, STEP, IIT Roorkee, 1994
4. Computer Aided Manufacturing, Institutions of Engineers, 1993
5. Solidification of Castings, QIP Summer course , IIT Roorkee, 1990

### ***Participation in Conferences***

Participated in more than 20 National & International conferences. Presented the research papers in conferences held in India and abroad. Also, Chaired Technical Sessions and delivered keynote speeches.

### ***Patent***

#### **“A Method of Joining of Bulk Materials by Microwave Hybrid Heating”**

(Sharma, A. K., Srinath M. S., Kumar, Pradeep (2009), Indian Patent Application Number 1994/DEL/2009

## ***Sponsored Research Projects***

<b>SN</b>	<b>Title of the Project</b>	<b>Funding Agency</b>	<b>Period (Status)</b>	<b>Outlay</b>
1.	Design and Development of Multi-media, Web Based Course on Facilities Design	National Science Foundation U.S.A	One Year (Completed)	US\$ 40k
2.	Quality Optimization of Full Mold Process	UGC Minor Project,	One Year (Completed)	INR 0.42 Lacs
3.	Process Parameter Optimization and FEM Modeling of Ultrasonic Drilling Process.	AICTE, New Delhi	Two Years (Completed)	INR 5.00 Lacs
4.	Enhancing Capabilities of Abrasive Flow Machining	DST, New Delhi	Three Years (Completed)	INR 8.00 Lacs
5.	Development and Performance Studies of Evaporative Pattern Casting Process	DST, New Delhi	Three Years (Completed)	INR 14.25 Lacs
6.	Pattern Tooling and Quality Optimization for Investment Castings	MHRD, New Delhi	Three Years (Completed)	INR 8.00 Lacs
7.	Near Net Shape Manufacturing of Metal Matrix Composite through Investment Casting Process	MHRD, New Delhi	Three Years (Completed)	INR 14.00 Lacs
8	Development and Parametric Study of Ultrasonically Assisted Abrasive Flow Machining for Precision Finishing	DST, New Delhi	Three Years (Ongoing)	INR 20.40 Lacs
9.	Fault Diagnosis and Prognosis of High Speed Rolling Element Bearing	DST, New Delhi	Three Years (Ongoing)	INR 31.84 Lacs
10.	Structural Instability in Friction Stir Weld Joints of Aluminum Alloys and their Effect on Mechanical Properties	DST, New Delhi	Three Years (Ongoing)	INR 19.01 Lacs
11.	Development of Fracture and Fatigue Resistant Cast Aluminum Alloys Produced by Semi-Solid Metal Casting and Conventional Casting Processes	Indo – Mexico S & T Program of DST, New Delhi	Three Years (Ongoing)	INR 8.29 Lacs

## ***Consultancies Offered***

<b>S.N</b>	<b>Title of the Project</b>	<b>Funding Agency</b>
1.	Design and Development of Solar Heated Space System	EICHER Tractors, Parwanoo
2.	Calibration of equipment such as slip gauge, calipers etc.	ITC, BHEL
3.	Analytical Skills Development Program for ACC	ACC, Mumbai
4.	Analytical Skills Development Program for ACC	ACC, Mumbai
5.	Analytical Skills Development Program for ACC	ACC, Mumbai
6.	Testing of Weld Structures	New Tehri, Uttarakhand
7.	Testing of construction Materials	IRRI, Uttarakhand
8.	Analytical Skills Development Program for ACC	ACC, Mumbai
9.	Human resource Work of MP-DISCOMS and TRANSCO	M. P. State Electricity Board, Jabalpur
10.	Analytical Skills Development Program for ACC	ACC, Mumbai
11.	Human resource Work of MP-DISCOMS and	MPSEB Jabalpur
12.	Training Programs (Multiple) on SQC and SPC	BHEL Hardwar
13.	Inspection of Ropeway	S. S. Associates, Mussorie
14.	Performance Testing of Railway Bridge	CRRI, New Delhi
15.	Feasibility Analysis of Setting Common Facility Centre	Small Scale Industries, Haldwani
16.	Inspection of Ropeway	S. S. Associates, Mussorie
17.	Behavioral and Management Training Program	MPSEB, Jabalpur
18.	Human resource Work of MP-DISCOMS and TRANSCO (AO)	MPSEB, Jabalpur
19.	Inspection of Cylinder Liners	Special Income Tax Crime Branch, Haldwani
20.	Human resource Work of MP-DISCOMS and	MPSEB, Jabalpur
21.	Analytical Skills Development Program for ACC	ACC, Mumbai
22.	Performance Testing of Railway Bridge	CRRI, New Delhi
23.	Inspection of Ropeway	S.S. Associates, Mussorie
24.	Fatigue Studies of Bridge Components	CRRI, New Delhi
25.	Human resource Work of MP-DISCOMS	MPSEB, Jabalpur
26.	Inspection of Ropeway	Campty Fall, Mussorie
27.	Inspection of Ropeway	S.S. Associates, Mussorie
28.	Design development of load testing fixture for 28 axle Special rail wagon to be used for rail transport of stators of 600/660 MW TGs	BHEL Hardwar
29.	Performance Evaluation of Ropes	Garwhal Mandal Vikas Nigam, Uttarakhand
30.	Inspection of Ropeway	Campty Fall, Mussorie
31.	Fatigue Studies of Bridge Components	CRRI, New Delhi

## ***Foreign Assignments***

- Visiting Assistant Professor May 96 – June 96  
Dept of Industrial and Management System Engineering,  
West Virginia University, Morgantown, U.S.A.
  - Short-term course on Engineering Economy.
  - Short-term course material on Intermediate Engineering Economy
  
- Visiting Assistant Professor June 98 – May 99  
Department of Industrial and Manufacturing Engineering,  
Wayne State University, Detroit MI, U.S.A.
  - Developed a Multi-media Web Based Course on Facilities Design as part of NSF project. It includes the computer-based learning, practice, self-assessment and linkage to other professional courses.
  - Developed a mathematical model for Product and Design Verification Planning of an Automotive Part
  
- Visited Mongolia in August 2000 and presented country paper at Asian Productivity Office.
- Visited Bangkok in (December 9-14, 2007) as a selection panelist for KAUST, Saudi Arabia.
- Visited Amsterdam, Netherlands (August 17-19, 2008) 6th Consortium Meeting of EU-Asia Link Program on Sound and Vibration
- Visited Stockholm, Sweden (August 20-24, 2008) 6th Consortium Meeting of EU-Asia Link Program on Sound and Vibration
  
- Visiting Professor January 2010 – April 2010  
Department of Industrial and System Engineering, AIT Bangkok
  - Teaching a course on Inventory and Logistics Management
  - Delivered 15 Hours of Lectures in a short Term Course on Marketing and Value Chain Management in Agriculture at AIT Extension Center, AIT Bangkok.

## ***Honors / Awards / Recognitions***

- **Fellow of World Confederation of Productivity Sciences**, Canada **2007**
- **Outstanding Teacher Award**, Indian Institute of Technology Roorkee **2005, 2009**
- **Star Performer**, Indian Institute of Technology Roorkee, based on the feed back of teaching and research **2004, 2005, 2006, 2007**
- **Guest of Honor**, GENESIS 04, Guru Nanak Dev Engineering College, Pb, **2004**
- **3<sup>rd</sup> Best Paper Award**, XIII ISME Conference, IIT Roorkee, **2003**
- **SAE Recognition Award**, Appreciation for contribution to SAE International Automotive Manufacturing Conference and Exposition, Detroit. USA **2001**
- **Binani Trust Award for Best Technical Paper** published, during 1996-1998, in Indian Foundry Journal from Institute of Indian Foundrymen, for the research paper "Effect of Process Variables on the Mechanical Properties of Al-11%Si Alloy Castings Produced by V-Process" (1996), Indian Foundry Journal, Vol. 42, pp. 3-10. January 99
- **Khosla Research Commendation Certificate**, from University of Roorkee, India, for the research paper:  
"Off-line Quality Control for V-Process Castings" (1995), Quality and Reliability Engineering International Journal, U.K., Vol. 11, pp. 175-181. **1996**
- **Gold Medal** for Securing **1st rank in ME** from Indian Institute of Technology (erstwhile University of Roorkee), India **1989**

## ***Books / Chapter Contributed***

- Contributed 9 chapters in a Book Entitled: FE:PM Industrial Engineering  
Publisher: Research and Education Association, U.S.A
  1. Facilities Design and Location
  2. Queuing Theory and Modeling
  3. Production, Planning and Scheduling
  4. Industrial Cost Analysis
  5. Work Performance and Methods
  6. Manufacturing Processes
  7. Material Handling System Design
  8. Manufacturing System Design
  9. Simulation
- Bhatti, R.S., **Pradeep Kumar** & Dinesh Kumar (**2009**). "A Fuzzy AHP model for 3PL selection in Lead Logistics Provider scenarios. Hershey, Pennsylvania, USA, IGI Global Publications. (In Press)

## ***Supervision of Ph. D Theses***

Ph. D – 26 (17 awarded, 8 in progress)

### **Ph. D Theses Awarded**

<b>S.N</b>	<b>Scholar</b>	<b>Title of Thesis (Year)</b>	<b>Co-supervisor</b>
1	Shankara Murthy	Characterization and Machinability Studies in Drilling of Al6061/SiC <sub>p</sub> MMC <b>(2010)</b>	Dr. N. K. Mehta
2	Akshay Dwivedi	Electric Discharge Machining of Al 6063 MMC Produced by Stir Casting Process <b>(2009)</b>	Dr. I. D. Singh
3	M. N. Qureshi	Planning, Design and Analysis of Third Party Services Providers <b>(2008)</b>	Dr. D. Kumar
4	Anish Sachdeva	RAM Analysis of Industrial Systems using Petri Nets <b>(2008)</b>	Dr. D. Kumar
5	Aman Aggarwal	Performance Studies of CNC Machined Parts Using Robust Design Techniques <b>(2008)</b>	Dr. H. Singh
6	Balwinder Singh	Effect of Process Variables on Castings Produced by Ceramic Shell Investment Castings <b>(2007)</b>	Dr. B. K. Mishra
7	Rajeev K. Sharma	Analysis, Design and Optimization of QRM Aspects in Production Systems <b>(2007)</b>	Dr. D. Kumar
8	R. K. Pati	Modeling and Analysis of Reverse Supply Chain for Indian Paper Industry <b>(2006)</b>	Dr. Prem Vrat
9	S. Balan	Planning, Design, and Optimization of Global Supply Chain Management <b>(2006)</b>	Dr. Prem Vrat
10	R. S. Walia	Development and Investigations in Centrifugal Force Assisted Abrasive flow Machining Process <b>(2006)</b>	Dr. H. S. Shan
11	Alknanda	Image Processing of Welding Defects(2006)	Dr. R. S. Anand
12	Sudhir Kumar	Process Development and Performance Studies of Evaporative Pattern Castings (2006)	Dr. H. S. Shan
13	H. Kansal	Investigation of the Effects of Process Parameters Affecting the Quality of Machined Surfaces by Powder EDM Process (2006)	Dr. S. P. Singh
14	R. S. Jadoun	Investigation of Process Parameters Affecting the Quality of Hole Drilled in Alumina Based Ceramics by Ultrasonic machining (2005)	Dr. R.C. Mehta, B. K. Mishra
15	Sehijpal Singh	Studies in Metal Finishing with Magnetically Assisted Abrasive Flow Machining (2002)	Dr. H. S. Shan
16	Hari Singh	Optimization of Machining Parameters for Turned Parts through Taguchi Technique. (2000)	Dr. I. P. Singh, Dr. D. Kumar
17	P.B. Barua	Investigation and Optimization of V-Process Parameters Affecting the Quality of Al - 7% Si Alloy Castings Using Taguchi Technique. (1997)	Dr. J. L. Gaindhar

## ***Supervision of M. Tech Dissertations***

M. Tech – 63 (58 awarded, 5 in Progress)

<b>S.N</b>	<b>Year</b>	<b>Title</b>	<b>Candidate</b>
1	1991	Comparative Study of Brass Castings Produced by V-Process and Green Sand Molding Method	Amit Kumar
2	1991	Effect of Process Variables on the Quality of LM-6 Alloy Castings Produced by Full Mold Process	S. Murli Mohan
3	1992	Graphics Oriented Software for the Design of Quality Control Charts	M. Gowda
4	1992	Reliability Study of an Automotive Transmission System	J.S. Bhatia
5	1993	Performance Study of LM-6 Alloy Castings Produced by V-Process Using Fly Ash as an Additive to Silica Sand	Suresh Holi
6	1994	Off-Line Quality Control for V-Process Castings (LM-6 Alloy) Using Taguchi Approach	Sanjany Bansal
7	1994	Comparison Studies of Al-11%Si Alloy Castings Produced by V-Process, Green Sand and Carbon Di-Oxide Molding Methods	Vikas
8	1995	Developing an Optimization Model for the Cutting Stock Problems	Deepak Sharma
9	1995	Effect of Fly-ash Addition on the Quality of Castings Produced by V-Process	R. S. Sinha
10	1996	Study of Waste Management for a Sugar Manufacturing Plant	F. A. Qureshi
11	1996	Computer Aided Design of Gating System of V-Process Molds	Rakesh Chauhan
12	1997	A Software for the Optimum Utilization of Resources in Project Management	M. S. Reddy
13	1997	Green Sand Molding Process Optimization through Taguchi's Technique	D. K. Singh
14	1998	Development of a Multi-Criterion Optimization Software Using the Concepts of Fuzzy Set Logic	N. K. Sabat
15	1998	Strength Evaluation of SS Wires Reinforced Aluminum Alloy Castings and SG iron	S. K. Roy
16	1998	Effect of Molding Material on the Quality of Al-7%Si Alloy Castings Produced by Investment Casting Method	Annon
17	2000	Computer Aided Optimization Approach to Piston Design Based on Genetic Adaptive Search	P. K. Verma
18	2001	Effect of Fly ash Addition on the Dimensional and Surface Properties of Castings Produced by Green Sand Molding Process	P. R. Watre
19	2001	Process Variables Effect on Castings Produced by Shell Molding Process	V. K. Gangwar
20	2001	Effect of Fly ash Addition on the Mechanical Properties of Castings Produced by Green Sand Molding Process	U. S. Patra
21	2001	Process Variables Optimization of Castings Produced by Investment Casting Process	S. Srivastva

<b>S.N</b>	<b>Year</b>	<b>Title</b>	<b>Candidate</b>
22	2001	Computer Simulation of Solidification using Finite Element Analysis	Sane
23	2002	Optimization of Machining Parameters Using Geometric Programming	Gabriel Kahasay
24	2002	Performance Studies of Evaporative Pattern Casting Process	Ajit Kumar
25	2002	FEM Modeling of MRR in Magneto Abrasive Flow Machining Process	S. K. Sharma
26	2002	Performance Studies of Electro Chemical Wire Drilling Process	Deepak Kumar
27	2003	Applications of Material Requirement Planning Model in Water Resources Projects	N. K. Mishra
28	2003	Influence of Pulsed TIG Welding Parameters on Bead Profile of Al and Steel	H. Kumar
29	2003	Optimization of Product Mix Problems Using Genetic Algorithm	Abhijit Das
30	2003	Investigation of the Effect of Process Parameters in the Quality of Hole Drilled by Ultrasonic Drilling	Hari Saranaya
31	2003	Modeling of Mechanism of Material Removal in Ultrasonic Drilling	J. B. Shekhar)
32	2003	Software Development for Gating and Riser Design	Vinay K. Singh
33	2004	Optimization and Investigation of the Effect of Process Parameters on the Quality of Hole Drilled in Titanium Alloy by USD Process	Akshay Dwivedi
34	2004	Design and Development of Supply Chain Information System for Paper industry	Deepak Jain
35	2004	Performance Studies of LM6 Alloy Castings Produced by Investment Casting Process	Sanjeev Bhandari
36	2004	Modeling of the Mechanism of Material Removal in Electro-Discharge Machining Using FEM	Amit Sharma
37	2004	Scheduling in Cellular Manufacturing System	D. Kumar
38	2004	Implementation of TPM to Hydro Treating Pilot Plant Operations	Rakesh Kumar
39	2005	Reducing Bullwhip effect by fuzzy logic in supply chains	Neeraj Sharma
40	2005	Pattern Tooling and Finite Element Modeling of Investment Casting process	P. S. Raju
41	2006	Simulation of Solidification of Ceramic Shell Investment Castings by Using FEM	A. K. Jiaswal
42	2006	Investigation of Effect of Process Parameters Affecting the Quality of Castings Produced by Lost Wax Process	Rahul Gautam
43	2006	Investigation of Effect of Filler Materials in Zircon Flour coatings used in EPC Process	Rupak Kanungo
44	2006	Productivity Analysis of Manufacturing Firm	H. R. Vohra
45	2006	Spare Part Management – A Case Study	Ekko
46	2007	Process Parameter Study of Machining of Metal Matrix Composites by EDM	Saurabh K Singh
47	2007	Process Parameter Investigation of Machining of Metal Matrix Composites by USD	Prateek Kala

S.N	Year	Title	Candidate
48	2007	A case Study of Multi Product, Multi Echelon Logistic Design with Uncertain Seasonal Demand	Y. A. Arun Kumar
49	2007	Finishing of Cast MMC through Centrifugally Assisted Abrasive flow Machining(CAAF <sub>M</sub> )	K. Malla Reddy
50	2007	A DSS for Casting Process Selection	Deepak Nagar
51	2008	Critical Evaluation for the Selection of 3PL (third party logistics) Service Providers under Fuzzy Environment	Sachin Kasture
52	2008	Performance Analysis of Industrial Systems Using Petri Nets	Satish C. Gaud
53	2008	Investigation of the Effect of process parameters on the surface quality of high speed steel in Powder Mixed-EDM	Deepak Bora
54	2008	Investigation of the effect of interfacial characteristics on the mechanical behavior of metal matrix composites	Pradeep Kumar
55	2009	Modeling and Simulation of the Debonding Behavior of Wire Reinforced Aluminum Matrix Composite	Shashi Bhushan
56	2009	Electrical Discharge Coating on Aluminum Using TiC/Cu Green Compact Electrode	Abhishek Das
57	2009	Modeling of Select Issues in Third Party Services Providers Under LLP Scenarios	Varun Unikrishnan
58	2009	A Study of Selection Issues of Integrated Services Providers	C Sricharan

### ***Research Publications***

➤ Published - Journal	158 + (accepted) 02	= 160	} 336
➤ Published - Conference		= 176	
➤ Under review - Journal		= 21	
➤ Under review - Conference		= 7	
➤ Total		= 364	

**PUBLISHED INTERNATIONAL & NATIONAL JOURNAL PAPERS (2005 Onwards)**

1.	Singh, Balwinder, <b>Kumar, Pradeep</b> , Mishra, B .K. (2010), "Investigations of the effect of injection parameters on the quality of wax patterns used in ceramic shell investment casting". International Journal of Manufacturing Technology and Management, vol. 21, No. 1/2, pp. 148-159
2.	Ch. Ramu, Mehta, N. K., <b>Kumar, Pradeep</b> &, Murthy, A. G Shankara, (2010), Experimental Investigations to Optimize Step Drill Geometry for Burr Minimization in Drilling Using Regression Model, Accepted for publication in International Journal of Manufacturing Technology and Management (IJMTM), Inderscience, Vol. ½, pp. 122 – 134
3.	Dvivedi, Akshay, <b>Kumar, Pradeep</b> , Singh, Inderdeep (2010), "Experimental Investigations of Machining Parameters on Surface Quality for EDM of Al 6063-SiCp Metal Matrix Composite", International Journal of Materials and Product Technology (IJMPT) - ( <a href="http://www.inderscience.com/coming.php?ji=20&amp;jc=ijmpt&amp;np=13&amp;jn=International%20Journal%20of%20Materials%20and%20Product%20Technology">http://www.inderscience.com/coming.php?ji=20&amp;jc=ijmpt&amp;np=13&amp;jn=International%20Journal%20of%20Materials%20and%20Product%20Technology</a> ),
4.	Qureshi, M. N, <b>Kumar, Pradeep</b> , Kumar, D. (2009), "Selection of 3PL services providers: A combined approach of AHP and Graph Theory", International Journal of Services Technology and Management (IJSTM), Inderscience, Vol. 12, No. 1, pp. 35-60
5.	Bhatti, Rajbir, <b>Kumar, Pradeep</b> Kumar, D., (2009), "Integrated DEAHP Model for Selection of 3PL Service Providers by Global Fourth Party Logistics Integrators": Int J. of Business Performance and Supply Chain Management (IJBPSM): 1(2/3), 187-202
6.	Bhatti, Rajbir, <b>Kumar, Pradeep</b> Kumar, D., (2009), "Critical Insights into Supply Chain Risks and Mitigation Management Strategies" Communicated to AIMS International Journal, USA; 4(1), 101-111
7.	Aggarwal, Aman, Singh, H., <b>Kumar Pradeep</b> , (2009), "Simultaneous Optimization of conflicting responses for CNC turned parts using Desirability function". International Journal of Material and Product Technology, Inderscience, Vol. 18, No. 3, pp. 319-332
8.	Walia R.S., Shan H.S., <b>Kumar Pradeep</b> (2009), "Modeling of Centrifugal Force Assisted Abrasive Flow Machining", Proceedings of the Institution of Mechanical Engineers, Part E, Journal of Process Mechanical Engineering, Vol. 223, pp. 195-204
9.	Qureshi, M. N, <b>Kumar, Pradeep</b> , Kumar, D. (2009), "Selection of 3PL services provider under fuzzy environment: A Graph-Theoretic and Matrix Approach", International Journal of Logistics Systems and Management (IJLSM), Inderscience, Vol.5, No.5, pp.551-573
10.	Sachedva, Anish, <b>Kumar, Pradeep</b> , Kumar, D., (2009), "Behavioral and Performance Analysis of Feeding System using Stochastic Reward Nets", International Journal of Advanced Manufacturing Technology, Vol. 45, pp. 156-159
11.	Sachedva, Anish, Kumar, D., <b>Kumar, Pradeep</b> (2009), "Multi factor failure mode criticality analysis using TOPSIS", Journal of Industrial Engineering International, Vol 5 No. 8 pp. 1-13
12.	Jadoun, R., <b>Kumar, Pradeep</b> , Mishra, B. K. (2009) "Taguchi's optimization of process parameters for production accuracy in ultrasonic drilling of engineering ceramics", Production Engineering, German Academic Society for Production Engineering, Springer, Vol. 3, pp.243-253

13.	Pati, Rupesh, Vrat, Prem., <b>Kumar, Pradeep (2009)</b> , "Decision Support Model for Economic Waste Paper Collection ", Productivity Journal, Volume 49, Issue 4, pp 265-271
14.	Dvivedi Akshay, <b>Kumar Pradeep</b> , Singh <b>Inderdeep (2009)</b> , "Machining Characteristics of Al 6063 SiCp Metal Matrix Composite using Electric Discharge Machining", Journal of Manufacturing Technology Research, NOVA SCIENCE, USA, Vol. 1, No. ¾, pp. 247-272.
15.	Sidola A, <b>Kumar, Pradeep</b> , Kumar D, <b>(2009)</b> , "Risk Mitigation through Pooling in Multi Retailer Supply Chain", Journal of Insurance & Risk Management", Vol. 4, No. 5, pp 38-48
16.	Walia R.S., Shan H.S., <b>Kumar Pradeep, (2009)</b> "Optimization of Finishing Conditions in Centrifugal Force Assisted Abrasive Flow Machining Using Taguchi's Method", International Journal of Manufacturing Technology and Management, Vol. 18, No.1 pp. 79 - 93.
17.	Bhatti, Rajbir, <b>Kumar, Pradeep</b> Kumar, D., <b>(2009)</b> , "The concepts and issues in selection of fourth party logistics", Pravartak-Journal of Information Technology and Insurance, 4(9), 36-42.
18.	Sidola A, <b>Kumar, Pradeep</b> , Kumar D, <b>(2009)</b> , "Requisites of A Resilient Supply Chain: A Global Perceptive", Journal of Insurance & Risk Management, Volume IV, Issue 4, 2009, pp 60-69.
19.	Walia R.S., Shan H.S., <b>Kumar Pradeep (2009)</b> , "Enhancing AFM process productivity through improved fixturing", Int. J. of Advanced Manufacturing Technology, Vol. 44, pp. 700-709
20.	Kankar, P.K, Harsha, S. P., <b>Kumar, Pradeep, Sharma, Satish C., (2009)</b> , "Fault Diagnosis of a Rotor Bearing System Using Response Surface Methodology", European Journal of Mechanics A/Solids, Elsevier, Vol. 28, pp. 841-857,
21.	Qureshi, M. N, <b>Kumar, Pradeep</b> , Kumar, D. <b>(2009)</b> , "Selection of Potential 3PL Services Provider: A Fuzzy QFD Approach", International Journal of Logistics & Supply Chain Management (IJLSCM) Vol.1 No.1, pp. 29-37.
22.	Kumar, Sudhir, <b>Kumar, Pradeep</b> , Shan, H. S., <b>(2009)</b> , "Finite Element Analysis of Heat flow in the Steped Casting in Evaporative Pattern Casting Process", Indian Foundry Journal, Vol. 55, No. 1, pp. 35-40
23.	Qureshi, M. N, <b>Kumar, Pradeep</b> , Kumar, D. <b>(2009)</b> , "Framework for Benchmarking Logistics Performance using Fuzzy AHP", International Journal of Business Performance and Supply Chain Modelling, Vol. 1, No. 1, pp. 82-98
24.	Aggarwal, Aman, Singh, H., <b>Kumar Pradeep (2009)</b> , "Optimizing feed and radial forces in CNC machining of P-20 tool steel through Taguchi's parameter design approach", Indian Journal of Engineering and Materials Sciences, pp. 23--32
25.	Bhatti, Rajbir, Kumar, D., <b>Kumar, Pradeep (2009)</b> , "Supply Chain Risks: An Overview-Pravartak – Journal of Risk Management, Vol. 4, No. 3, pp. 8-16
26.	Singh Sehijpal, Shan H.S., <b>Kumar Pradeep (2008)</b> . "Experimental investigation into mechanism of material removal in Abrasive Flow machining Materials and Manufacturing Processes (Taylor and Francis publication) 23(7), the seventh issue of 2008

27.	Reddy, Malla K, Sharma, Apurbba K, <b>Kumar, Pradeep (2008)</b> , Some aspects of centrifugal force assisted abrasive flow machining of 2014 Al alloy, Proceedings of the Institution of Mechanical Engineers, Part B, Journal of Engineering Manufacture, Vol. 222, pp 77-783
28.	Dvivedi, Akshay, <b>Kumar, Pradeep</b> , Singh, Inderdeep (2008), "Experimental investigation and Optimisation in EDM of Al 6063 SiCp Metal Matrix Composite", International Journal of Machining and Machinability of Materials (IJMMM), Inderscience, Vol. 3, No. 3/4, pp. 293-308
29.	Walia R.S., Shan H.S., <b>Kumar Pradeep (2008)</b> , "Morphology and integrity of surfaces finished by Centrifugal Force Assisted Abrasive Flow Machining", Int. J. of Advanced Manufacturing Technology, Vol. 39, No. 11-12, pp.1171-1179
30.	Kasture, Sachin, Qureshi, M.N, <b>Kumar, Pradeep</b> , Gupta, Ila (2008), "FAHP Sensitivity Analysis for Selection of Third Party Logistics (3PL) Service Providers", The ICfai University Journal of Supply Chain Management, Vol. 5, No. 4, pp. 41-60
31.	Dvivedi, Akshay, <b>Kumar, Pradeep</b> , Singh, Inderdeep (2008), "Development of a New Stir Caster Design for the Production of Metal Matrix Composite", Indian Foundry Journal, Vol. 54, No. 12, pp. 21-27
32.	Kansal H. K. Singh Sehijpal, <b>Kumar Pradeep, (2008)</b> "Numerical Simulation of Powder Mixed Electric Discharge Machining (PMEDM) by Finite Element Method" Mathematical and Computer Modeling—An International Journal (Elsevier), Vol. 47, Issues 11-12, pp. 1217-1237
33.	Murthy, A. G. Shankara , Mehta N. K, <b>Kumar, Pradeep (2008)</b> , Wear Behaviour of Al6061-10 wt. % SiC Particle Reinforced Metal Matrix Composite using RSM Technique, International Journal of Mechanical Engineering and Material Sciences (IJMEMS), Vol 1 (1), pp 37-43
34.	Singh, Balwinder, <b>Kumar, Pradeep</b> , Mishra, B .K. (2008), "Effect of Slurry Composition on Plate Weight in Ceramic Shell Investment Casting" Journal of Materials Engineering & Performance JMEP-06-12-0401, Vol 17,No.4/August 2008 pp 489-498
35.	Sachedva, Anish, Kumar, D., <b>Kumar, Pradeep (2008)</b> ,"Planning and Optimizing the Maintenance of Paper production Systems in a Paper Plant", Computers & Industrial Engineering, Vol. 55, pp. 817-829
36.	Aggarwal, Aman, Singh, H., <b>Kumar Pradeep, (2008)</b> "Modeling of Machining Parameters and Cooling Conditions in Hard Turning of AISI P-20 Tool Steel using Response Surface Methodology and Desirability Graphs". International Journal of Machining and Machinability of Material,Inderscience, Vol. 4, No. 1, 95-110
37.	Sachedva, Anish, Kumar, D., <b>Kumar, Pradeep (2008)</b> , "Availability modeling of Screening System of a paper plant using GSPN", Journal of Modelling in Management, Vol. 3, No.1, pp. 26-39
38.	Qureshi, M. N, Kumar, D., <b>Kumar, Pradeep (2008)</b> , "Decision support model for evaluation and selection of 3PL services providers", International Journal of Logistics Systems and Management (IJLSM), Inderscience to appear in May, Vol.4, No.3, pp 255-281

39.	Aggarwal, Aman, Singh, H., <b>Kumar Pradeep, (2008)</b> "Power consumption optimization for CNC machined parts using response surface methodology and Taguchi technique- A comparative analysis", Journal of Material Processing Technology. Vol. 200(1-3), pp.373-384.
40.	Kumar Sudhir, <b>Kumar Pradeep</b> , Shan, H. S., <b>(2008)</b> "Optimization of Tensile Properties of EPC Process Castings Through Taguchi's Parameter Design Approach", Journal of Material Processing and Technology, Vol. 1-3, 59-69
41.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2008)</b> , "Application of Fuzzy Methodology to Build Process Reliability-A Practical Case", International Journal of Product Development. Vol.5 (2) pp125-152.
42.	Qureshi, M. N, Kumar, D., <b>Kumar, Pradeep (2008)</b> , "Identification and classification of criteria and their role in the selection of 3PL services providers", Asia Pacific Journal of Marketing and Logistics (APJML), Emerald Vol.20, No.2, 2008, pp 227-249
43.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2008)</b> , "Predicting Uncertain Behavior Of Industrial System Using FMEA Practical case" Applied Soft Computing. Vol.8 pp 96-109
44.	Sachedva, Anish, Kumar, D., <b>Kumar, Pradeep (2008)</b> , "A methodology to determine maintenance criticality using AHP", International Journal of Productivity and Quality Management, Vol. 3, Issue 4 pp. 396 - 412
45.	Sachedva, Anish., Kumar, D., <b>Kumar, Pradeep (2008)</b> , " Reliability modeling with Petri nets", The Icfai Journal of Operations Management, Vol. 7, No. 2, pp. 22 – 32
46.	Aggarwal, Aman, Singh, H., <b>Kumar Pradeep, (2008)</b> , "Multi Characteristic Optimization of CNC turned parts using principal component analysis", International Journal of Machining and Machinability of Material (a journal of Inderscience). Vol. 3(1/2)208-223
47.	Kumar, Sudhir, <b>Kumar, Pradeep</b> , Shan, H. S., <b>(2008)</b> "Characterization of the Refractory Coating Material Used In Vacuum Assisted Evaporative Pattern Casting Process", Journal of Material Processing Technology, Volume 209, Issue 5, pp. 2699-2706.
48.	Qureshi, M. N, Kumar, D., <b>Kumar, Pradeep (2008)</b> , "3PL evaluation and Selection Under a Fuzzy Environment: A Case Study", The Icfai Journal of Supply Chain Management", Vol. V, No. 1, PP. 38-53
49.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2008)</b> , "Fuzzy modeling of system behavior for risk and reliability analysis International Journal of system science, Taylor and Francis, Volume 39, Issue 6 June 2008 , pp 563 - 581
50.	Aggarwal, Aman, Singh, H., <b>Kumar Pradeep, (2008)</b> , "Optimization of Multiple Quality Characteristic for CNC Turning under Cryogenic Cutting Environment using Desirability Function". Journal of Material Processing Technology (a journal of Elsevier), Vol 205(1-3) pp 42-50
51.	Kumar Sudhir, <b>Kumar Pradeep</b> , Shan, H. S., <b>(2008)</b> "Effect of process parameters on impact strength of Al 7% Si alloy castings produced by Vacuum Assisted Evaporative Pattern Casting process", International Journal of Advanced Manufacturing Technology, Volume 38, Numbers 5-6, pp. 586-593

52.	Walia R.S., Shan H.S., <b>Kumar Pradeep (2008)</b> , "Determining dynamically active abrasive particles in the media used in centrifugal force assisted abrasive flow machining process", Int. J. of Advanced Manufacturing Technology, Paper no. IJAMT237, Vol. 38, pp. 1157-1164
53.	Kumar, Sudhir, <b>Kumar, Pradeep</b> , Shan, H. S., (2008), "Density Optimization of slurry of coating material used in EPC Process Through Taguchi's Parameter Design Approach", Materials and Manufacturing process, Vol. 23, No. 7, 719-725
54.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep</b> , (2008) "Quality Costing in Process Industries through QCAS-A Practical Case" International Journal of Production Research Taylor and Francis, vol. 45, pp. 3381-3403
55.	Sachedva, Anish, Kumar, D., <b>Kumar, Pradeep (2008)</b> , "Reliability Analysis of Pulping System using Petri Nets", International Journal of Quality and Reliability Management Vol. 25, No. 8. pp. 860-877
56.	Pati, Rupesh, Vrat, Prem., <b>Kumar, Pradeep</b> , (2008), "A Multi-Objective Optimization Model for Paper Recycling System", OMEGA - International Journal of Management Sciences, U.S.A., Vol. 36, 2008, 405-417
57.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2007)</b> , "A fuzzy decision support system for conducting FMEA Journal of Institution of Engineers (IE), Mechanical Engineering, Calcutta 2007, Vol.88 pp 39-44
58.	Kumar, Sudhir, <b>Kumar, Pradeep</b> , Shan, H. S., (2007) "Effect of Process Parameters on the Solidification Time of Al-7% Si Alloy Castings Produced by VAEPD Process", Materials and Manufacturing process, Vol. 22 (7), pp 879-886
59.	Kansal H. K. Singh Sehijpal and <b>Kumar Pradeep</b> , (2007) "Powder Mixed Electric Discharge Machining (PMEDM) optimization using Taguchi Methods", SME Journal of Manufacturing Processes, Vol. 9, No.1, pp. 13-22
60.	Balan, S., Vrat, Prem., <b>Kumar Pradeep (2007)</b> , Information Distortion in a Supply Chain and its Mitigation of MIMO model using Soft Computing Approach, OMEGA: An International, Application Oriented Research Journal, Elsevier Science U.K, Vol. 37, Issue 2, pp. 282-299
61.	Aggarwal, Aman, Singh, H., <b>Kumar Pradeep (2007)</b> , "Cutting force optimization for CNC machined P-20 tool steel through Taguchi's parameter design approach", Productivity Promotion). Vol.10(36), May-Aug,2007,pp.22-31.
62.	Qureshi, M. N, Kumar, D., <b>Kumar, Pradeep (2007)</b> , "Modeling the logistics outsourcing relationship variables to enhance Shippers' productivity and competitiveness in logistical supply chain", International Journal of Productivity and Performance Management (IJPPM), Emerald, Vol.56, No.7& 8, pp.689-714.
63.	Pati, Rupesh Vrat, Prem., <b>Kumar, Pradeep</b> , (2007), "A MILP Model for Design of Paper Recycling Network", International Journal of Ecology & Development, Vol. 9; No. W08; Winter 2008, 69-86
64.	Qureshi, M. N, Kumar, D., <b>Kumar, Pradeep (2007)</b> , "Performance evaluation of 3PL services providers using AHP and TOPSIS- Case study", The Icfai Journal of Supply Chain Management, Vol. IV, No. 3, pp.20-38.

65.	Singh, H., <b>Kumar Pradeep (2007)</b> , Mathematical Models of Tool Life and Surface Roughness for Turning Operation Through Response Surface Methodology, Journal of Scientific and Industrial Research, vol. 66, pp. 220-226
66.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2007)</b> , "Behavior Analysis and Resource Optimization for an Industrial System", International Journal of Industrial and Systems Engineering (IJISE), Vol. 2(4), pp 413- 443.
67.	Balan, S., Vrat, Prem, <b>Kumar, Pradeep (2007)</b> , "Reducing the Bullwhip Effect in Supply Chain with Fuzzy Logic approach". International Journal of Integrated Supply Chain Management, Inderscience_U.K, Vol.3, No.3. pp.261-283
68.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2007)</b> , "FM – A Pragmatic Tool to Model, Analyze and Predict Complex Behavior of Industrial Systems", Engineering Computations- International Journal for Computer-Aided Engineering and Software Journal, Vol 24 (4) pp.319-346
69.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2007)</b> , "Modeling and analyzing system failure behavior using RCA, FMEA and NHPPP model, International Journal of Quality and Reliability Management .Vol24(5),pp.525-546.
70.	Kansal H. K., Singh Sehijpal, and <b>Kumar Pradeep (2007)</b> . "Technology and Research Developments in Powder Mixed EDM (PMEDM)" Journal of Materials Processing Technology, 184, (1-3), pp. 32-41
71.	Kansal H. K. Singh Sehijpal and <b>Kumar Pradeep (2007)</b> . "An Experimental Study of The Machining Parameters in Powder Mixed Electric Discharge Machining (PMEDM) of Al–10%SiCp Metal Matrix Composites", <i>International Journal of Materials and Product Technology</i> (IJMPT) (Inderscience), Vol. 1, No. 4, pp. 396-411
72.	Pati, Rupesh, Vrat, Prem., <b>Kumar, Pradeep, (2007)</b> , "Three-win Strategy with Optimization approach for Recycled paper Manufacturer", International Journal of Environment and Waste Management, Vol.1, No. 2/3, 2007, 269-290
73.	Jadoun, R., <b>Kumar, Pradeep, Mishra, B. K. (2007)</b> ""Optimization of process parameters for ultrasonic drilling (USD) of advanced engineering ceramics using Taguchi approach"", International Journal of Engineering Optimization, Vol. 38, No. 7, pp 771 - 787
74.	Jadoun, R., <b>Kumar, Pradeep, Mishra, B. K. (2007)</b> ""Optimization of MRR in ultrasonic drilling (USD) based on Taguchi's robust design methodology", Int. J. Machining and Machinability of Materials, Vol.1, No. 4, pp.445-462.
75.	Kansal H. K. Singh Sehijpal and <b>Kumar Pradeep (2007)</b> "Effect of powder mixed EDM on machining characteristics of HCHCr Tool Steel" SME Journal of Manufacturing Processes, Vol. 6, No. 2, pp. 11-20
76.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep, (2007)</b> Reliability Analysis of Repairable Systems using NHPPP Models ' Industrial Engineering Journal, IIIE , Vol.36 (2) pp 25-33
77.	Balan, S., Vrat, Prem., <b>Kumar, Pradeep, (2007)</b> , A Strategic Decision Model for the Justification of Supply chain as Means to Develop National Development Index", International Journal of Technology Management, Inderscience, UK Vol. 40, No.1/2/3, pp. 69-86.

78.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2007)</b> , "An integrated approach to analyse System Behaviour using Knowledge Based ARMS International Journal Of Reliability and Safety . Vol 1 (3) pp 313-338
79.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2007)</b> , "Modeling system behavior for risk and reliability analysis using KBRAM, Quality and Reliability International, Vol.23 pp 973-998
80.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2007)</b> , "A Framework to Implement QCS through Process Cost Modeling. TQM Magazine". Vol. 19, No. 1, pp. 18 - 36
81.	Kumar, Sudhir, <b>Kumar, Pradeep, Shan, H.S. (2007)</b> , "Effect of Evaporative Pattern Casting Process Parameters on Surface Roughness of Al-7%Si alloy Castings". Journal of Material Processing and Technology, Paper No. MSH 2361, Vol. 182, Issue 1-3, pp. 615-623.
82.	Dvivedi Akshay & <b>Kumar Pradeep (2007)</b> , "Surface Quality Evaluation in Ultrasonic Drilling Through the Taguchi Technique," International Journal of Advanced Manufacturing Technology, Publisher: Springer London, ISSN: 0268-3768 (Paper) 1433-3015 (Online), Vol. 34, pp 131-140
83.	Walia R.S., Shan H.S., <b>Kumar Pradeep (2006)</b> , "Abrasive flow machining with additional centrifugal force applied to the media", Machining Science and Technology an International Journal, USA, vol. 10, pp. 341-354
84.	Jadoun, R., <b>Kumar, Pradeep, Mishra, B. K. (2006)</b> "Manufacturing process optimization for tool wear rate in ultrasonic drilling (USD) of engineering ceramics using the Taguchi method", International Journal of Machining and Machinability of Materials, Vol 1. No.1, pp 94-114
85.	Walia R.S., Shan H.S., <b>Kumar Pradeep (2006)</b> , "Parametric optimization of centrifugal force assisted abrasive flow machining (CFAAFM) By the Taguchi Method", Journal of Materials and Manufacturing Processes, USA, Vol. 21, Issue 4 & 5, pp 375 - 382
86.	Balan, S., Vrat, Prem., <b>Kumar, Pradeep (2006)</b> , System Dynamics Modeling for a Supply Chain Management Index for the Indian Automobile Sector, International Journal of Management and Systems, Australia, Vol. 22, No. 2, pp. 123-146
87.	Walia R.S., Shan H.S., <b>Kumar Pradeep (2006)</b> ., "Multi-response optimization of centrifugal force assisted abrasive flow machining (CFAAFM) process through Taguchi method and Utility concept", Journal of Materials and Manufacturing Processes, vol. 21, pp. 907-914.
88.	Singh, H., <b>Kumar, Pradeep (2006)</b> , "Optimizing feed force for turned parts through Taguchi Technique", Sadhana – Academy Proceedings in Engg Sciences, Vol. 31, Part 6, pp. 671-681
89.	Walia R.S., Shan H.S., <b>Kumar Pradeep (2006)</b> , "Finite Element Analysis of media used in Centrifugal Assisted Abrasive Flow Machining Process", Proceedings of the Institution of Mechanical Engineers, Journal of Engineering Manufacture, Vol. 220, No. 11, pp. 1775 – 1785, 2006
90.	Kumar, Sudhir, <b>Kumar, Pradeep, Shan, H.S.(2006)</b> , "Statistical Analysis of Surface Roughness of Castings produced by Vacuum Assisted Evaporative Pattern Casting Process", Indian foundry Journal, Vol. 52, No.12, December 2006, pp. 25-34

91.	Sharma, Neeraj, Balan, S., Vrat, Prem., <b>Kumar Pradeep (2006)</b> , "Analysis of Bullwhip Effect in Reverse Supply Chain", Journal of Advances in Management Research, Vol III, pp 18-33
92.	Balan, S., Vrat, Prem, and <b>Kumar, Pradeep (2006)</b> "Assessing the Challenges and Opportunities of Global Supply Chain Management", International Journal of Value Chain Management, Inderscience, UK, Vol 1, No. 2, pp. 105-116
93.	Singh, H., <b>Kumar, Pradeep (2006)</b> , "Optimizing multi-machining characteristics through Taguchi's approach and Utility Concept", International Journal of Manufacturing Technology Management, Vol. 17, No. 1 & 2, pp 255-274
94.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2006)</b> , "Manufacturing Excellence Through TPM Implementation - A practical analysis", Industrial Management and data systems, U.S.A, Vol. 106, No.1 & 2, pp 256-280
95.	Pati, Rupesh, Vrat, Prem., <b>Kumar, Pradeep, (2006)</b> , "Economic Analysis of Paper Recycling vis-a-vis Wood as Raw Material", International Journal of Production Economics, Vol. 103, 2006, 489-508.
96.	Singh, Balwinder, <b>Kumar, Pradeep</b> , Mishra, B .K. <b>(2006)</b> "Parametric Optimization of Slurry Composition used in Ceramic Shell Investment Casting Process through Taguchi Method" Indian Foundry Journal, Vol. 52, No.10, pp. 25-33
97.	Alaknanda, Anand, R.S., <b>Kumar, Pradeep (2006)</b> , " A Comparative Study of Region growing & Morphological Edge Detection Segmentation Technique to Detect the Flaws in Weldments", Indian Welding Journal, Vol. 39, No. 2, pp. 36 – 40.
98.	Alaknanda, Anand, R.S., <b>Kumar, Pradeep (2006)</b> , " Flaw Detection in Radiographic Weld Images using Morphological Approach", NDT & E International, Elsevier, Vol. 39, pp. 29 – 33
99.	Singh, Balwinder, <b>Kumar, Pradeep</b> , Mishra, B .K. <b>(2006)</b> "Experimental Investigation of wax Blends in Investment Casting Process", Indian Foundry Journal, Vol. 52, No.3, pp. 29-36
100.	Kumar, Sudhir, <b>Kumar, Pradeep</b> , Shan, H. S., <b>(2006)</b> , "Comparative study of some refractory fillers materials with Zircon flour in Evaporative Pattern casting process". Transaction of American Foundry-men Society, U.S.A., Vol. 104, pp. 987-1000
101.	Kansal H. K. Singh Sehijpal and <b>Kumar Pradeep (2006)</b> . "Performance Parameters Optimization of Powder Mixed Electric Discharge Machining (PMEDM) by Taguchi Method" I. Journal of Engineering & Materials Science (IJEMS), Vol.13, No. 3, pp. 209-216
102.	Kumar, Sudhir, <b>Kumar, Pradeep</b> , Shan H.S., <b>(2006)</b> "Parametric Optimization of Surface Roughness of Castings Produced by Evaporative Pattern Casting Process". Materials Letters, Paper No. 05-y-0887, pp. 3048-3053
103.	Pati, Rupesh, Vrat, Prem., <b>Kumar, Pradeep (2006)</b> , "Integrated Chain Analysis of Recycled vis-à-vis Wood Pulp Paper Industry – An Indian Manufacturer View Point", International Journal of Value Chain Management, Vol. 1, No.1, 44-63

104.	Kansal H. K. Singh Sehijpal and <b>Kumar Pradeep (2006)</b> . "Performance Parameters Optimization (Multi-characteristics) of Powder Mixed Electric Discharge Machining (PMEDM) Through Taguchi's Method and Utility Concept", W.I. Journal of Engineering (WIJE). Vol. 29, No.1 pp. 81-94
105.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2005)</b> , "FLM to Select Suitable Maintenance Strategy in Process Industries Using MISO Model", International Journal of Quality in Maintenance Engineering (JQME), Vol. 11, No. 4, pp 359 -374
106.	Kumar, Rajeev, Kumar Dinesh, <b>Kumar, Pradeep (2005)</b> , "Systematic Failure Mode Effect Analysis (FMEA) using Fuzzy Linguistic Modeling – A case Study", International Journal of Quality and Reliability Management, IJQRM, Vol. 22, Issue 9, pp 986 - 1004
107.	Kansal Harmesh, Singh, S., <b>Kumar, Pradeep (2005)</b> , "Application of Taguchi Method for Optimization of Powder Mixed Electrical Discharge Machining", International Journal of Manufacturing Technology and Management (IJMTM), Elsevier, Vol. 7, No. 2/3/4, pp. 329-341
108.	Kumar, Sudhir, <b>Kumar, Pradeep</b> , Shan, H.S., <b>(2005)</b> "Effect of Process Variables on Sand Mold Properties in EPC Process using Response Surface Methodology", Indian Foundry Journal, Vol 51, no. 12, pp 21-33
109.	Alaknanda, Anand, R.S., <b>Kumar, Pradeep (2005)</b> , " Detection of Flaws in Weldment Images Using Region Growing Segmentation Technique", Indian Welding Journal, Vol. 38, No. 3, pp. 39 – 41.
110.	Kansal H. K. Singh Sehijpal and <b>Kumar Pradeep (2005)</b> . "Parametric Optimization of Powder Mixed Electrical Discharge Machining by Response Surface Methodology" Journal of Materials Processing Technology (JMPT), Elsevier, Vol 169/3, pp 427 - 436
111.	Singh, H., <b>Kumar, Pradeep (2005)</b> , "Optimizing cutting force for turned parts using Taguchi's parameter design approach", Indian Journal of Engineering & Materials Sciences (IJEMS ), Vol. 12, pp 97-103