

PROF.D.K.SINGH
Ph.D. (IIT/K)
Director, Government Engineering College, Azamgarh (UP),
Constituent College: Dr.APJ Abdul Kalam Technical University, Lucknow
(Formerly UPTU)
(Professor, Mechanical Engineering Deptt.
Madan Mohan Malaviya University of Technology
(Formerly M.M.M.Engineering College) Gorakhpur-273010)
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Personal Information

Name: Dr.Dhirendra Kumar Singh **Designation:** Director
Father's Name: Late Professor Raghuvveer Singh
Date of Birth: 7th June, 1963
E-mail: dhirenks@gmail.com, director@mkecit.ac.in
dks_iitk@rediffmail.com
Nationality: Indian
Address for Professor Mechanical Engineering Department
Communication: M.M.M.UNIVERSITY OF TECHNOLOGY (Formerly
M.M.M.Engg.College) , Gorakhpur-273010 (India)
Permanent Address: C-159, Sector –C, Mahanagar, Lucknow (India)
Teaching & Research 26 years of teaching & research experience at
Experience: M.M.M.University of Technology (M.M.M.Engg. College),
Gorakhpur (UP), India, Indian Institute of Technology
Roorkee (India), Indian Institute of Technology Kanpur
(India), and University of Garyounis, Benghazi, Libya
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August 2015
Place: Gorakhpur

Signature

Education:

- **Ph.D.** (2006) Mechanical Engineering with the specialization in Advanced Manufacturing Technology, **Indian Institute of Technology Kanpur, Kanpur (India)**.
- **M. E.** (1997) Production & Industrial System Engineering, **University of Roorkee, Roorkee (India) (Now Indian Institute of Technology Roorkee)**.
- **B.E.** (1985) Mechanical Engineering, **Madan Mohan Malaviya Engineering College, University of Gorakhpur (India)**.

Teaching and Research Experience:

- **Director**, Government Engineering College (Formerly Manyawar Kanshi Ram Engineering College of Information Technology), Azamgarh (UP), Constituent College of U.P. Technical University, Lucknow (Being run in the Campus of M.M.M. University of Technology, Gorakhpur) from 20 January 2015 to till date.
- **Head**, Department of Mechanical Engineering, Madan Mohan Malaviya University of Technology (Formerly Madan Mohan Malaviya Engineering College), Gorakhpur (28th February 2013 to 19th January 2015)
- **Professor** of Mechanical Engineering, Madan Mohan Malaviya Engineering College, Gorakhpur (**01, January 2008 to till date**).
- **Assistant Professor** of Mechanical Engineering, Madan Mohan Malaviya Engineering College, Gorakhpur (01, January 2000 to 31-12-2007).
- **Assistant Professor**, Mechanical Engineering Department, University of Garyounis, Libya, North Africa (October 2006 to July 2007).
- **Lecturer** of Mechanical Engineering, Madan Mohan Malaviya Engineering College, Gorakhpur (February 1988 to December 1999).
- **Research Scholar**, Mechanical Engineering Department, Indian Institute of Technology Kanpur (July 2000 to February 2005).
- **Master Fellow**, Mechanical & Industrial Engineering Department, University of Roorkee, Roorkee, (July 1995 to February 1997).

Patent:

Indian Patent on “**A Method for Magnetic Abrasive Finishing using a Pulsating Flexible Magnetic Abrasive Brush and a Magnetic Abrasive Finishing Device**” Patent Application No. 1990/DEL/2005A filed Dated 27-07-2005 and Published on Patent Journal on 13-07-2007 **International Classification: B24B 31/00**

Academic Research Project:

- **Micro to Nano finishing by Pulsating Flexible Magnetic Abrasive Brush Funded by UGC as MRP Rs 10.00 Lacs 2013-2016**
- **“Design and Development of Wave guide for microwave power transmission in space antenna”, Space Application Center, ISRO, Ahamdabad, Gujarat (India) 2010-2011.**

Member, Expert Committee , National Board of Accreditation India

Member, EXPERT COMMITTEE AICTE, New Delhi

Member, APPALEATE COMMITTEE AICTE, New Delhi

Administrative Experience at U.P.Govt. Level

- **Nodal Officer (Monitoring & Evaluation) for TEQIP Phase II Since January 2012**
- **Expert Member for Evaluation of Engineering Project, Council of Science & Technology, UP Government.**

Administrative Experience at the University

- Director, Manyawar Kanshiram Engineering College of Information Technology, Azamgarh (being run in the campus of M.M.M.University of Technology, Gorakhpur: 20th January, 2015 to till date**
- Head of the Mechanical Engineering Department, Madan Mohan Malaviya University of Technology(Formerly M.M.M.Engineering College) : 01 March 2013 to 19 January 2015**
- DEAN PLANNING : July 2010 to 19 January 2015**
- Dean Planning, Research, Development & Consultancy: 01 July 2010 to 30 August 2012**

- Project Proposal Formulation/Preparation for Academic Autonomy Submitted in August 2010 to GBTU, Lucknow and Granted Autonomy July 2011 by UGC, New Delhi),
- Preparation of Project Proposal for New QIP Center Submitted in July 2011 and Granted by AICTE in August 2011.
- M.Tech. Accreditation Visit was organized.
- Proposal for Improving Employability of Graduates passing out from UPTU Institutions submitted to UPTU, Lucknow.

(v) Coordinator, QIP Center since August 2011 to January 19, 2015

(vi) Member, Academic Council, M.M.M.Engineering College, Gorakhpur

(vii) Controller of Examination: July 2009 to January 19, 2015

- After grant of Academic Autonomy, Organized Three Class Test, End Semester Examination 2011-12, Implementation of Examination software Evaluation of Answer Books, Showing of Answer books, Implementation of errors, if any through Grievances Cell, Preparation of Results and Declaration of the results

(viii) Chief Warden: September 2009 to 30th June 2010

(ix) Warden : 7 Years

(x) Proctor: July 2005 to July 2006.

(xi) Member Discipline Committee

(xii) Member Academic Excellence Committee constituted for TEQIP Phase-I (2005 to till date)

(xiii) Convener, Departmental World Bank Committee for TEQIP

(xiv) Deputy Dean of Students (July 2006 to July 2007).

(xv) NCC officer from June, 2008 to December 2009

(xvi) O/Cs of Cricket, Badminton, and Table Tennis

(xvii) Judges in various technical events, sports activities

(xviii) Actively involved in most of the functions organized at Departmental and College level.

Interaction with U.P. Technical University, Lucknow

- Member, Moderation Committee since 2006
- Group Leaders for Even/Odd Semester Examinations since 2007
- Head Examiner for Evaluation of Answer Books since 2007
- Paper setter for B.Tech./M.Tech. Mechanical Engineering Courses since 2006
- Expert for the evaluation of M.Tech. Dissertations
- Head Examiner for Evaluations of M.Tech. Answer Books
- Organized Center Evaluation for M.Tech. Answer Books
- Member, Inspection Committee formed by the University

Selected Publications:

Refereed Journals/International/National Conferences.

1. A Technical Paper “**Quality Optimization of Green Sand Castings**” Dharendra Kumar Singh and Pradeep Kumar, Indian Foundry Journal, 1997, pp 23-33.
2. **Parametric Study of Magnetic Abrasive Finishing (MAF) Process**, Journal of Material Processing Technology, April 2004, pp22-29.
3. **Analysis of Surface Texture generated by Flexible Magnetic Abrasive Brush**, D. K. Singh, V.K.Jain, and V.Raghuram, R.Komanduri, WEAR, 259(2005) 1254-1261.
4. **On the process performance of Flexible Magnetic Abrasive Brush**, Dharendra Kumar Singh, V.K.Jain, and V.Raghuram, Machining Science and Technology, 9:601-619, 2005.
5. **Experimental Investigations into Forces acting during Magnetic Abrasive Finishing Process**. Dharendra Kumar Singh, V.K.Jain, and V.Raghuram, Int. Jr. of Advanced Manufacturing Technology, Vol. 30, 7-8, October 2006 pp 652-662.
6. **Analysis of performance of Pulsating Flexible Magnetic Abrasive Brush (P-FMAB)**, Vijay Kumar Jain, Dharendra Kumar Singh, and Vidyala Raghuram, Machining Science & Technology, International Journal, Vol 12, Issue 1, January 2008, 53-76.
7. **Experimental Investigation and Mathematical Modeling of Cutting Edge**

- Temperature for Turning Process**, International Journal of Engineering Studies. ISSN 0975- 6469 Volume 3, Number 2 (2011), pp. 149-157.
8. **Optimization of Turning Process Parameters**, D.K.Singh & Chandan Bhagat, ISST Journal of Mechanical Engineering, ISSN: 0976-7371, Jan-June 2011, pp 45-56.
 9. **Modeling and Analysis of Solidification in Casting Process**, Jawed Rafiq & D.K.Singh, International Journal of Mechanics and Solids. ISSN 0973-1881 Volume 6, Number 3, 2011, pp. 175-189.
 10. **Modeling and analysis of mould filling in Injection Moulding**, Arvind Kumar Singh & D.K.Singh , International Journal of Engineering Research and Technology.ISSN 0974-3154 Volume 4, Number 5,2011, pp. 463-470
 11. **Process Planning of micro electro chemical machining process**, Rakesh Kumar Singh & D.K.Singh, International journal of applied science and technology "ISSN 2231-3842,PAGE NO: 50,VOL I, April2011.
 12. **Strategic Optimization and Investigation effect of Process Parameters on Performance of Wire Electric Discharge Machine (WEDM)**, Atul Kumar & D.K.Singh, International Journal of Engineering Science and Technology,Vol 4 No. 06 June 2012 (ISSN: 0975-5462, pp 2766-2772.
 13. **Analysis and Effect of input Process Parameters on Surface Roughness and Tool Flank wear in Turning Operation**, Badru Doza and D.K.Singh, International Journal of Engineering Science and Technology,Vol 4 No. 06 June 2012 ,ISSN: 0975-5462, pp 2759-2765.
 14. **Analysis and Effect of input Process Parameters on Surface Roughness and Tool Flank wear in Facing Operation**, Badru Doza and D.K.Singh, International Journal of Engineering Research and Technology,Vol 1 No.4 June 2012 ISSN: 2278-0181), pp 1-7.
 15. **Performance Analysis of Wire Electric Discharge Machining (W-EDM)**, Atul Kumar & D.K.Singh, International Journal of Engineering Research & Technology, Vol 1(4), June 2012, ISSN: 2278-0181, pp1-8.
 16. **Process Planning of Micro Electro-Chemical Machining Process**, Rakesh Kumar Singh & D.K.Singh, International Journal of Applied Science and

- Technology, (2011) ISSN 2231-3842, pp 50-60.
17. **On the Analysis of Molten Metal Flow through Sprue in Casting Process**, Mohd. Imran Ansari & D.K.Singh, International Journal of Engineering Research & Technology, ISSN: 2278-0181 Vol(1) Issue 4, August 2012.
 18. **Modelling and Analysis of Mold Filling Parameters for PP and ABS Materials Using Software Simulation**, Arvind Kumar Singh & D.K.Singh, International Journal of Engineering Research & Technology, ISSN: 2278-0181, Vol 1 Issue 7, September 2012.
 19. **Material Processing Technology for Soft Ferrites Manufacturing** Deepak Bhalla, DK Singh, SK Aggarwal, Dipti Seth, American Journal of Material Science 2012, 2(6): 165-170.
 20. **Control parameters Optimization of Wire-EDM by using Genetic Algorithm**, Rajneesh K Singh & D.K.Singh, International Journal of Mechanical, Civil, Automobile and Production Engineering, Vol 3, issue 9, September 2013, pp327-332.
 21. **Parametric optimization of Wire-EDM by using Fuzzy Logic**, Rajneesh Kumar Singh, D.K.Singh, Vivek Kumar, IJBSTR RESEARCH PAPER, Vol 1 Issue 8, August 2013, pp 37-41 **ISSN 2320 – 6020**.
 22. **Modelling and Optimization of Magnetic Abrasive Finishing Process**, Asit shukla & D.K.Singh, International Journal of Engineering Research & Technology, Vol.2 - Issue 9 (September - 2013). **E-ISSN: 2278-0181**.
 23. **Application of MATLAB IN MODELING and Optimization of Unconventional Finishing Process**, Asit Shukla, Shah Fateh Azam, Dr. D. K.Singh, International Journal of Engineering Research & Technology, Vol.2 - Issue 9 (September - 2013). **E-ISSN: 2278-0181**.
 24. **Optimization of Electric Discharge Machining Process Parameters Using Genetic Algorithm**, Shah Fateh Azam, Dr. D. K.Singh, International Journal of Engineering Research & Technology, Vol.2 - Issue 9 (September - 2013), **E-ISSN: 2278-0181**.
 25. **Mathematical Modeling of Material Removal Rate (MRR) in EDM using Neural Network and Regression**, Arun Singh & D.K.Singh, 2nd International

Conference on Advances in Mechanical, Manufacturing and building Sciences (ICAMB-2012) held during Jan 9-12, 2012 .

26. **Nano finishing by Pulsating Flexible Magnetic Abrasive Brush (P-FMAB)**, D.K.Singh, V.K.Jain, V.Raghuram, 23rd ASPE Annual Meeting and 12th ICPE , *October 19-24, 2008, Porland, Oregon, USA*
27. **On the Process Performance of CI engine using Bio-fuels**, Narendra Singh, D.K.Singh,B.B.Singh, 16th European Biomass Conference and Exhibition, June 2-6,2008 Valencia, Spain.
28. **Adoption of Manufacturing Best Practices and Advanced Manufacturing Technology in India**, D.K.Singh and Sanjay Kumar, International Conference on Decision Sciences and Technology for Globalization, January 2-4, 2008, Institute of Management Technology, Ghaziabad, Inida.
29. **Acquisition of Force Data during Magnetic Abrasive Finishing by Computer- based Data Acquisition System (DAQ)**, International Conference on Laboratories, University of Garyounis, Benghazi, Libya 29-31st May 2007.
30. **“On the temperature analysis of magnetic abrasive grinding”** 22nd Annual Conference, American Society for Precision Engineering (ASPE), October 15-20, 2006.Monterey, California , USA,
31. **Surface roughness and surface texture generated by Pulsating Flexible Magnetic Abrasive Brush**, Dhirendra K.Singh, V.K.Jain, V.Raghuram, R.Komanduri, ASME World Tribology Congress, September 12-16, 2005 Washington DC, USA.
32. **Parametric Study of Magnetic Abrasive Finishing (MAF) Process**, 14th International Symposium for Electromachining, The University of Edinburgh, Scotland, UK, 30th March-1st April 2004.
33. **Experimental Investigations into Magnetic Abrasive Finishing of Alloy Steels**, Dhirendra K. Singh, V.K.Jain, and V.Raghuram, Proceeding of JSME sponsored International Conference on Leading Edge Manufacturing in 21st Century, Niigata, Japan, November 3-6, 2003. pp 406-410.
34. **Superfinishing of Alloy Steels using Magnetic Abrasive Finishing Process**, Dhirendra K.Singh, V.K.Jain, and V.Raghuram, 18th Annual Conference,

American Society for Precision Engineering (ASPE), Portland, Oregon, USA, October 26-31, 2003.

35. **Electrochemical Spark Machining (ECSM): A Review**, D.K.Singh, V.K.Jain, and V.Raghuram, Proceeding of the National Symposium on Manufacturing Engineering in Twenty First Century, Indian Institute of technology Kanpur, India, March 2-3, 2001, pp 139-142.
36. **“Micro Machining by Magnetic Abrasive”** D.K.Singh, National Conference on Emerging Trends in Mechanical Engineering ETME-2011” held during September 17-18, 2011 at FET-RBS, Agra.
37. **Experimental Investigation of Cutting Edge Temperature during Turning Process**, Brijendra Gupta & D.K.Singh, National Conference on Emerging Trends in Mechanical Engineering , September 17-18, 2011 at FET-RBS, Agra.
38. **“Optimization of Turning Process Parameters”**, Chandan Bhakat & D.K.Singh, Proceedings of Emerging trends in Mechanical Engineering (ETME-2009) October 12-13, pp125-133, ISBN 93-8004339-2.
39. **Recent Developments in Electro-Chemical Machining Process”**, Rakesh Kumar Singh, D.K.Singh, Proceedings of Emerging trends in Mechanical Engineering (ETME-2009) October 12-13, pp143-149, ISBN 93-8004339-2.
40. **Modeling and Simulation of Deep Drawing Process Based on One-Step Inverse Metal Forming Analysis**, D.K.Singh & Manish Kumar Singh, International Journal of Metal Forming, Communicated, September , 2011.
41. **Analysis of Molten Metal Flow through Sprue Using Fluent**, Mohd. Imran Insari & D.K.Singh, Souvenir of National Conference on “ Emerging Trends in Mechanical and Electrical Engineering, 12-13, June 2012.
42. **Electrochemical Spark Machining Process for non conducting materials: A Review**, R.K.Singh, D.K.Singh, Manoj Kumar “International Journal of Innovations in Engineering and Technology (IJIET)”Volume 7 issue1, 2016, ISSN: 2319 – 1058, pp 328-334.

Participated in International/National Conferences

1. Presented Key Note in a Conference on National Conference on Advances in

Manufacturing Technology, NCAMT2013 on 23-24 May 2013 at NITTTR Chandigarh.

2. Presented Key Note Paper titled “ Micro Machining by Magnetic Abrasive” National Conference on Emerging Trends in Mechanical Engineering ETME-2011” held during September 17-18, 2011 at FET-RBS, Agra.
3. Presented a paper on “Surface roughness and surface texture generated by Pulsating Flexible Magnetic Abrasive Brush”, ASME World Tribology Congress, September 12-16, 2005 Washington DC, USA.
4. Presented a Paper on “Experimental Investigations into Magnetic Abrasive Finishing of Alloy Steels” in International Conference on Leading edge Manufacturing, held at Niigata, Japan during *November 3-6, 2003*.
5. Participated in First National Conference on “Precision Engineering” organized by Mechanical Engineering Department, Indian Institute of Technology Madras, Chennai held during Jan 12-13, 2000.
6. Participated in “20th All India Manufacturing Technology Design and Research Conference” at BITS Ranchi, Dec 13-15, 2001.

Peer Reviewer

- **Journal of Material Processing Technology, Elsevier Publication since 2006.**
- **Internal Journal of Advanced Manufacturing Technology, Springer Verlag Publication since 2006.**
- **iMECH E-Part-B, Journal of Engineering Manufacture. SAGE Publication UK since 2014**
- **International Journal of Precision Technology (IJPTECH), InderScience Publishers since 2015**
- **International Journal of Manufacturing Technology and Management (IJMTM), InderScience.**
- **International Journal of Manufacturing Technology Research (IJMTR).**
- **All India Machine tool, design and research 2010.**
- **IEEE Sponsored Conference titled: “Students’ Conference on Engineering and Systems (SCES-2012)” from March 16 to 18, 2012 at Motilal Nehru National**

Invited Lectures/Talks

1. Experimental aspects of Magnetic Abrasive Finishing Process Short Term Course on "Micromanufacturing" during June 29, 2015 to July 03, 2015 organized by Mechanical Engg. Deptt., Indian Institute of Technology Kanpur.
2. Micro to nano abrasive finishing, Short Term Course entitled "Micromanufacturing: Materials, Processes and Systems (MMPS-2014)" during June 17-21, 2014 at MED, MNNIT, Allahabad.
3. Micro Manufacturing by FMAB, BARC & QIP sponsored course on "Micro Manufacturing" held during 01st April 2014 at Indian Institute of Technology Kanpur.
4. Key note speaker in National Conference on Advances in Manufacturing Technology, organized by NITTTR Chandigarh May 23-24, 2013.
5. Delivered lecture in National Symposium on Miniature Manufacturing in 21st Century (NSMMIC 2013) organized by Mechanical Engineering Department, IIT-BHU held during August 16-18, 2013.
6. Micro manufacturing by Magnetic Abrasive, BARC & QIP sponsored course on "Micro Manufacturing" held during November 5-9, 2012 at Indian Institute of Technology Kanpur.
7. Advanced Techniques of shaping advanced & Smart Materials, Proceeding of AICTE Sponsored National Seminar on "Active & Smart Materials" held during March, 23-24, 2012 organized by Department of Applied Science (Physics), Madan Mohan Malaviya Engineering College, Gorakhpur, pp 10-11, ISBN 938206210-6.
8. BARC & QIP sponsored course on "Micro Manufacturing" held during September 30-October 4, 2011 at Indian Institute of Technology Kanpur.
9. Ajay Kumar Garg Engineering College, Ghaziabad during August 02, 2011.
10. BARC sponsored course on "Micromanufacturing using MAF being held during Sep. 02 to Sep. 08, 2010 2009 at Indian Institute of Technology Kanpur.
11. Mechanical Engineering Department, GLA Mathura, Delivered lecture on Advanced Fine Finishing Processes, on 02-12-2009 to Final Year Mechanical Engineering

Students.

12. Mechanical Engineering Department, BSA College of Engineering & Technology, Agra, Delivered lecture on Advanced Fine Finishing Processes, on 02-12-2009 to Final Year Mechanical Engineering Students
13. DST & BARC sponsored course on Micro Machining held during July 20-July 25, 2009 at Indian Institute of Technology Kanpur.
14. BARC & AICTE Sponsored Short Term Course on “Micromachining” held during October, 7-11, 2008 at Indian Institute of Technology Kanpur (India)
15. AICTE Staff development Programme on CAD/CAM Applications in product development and manufacturing held during June 16-27, 2008 at MNNIT Allahabad (India).
16. TEQIP sponsored workshop on “ Nano Technology” organized by Electronics & Communication Engineering Department, M.M.M.Engineering College, Gorakhpur held during April 5-6,2008
17. QIP Short Term Course on “Introduction to Micro Manufacturing Technologies” held during February, 24-28, 2008 at Indian Institute of Technology Guwahati (India)
18. QIP Short Term Course on “Micro Machining” held during October, 25-29, 2005 at Indian Institute of Technology Kanpur (India)
19. QIP Short Term Course on “Advanced Machining Processes” held during October, 18-23, 2004 Indian Institute of Technology Kanpur (India).

State-of-the-art Training

1. Carried out 15 days State-of –Art research in the area of Manufacturing Science at Indian Institute of Technology Kanpur in the month of October/November 2007.
2. AutoCAD-2009 by Autodesk.

Books Published

1. Proceedings of National Conference on Futuristic in Mechanical Engineering FME-2014, Year of Publication March 2014.
2. Book Chapter on “Micro Manufacturing by Magnetic Abrasive” Taylor & Francis, USA.2013
3. Emerging Trends in Mechanical Engineering
ISBN 93-80043-39-2
Publisher : Excel India Publishers, New Delhi

- Year of Publication: 2009, Editor
4. Labs Training for Technical Supporting Staff
Year of Publication: March 2009, Editor
 5. Composite Materials & Processing
Year of Publication: 2008, Editor
 6. Advanced Manufacturing Technology, Year of Publication: 2006, Editor

Organized Conferences/ Workshops/ Schools

1. 30th National Convention of Mechanical Engineers & National Seminar on Green Technology organized by Institutions of Engineers held on September 27-28, 2014 as Co-Convener.
2. National Conference on “Futuristic in Mechanical Engineering” FME-2014 held during March 8-9, 2014.
3. Organized a Staff Development Programme under TEQIP on “Technical Art” for the Staff of the Mechanical Workshop held during April 22-23, 2013. Resource Person: Mr.Phool Chand. TA LAB, IIT Kanpur.
4. National Conference on “Emerging Trends in Mechanical Engineering” ETME-2011 Organized by FET-RBS, Agra held during September 17-18, 2011.
5. Organized a AICTE & TEQIP Sponsored National Conference on “Emerging Trends in Mechanical Engineering” ETME-2009 held during October 12-13, 2009.
6. Organized a short term Practical Course on “Workshop on Labs Training for Technical Supporting Staff” in a Staff Development Programme held during March 20-22, 2009 & sponsored by Technical Education Quality Improvement Programme, Govt. of India.
7. Organized a short term Practical Course on “Technical Art” in a Staff Development Programme for the staff of the Mechanical Workshop held during July 14-18, 2008 and sponsored by Technical Education Quality Improvement Programme, Govt. of India.
8. Organized a short-term course on “Composite Materials and Processing” held during March 15-16, 2008 sponsored by World Bank Assisted Technical Education Quality Improvement Programme (TEQIP).

9. Organized a short-term course on “Advanced Manufacturing Technology” held during Feb, 27-28, 2006 sponsored by World Bank Assisted Technical Education Quality Improvement Programme (TEQIP).

Courses Taught

S. N.	Course Title	Level
1.	Workshop Technology	UG (First year)
2.	Manufacturing Science-I	UG (second year)
3.	Manufacturing Science-II	UG (Third Year)
4.	Unconventional Manufacturing Processes	UG (Fourth Year)
5.	Project Management	UG (Fourth Year)
6.	Mechanical System Design	UG (Fourth Year)
7.	Computer Aided Manufacturing	UG/PG
8.	Advanced Manufacturing Technology	PG
9.	Machining Science	PG
10.	B.Tech Project	UG
11.	M.Tech Thesis Dissertation	PG

Short term Courses/Workshop attended

1. FDP sponsored by TEQIP on “Engineering Education in 21st Century” organized by Engineering Staff College, Hyderabad held during June 2-6, 2013.
2. FDP Sponsored by TEQIP on “Management Capacity Enhancement Programme for administrators” organized by Indian Institute of Management Lucknow-Noida Campus held during August, 19-23, 2014
3. Workshop on “Outcome based Accreditation System”, Organized by National Board of Accreditation, New Delhi held at Delhi Technological University during 21-22 September 2012.
4. One day Workshop on “Quality Improvement Programme” organized jointly by AICTE, New Delhi & IISc Bagalore held on September 11, 2012.
5. Workshop on “Mechanism to Map Industry Linkages of Institutes” AICTE-CII University – Industry Congress 2012 held on 26th July 2012 at Indian Habitat Center, New Delhi.
6. BARC & QIP sponsored course on “Micro Manufacturing” held during September 30-October 4, 2011 at Indian Institute of Technology Kanpur.
7. DST & BARC sponsored course on “Micro Machining” held during July 20-July 25,

- 2009 at Indian Institute of Technology Kanpur.
8. Quality Improvement Programme (QIP) School on Micro Manufacturing held during February 24-28, 2008 at Indian Institute of Technology Gwahati.
 9. QIP Sponsored School on “Micromachining” held during October 25-29, 2005 at IIT Kanpur.
 10. QIP Sponsored School on “Advanced Machining Processes” held during October 18-23, 2004 at IIT Kanpur.
 11. Department of Science & Technology sponsored 3rd SERC School on “Precision Engineering” at Indian Institute of Technology Kanpur, June 10-19, 2002.
 12. QIP sponsored course on “Business Intelligence for Decision Making: Neural Network, AHP & Fuzzy Logic”, May 21-25, 2001 at I.I.T. Kanpur.
 13. Participated in “20th All India Manufacturing Technology Design and Research Conference” at BITS Ranchi, Dec 13-15, 2001
 14. Participated in First National Conference on “Precision Engineering” at Indian Institute of Technology Madras, Chennai, Jan 12-13, 2000.
 15. Continuing Education Programme short-term course on “N.C. Machine Tools and Part Programming” at I.I.T.Kanpur, Sept 21-26, 1998.
 16. DST Sponsored SERC School on “Advanced Manufacturing Technology”, at Indian Institute of Technology Delhi, Nov 2-14, 1998.
 17. Summer School on “Surface Engineering” at Indian Institute of Technology Kharagpur, June 21-July 3, 1993.
 18. Summer School on “Finite Element Method for Mechanical Engineering” at REC Surat, June 7-19, 1993.

Ph.D. Supervision

1. **Mr.Rakesh Kumar Singh, Lecturer, MIET, Meerut** under Progress on “**Experimental Investigations into Electrochemical Spark Machining of non-conducting materials**” U.P.Technical University Lucknow.
2. **Mrs Sumita Sahoo, Engineer HAL, Lucknow** on the topic “**“Deep Hole drilling into alloy steel by Electrochemical Machining using Direct & Pulsating Current”**”. U.P.Technical University Lucknow.
3. **Arun Pratap Singh, Lecturer, Latest Trends in Electric Discharge Machining,**

M.Tech. Supervised

10 Completed

04 Under Progress

Academic Interactions with Other Institutions/R&D

1. Oklahoma State University, Still water, Oklahoma, USA
2. Space Application Center, ISRO Ahamdabad.
3. Indian Institute of Technology Kanpur.
4. Indian Institute of Technology Guwahati.
5. Motilal Nehru National Institute of Technology, Allahabad.
6. Harcourt Butler Technological Institute, Kanpur.
7. Punjabi University, Patiala.
8. Institute of Engineering & Technology Lucknow.
9. Kamla Nehru Institute of Technology, Sultanpur.
10. Public Service Commission, Allahabad
11. Punjab Technical University, Kapurthala

Editorial Board Member

- Member, Editorial Board, ISST-IJME.
- Associate Member, Scientific Council, Rio's International Journal (ISSN 1982-6443) on Sciences of Industrial and Systems Engineering and Management, Brazil
- Life Member ISTE

Academic Foreign Visits

- **Japan**
- **USA**
- **North Africa**

Awards

1. **Academic Excellence Award during Alumni Convention held in November 2007.**
2. **Research and Development Award on 26th January, 2008.**

Research Interest:

- Advanced Manufacturing Technology

- Computer Controlled Manufacturing Processes
- Machining Science
- Computer Aided Process Planning (CAPP) of Manufacturing Processes (Conventional/Unconventional)
- Application of Robust Design & Design of Experiments in Engineering
- Quality Engineering

Knowledge of PC/Software

1. MS Office (Word, Excel, PPT)
2. MATLAB
3. MINITAB
4. STATISTICA
5. MATHEMATICA

Remarks

- Offered one month training in state of art Laboratory of Mechanical & Aerospace Engineering Department, Oklahoma State University, OK, USA under the supervision of Dr. Prof. Ranga Komanduri.
- Convener World Bank TEQIP Committee Phase-I of Department of Mechanical Engineering, M.M.M.Engineering College, Gorakhpur (India) and procured and Installed various Research Equipments in Advanced Machining Lab such as (i) CNC Lathe, (ii) ECM Setup, (iii) EDM (iv) Metallographic Microscopes etc.
- Written a Chapter for Book on “MicroManufacturing Using MAF” being published shortly by Taylor & Francis, USA
- Chapter for Book on “Micromachining” being published shortly by Narosa Publishing house, New Delhi
- Member, Selection Committee, Mechanical Engineering Department, Faculty of Engineering, University of Benghazi, Libya (2007).

Referee

1. **Dr. Vijay Kumar Jain**, Professor, Mechanical Engineering Department, Indian Institute of Technology Kanpur-208016 (India). **E-mail:** vkjain@iitk.ac.in, Tel No. +91-512-2597916, 2598646, Fax no. +91-512-2597408.
2. **Dr. Pradeep Kumar**, Professor, Mechanical & Industrial Engg. Deptt. Indian Institute of Technology, Roorkee (India). **E-mail:** kumarfme@iitr.ernet.in, +91-1332-285602, Fax No.+91-1332-273560
3. **Dr. V. Raghuram**, Principal Scientific Officer, Mechanical Engineering Department, Indian Institute of Technology Kanpur-208016 (India). **E-mail:** vraghu@iitk.ac.in, Tel No. +91-512-2597434, Fax No. +91-512-2597408.