
Puneet Tandon

Dean, Planning and Development
Professor of Mechanical Engineering
Professor of Design
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Areas of Interest

- ◆ CAD/CAM, Geometric Modeling for Design, Engineering & Manufacturing
- ◆ Innovative Product Design, Computational Support to Product Design, Knowledge-based Engineering
- ◆ Additive Manufacturing, Reverse Engineering
- ◆ Micro fabrication, Die-less manufacturing, etc.

Education

- **Ph.D.**, Department of Mechanical Engineering, Indian Institute of Technology Kanpur (2003).
- **Post Graduate Diploma in Management**, Indira Gandhi National Open University, New Delhi (1996). Specialization: Systems Management
- **M.Tech. (Mechanical Engineering)** Indian Institute of Technology Kanpur (January 1995).
- **Certificate Course in German**, Kurukshetra University, Kurukshetra (1993).
- **B.Tech (Hons.) (Mechanical Engineering)** Regional Engineering College (R.E.C.), Kurukshetra, (now N.I.T. Kurukshetra) India (1988).

Scholastic Achievements

- ❑ Obtained a CPI of 10.0 out of 10.0 in Ph.D.
- ❑ Topped the batch in M.Tech. program at I.I.T. Kanpur (CPI: 9.38/10.0).
- ❑ Obtained Government of India fellowships to pursue Masters and Doctorate at I.I.T. Kanpur.
- ❑ Obtained 4th rank in the class of 85 in B.Tech.
- ❑ Awarded Best Project award for the B.Tech. project.
- ❑ Secured 4th rank in the State Board in Higher Secondary (10+1).
- ❑ Secured a position in the Merit list in High School (Haryana Board).
- ❑ Bagged Government Scholarship for attaining merit positions in High School & Higher Secondary.
- ❑ Qualified National Talent Search Examination (N.T.S.E.) conducted by the Government of India.

Working Experience

Total Work Experience: 27 years

- Working as Professor of Mechanical Engineering and of Design at PDPM-Indian Institute of Information Technology, Design and Manufacturing (IITDM) Jabalpur, since June 2009.
- Worked as Associate Professor at IIITDM Jabalpur, August 2005-May 2009.
- Worked as Associate Professor (ex-Assistant Professor) of Mechanical Engineering at National Institute of Technology (NIT) Kurukshetra, August 2000 – July 2005.
- Worked as Research Engineer, CAD-P Lab, I.I.T. Kanpur from August 1998 to July 2002.
- Worked as Senior Lecturer at the R.E.C. (NIT) Kurukshetra from January 1995 to July 1998.
- Worked as Project Research Associate, CAM Lab, I.I.T. Kanpur October 1993 to Jan 1995.
- Worked as Lecturer Mechanical Engineering, R.E.C. Kurukshetra-August 1988 to July 1993.
- Worked as Graduate Engineer Trainee in Escorts Limited, Faridabad. (May to July, 1988)

Professional Accomplishments

✦ Projects / Consultancy

- Principal Investigator, BRNS Project – **Process Development for the Fabrication of Free Form Components through Incremental Sheet Forming**, 2012, Duration: 3 years. (Amount: Rs. 78.79 lakhs) (Rs. 72.45 lakhs + Rs. 6.34 lakhs)
- Co-Principal Investigator, Department of Science and Technology (Govt. of India) Project – **Development of Additive-Subtractive Integrated RP System for Improved Part Quality**, (PI: Dr. Prashant K. Jain, Co-PI: Dr. P.M. Pandey), 2014, Duration: 3 years. (Amount: Rs. 19.50 lakhs)
- Project Proposal submitted to DST-JSPS, **In-process monitoring of Stamping Process of a thin plate**, Rs. 10.50 lakhs
- Mentor, Design Clinic Scheme for MSMEs, Student Design Project, **Design of Stove / Chulha for Rural Masses of India**, 2015, Duration: 4 months (Amount Rs. 1.5 Lakhs)
- Project Proposal submitted to Amada Co., Ltd., Japan **Development of Image based Safety and Springback correction solutions for sheet metal bending machines**, Rs. 22 Lakhs
- Principal Investigator, DST-JSPS Project – **Development of a micro pump with NEMS sensing function for an automatic blood collecting and measurement system**, 2010. Duration: 2 years. (Amount: Rs. 4.38 lakhs - from the Indian Funding Agency)
- Principal Investigator, Department of Science and Technology (Govt. of India) Project – **Geometric Modeling, Analysis and Design for Generic Definitions of Custom-Engineered Cutting Tools** at IIITDM Jabalpur. Period 2008-12 (Amount: Rs. 25.26 lakhs)
- Co-Principal Investigator, Ministry of Human Resource Development (Govt. of India) Project – **Development of Virtual Laboratory on Automated systems (Mechatronics)** supported by National Mission for Education through ICT (NMEICT). (P.I.: Dr.Tanuja Sheorey, Co-PI: Dr. V.K.Gupta) (Amount: Rs. 40 lakhs)
- Co-Principal Investigator, Ministry of Human Resource Development (Govt. of India) Project – **Development of Virtual Laboratory on Manufacturing** supported by National Mission for Education through ICT (NMEICT). (P.I.: Dr. V.K.Gupta, Co-PI: Dr.Tanuja Sheorey) (Amount: Rs. 40 lakhs)
- Co-Principal Investigator, Department of Science and Technology (Govt. of India) Project – **Geometric Modeling of Cutting Tools using Reverse Engineering** at IIT Kanpur. Period 2000-03 (Amount: Rs. 11 lakhs)
- Consultancy to Imaginarium (India) Pvt. Ltd., Mumbai for designing and fabricating the mold of 45 mm Bottle Core; November 2010. (Amount: Rs. 6.540/-)
- Development of Integrated CAD/CAM Lab at N.I.T. Kurukshetra, funding from World Bank (TECHAID IV).
- Coordinator, Ministry of Human Resource Development (MHRD), Govt of India, Research Project on *Integration of Design and Analysis Phase in Product Development Cycle* (Amount: Rs.1.5 millions)
- Principal Coordinator, Tracking and Analysis of Metro Bus Service of Jabalpur City Transport Services Ltd. (JCTSL), sponsored by District Administration, Jabalpur City, (Amount: Rs. 0.15 million), 2008-09.
- Consultancy project on “A Dynamic System for Vehicle Tracking and Performance Analysis for Nagar Nigam, Jabalpur”, Nagar Nigam Jabalpur, (Amount: Rs. 0.15 million)
- Guided and successfully completed a few consultancy projects in the area of CAD/CIMS.

✦ National / International Advisory Bodies

- (a) Member, National Task Force on “Design and Innovative Learning”
- (b) Member, National Advisory Committee on “Miniature Manufacturing at world level”

✦ Publications

- Published 71 papers in International peer refereed journals of repute and 85 in International / National Conferences. Besides, 14 papers published in peer reviewed journals are presented in International Conferences.

✦ Books

- “**Cutting Tool Geometry: 3D Perspective**”, 2011, AV Akademikerverlag GmbH & Co. KG, Germany [ISBN 978-3-8465-2878-5]
- Edited and published (jointly) One conference proceedings - National Conference on Recent Advances in Mechanical Engineering, March 1997.

✦ Editor/Guest Editor of International Journals

- a. Guest Editor, Design for All, (Special Issue on: "Design for the Bottom of the Pyramid), March 2015, Vol. 10, No. 3, 2015
- b. Guest Editor, International Journal of Manufacturing Technology & Management (Special Issue on: "Recent Advances in Manufacturing Technologies), Vol. 27, No. 1/2/3, 2013"
- c. Guest Editor of the Proceedings of International Conference on Mechatronics and Mechanical Engineering (ICMME 2014), Published by Trans Tech Publications, Switzerland
- d. International Journal of Manufacturing Technology and Management (IJMTM).
- e. Applied Mechanics and Materials Journal (AMM).
- f. Communications in Control Science and Engineering (CCSE), Published by American Society of Science and Engineering (<http://www.as-se.org/ccse/EditorialBoard.aspx>)
- g. Guest Editor of the Proceedings of International Conference on Mechanics and Control Engineering, (ICMCE 2013), Published by Trans Tech Publications, Switzerland

✦ Research Supervision

- Ph.D. Supervision – Awarded: Ten; Under progress: Five
- Completed research guidance to Twenty Six M.Tech. / M.Des Students and presently supervising Seven Students.
- Established “Advanced Manufacturing Center” at IIITDM Jabalpur
- Proficiency of various CAD/CAM software and RP/RT machines/processes (Stratasys FDM/ Cubital SGC/ MCP SVC/ TAFA Metal Arc Spray/ TAFA Low Melting Alloy System)
- Proficiency of CNC machine (g-code) programming.
- Developed and established laboratories. Taught & developed a number of courses.
- Framed the course curriculum of a new B.Tech. Mechanical and various M.Tech. Schemes.

✦ Conferences / Workshops Organized

- Convener, **Design Workshop** on “**Process Centric Design and Manufacture**”, PDPM IIITDM Jabalpur, December 8-10, 2015
- Convener, **Design Workshop** on “**User Centric Design**”, PDPM IIITDM Jabalpur, December 8-10, 2014
- Coordinator, Workshop on “**IPR Awareness**”, PDPM IIITDM Jabalpur, February 8, 2014
- Member, Organizing Committee, **IEEE Sponsored International Conference on Control, Automation, Robotics and Embedded Systems (CARE 2013)**, December 16-18, 2013, PPDM IIITDM Jabalpur
- Member, Organizing Committee, Mini Design Workshop (Mini DeW 2013), December 6-7, 2013, PPDM IIITDM Jabalpur

- Coordinator, **International Conference on Innovations in Design and Manufacturing (InnDeM 2012)**, PDPM IITDM Jabalpur, December 5-7, 2012.
- Organized three conferences of national level at N.I.T./R.E.C. Kurukshetra.
- Organized a 5 day Workshop on “**Design (DeW 2010)**” during October 11-15, 2010 on “**Leading-edge Theories and Practices in Design**” along with Japanese Collaborators
- Organized a Two day Workshop on “Design and Development of NDT Equipment for Product Development” from Department of Science & Technology, New Delhi on September 01-02, 2005. (Funding: Rs. 2.5 Lacs)
- Member, Organizing Committee, National Workshop on “Future of the Past: Use of Modern Technologies in the Study of the Past”, held at IIT Kanpur, 12 June to 7 July, 2006
- Member, Organizing Committee, International Symposium on Frontiers of Research on Speech and Music (FRSM 2006), January 9-10, 2006
- Member, Organizing Committee, National Workshop on “Tsunami Rehabilitation”, September 23-25, 2005
- Officer-in-Charge, Literati (Students’ Technical Symposium), N.I.T., Kurukshetra.

✳ **Conferences Programme Committees / Technical Committees / Session Chairing**

- (a) Conference Chair, 2016 International Conference on Design, Materials and Manufacturing (ICDMM 2016), Kuala Lumpur, Malaysia, March 25-27, 2015
(<http://www.icdmm.org/index.html>)
- (b) Member, Advisory Board, International Conference on Trends in Industrial and Mechanical Engineering (IC TIME), February 4-6, 2016 at Maulana Azad National Institute of Technology (MANIT) Bhopal, India
- (c) Session Chair of the Session on Advanced Forming-3, 2015 ASME International Mechanical Engineering Congress & Exposition, 2015 IMECE, Houston, Texas, USA, November 13-19, 2015.
- (d) Conference Chair, 2015 International Conference on Mechatronics and Mechanical Engineering (ICMME 2015), Singapore, September 15-16, 2015 (<http://www.icmme.org>)
- (e) Member, International Advisory Committee, International Conference on Advancement and Recent Innovations in Mechanical, Production and Industrial Engineering, February 27-28, 2015 at ITS Engineering College Greater Noida, India
- (f) Member, Program Committee, 5th International Conference on Research into Design (ICord '15), January 7-9, 2015 at Indian Institute of Science (IISc) Bangalore
- (g) Member, National Advisory Committee, 3rd International Conference Nanocon 014 - Smart Materials, Composites, Applications and New Inventions” organised by Bharati Vidyapeeth University, Pune, in association with North Carolina A & T State University, Greensboro, USA (NCAT), Tuskegee University, Alabama, USA (TU), The University of Tokushima, Japan and Centre for Materials for Electronics Technology (C-MET), Department of Information Technology, Government of India, Pune, October 14-15, 2014
- (h) Conference Chair, 2014 International Conference on Mechatronics and Mechanical Engineering (ICMME 2014), Chengdu, China, September 6-8, 2014 (<http://www.icmme.org>)
- (i) Member, Advisory Committee and Technical Program Committee, XVI Annual Conference of International Academy of Physical Science (CONIAPS 2014) on Physical Science and Technology for Sustainable Development, held on March 20-22, 2014 at PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur
- (j) Conference Chair, 2nd International Conference on Mechanics and Control Engineering, ICMCE 2013, Beijing, China, September 1-2, 2013 (www.icme.org)
- (k) Conference Chair, 2nd International Conference on Microelectronics, Optoelectronics and Nanoelectronics, ICMON 2013, Beijing, China, September 1-2, 2013 (www.icmon.org)

- (l) Member, Advisory Committee – International Conference on Mechanical Engineering: Emerging Trends for Sustainability (IC MEETS), MANIT Bhopal, January 29-31, 2014
- (m) Member, Advisory Committee and Resource Person, Workshop on Recent Trends in CAD/CAM/CAE, MET's Institute of Engineering, Bhujbal Knowledge City, Nasik. February 2014
- (n) Member, Advisory Committee – The Second International Conference on Intelligent Robotics, Automation and Manufacturing (IRAM) 2013, IIT Indore, December 16-18, 2013
- (o) Member, Advisory Committee – **IEEE Sponsored International Conference on Control, Automation, Robotics and Embedded Systems (CARE 2013)**, December 16-18, 2013, PPDM IIITDM Jabalpur
- (p) Session Chair, The Second International Conference on Intelligent Robotics, Automation and Manufacturing (IRAM) 2013, IIT Indore, December 18, 2013
- (q) Chair, Panel Discussion on "'CARE' - Challenges and Opportunities to our society" at **IEEE Sponsored International Conference on Control, Automation, Robotics and Embedded Systems (CARE 2013)**, December 17, 2013, PPDM IIITDM Jabalpur
- (r) Member, Program Committee – 1st International & 16th National Conference on Machines and Mechanisms (iNaCoMM 2013), IIT Roorkee, December 18-20, 2013
- (s) Member, National Advisory Committee – Manufacturing: Vision for Future, IIT Guwahati, October 12-13, 2013
- (t) Session Chair, 2nd International Conference on Mechanics and Control Engineering, ICMCE 2013, Beijing, China, September 1-2, 2013.
- (u) Session Chair, The 2013 International Conference of Computational Intelligence and Intelligent Systems, World Congress on Engineering, WCE 2013, London, U.K., July 3-5, 2013.
- (v) Member, Conference Advisory Committee, International Conference on Emerging Materials Technology, ICEMT 2013, Gyan Ganga Group of Institutions, Jabalpur, April 8-10, 2013 (www.ggits.org/icemt2013)
- (w) Member, Advisory Committee – National Conference on New Technologies and their Applications to Engineering, Guru Ramdas Khalsa Institute of Science and Technology, Jabalpur, March 16-17, 2013. (<http://www.grkist.com/ntae2013/>)
- (x) Member, Advisory Committee – National Conference on Recent trends in Industrial Design and Production, Takshila Institute of Engineering and Technology, Jabalpur
- (y) Member, Advisory Committee – All India seminar on Advancement in Mechanical Engineering, Takshila Institute of Engineering and Technology, Jabalpur
- (z) Member, Long Term Planning Committee – Computer Aided Design Conference and Exhibition / Journal – Computer Aided Design & Applications (www.cadconferences.com)
- (aa) Conference Chair and Keynote Speaker, International Conference on Mechanics and Control Engineering, ICMCE 2012, Shanghai, China, August 25-26, 2012 (www.icme.org)
- (bb) Conference Chair and Keynote Speaker, International Conference on Image, Vision and Computing, ICIVC 2012, Shanghai, China, August 25-26, 2012 (www.icivc.org)
- (cc) Keynote Speaker, International Conference on Microelectronics, Optoelectronics and Nanoelectronics, ICMON 2012, Shanghai, China, August 25-26, 2012 (www.icmon.org)
- (dd) Member, National Advisory Committee, 27th National Convention of Production Engineers and National Seminar on Advancements in Manufacturing-Vision 2020 (NCPE), BIT, Mesra, Ranchi, May 25-26, 2012
- (ee) International Programme Committee – Third International Conference on Product Life Cycle Management, Modeling, Simulation and Synthesis (PLMSS 2011) to be held at PSG College of Technology, Coimbatore in December 2011
- (ff) Chairman, Technical Session on Manufacturing at International Conference on Manufacturing Science & Technology (ICMST) 2011 held at Singapore, September 16-18, 2011

- (gg) Member, International Programme Committee – Computer Aided Design Conference and Exhibition – CAD’11 held at Taipei (June 27-30, 2011)
- (hh) Chairman, Technical Session on “Novel Algorithms” at Computer Aided Design Conference and Exhibition – CAD’11 held at Taipei (June 27-30, 2011)
- (ii) Member, Technical Advisory Committee, Third International and 24th All India Manufacturing Technology Design & Research Conference, Andhra University, Vishakapatnam, India during December 13-15, 2010
- (jj) Chairman, Technical Session on CAD at First International and 22nd All India Manufacturing Technology Design & Research Conference, IIT Roorkee, India on December 22, 2006
- (kk) Keynote Speaker and Chairman, Technical Session on Mechanical Engineering at National Conference on Futuristic Trends in Engineering and Technology, JNCEDM College of Engineering, Sirsa, January 28-29, 2008

✳ Key Note / Plenary Addresses / Talks

- Delivered a Keynote address “CAD enabled Modern Sheet Metal Forming: Tools and Techniques” at International Conference on Mechatronics and Mechanical Engineering (2015 ICMME), Singapore, September 16, 2015
- Delivered a Lead Lecture on “Universal Design” at 12th International Ergonomics Conference - HWWE 2014 – Humanizing Work and Work Environment December 3-5, 2014 at IIT Guwahati on December 04, 2014
- Delivered a Keynote address “Dieless Forming of Sheet Metal Products” at International Conference on Mechatronics and Mechanical Engineering (2014 ICMME), Chengdu, China, September 07, 2014
- Delivered Keynote speech on “CAD/CAM – Need and Applications” at the short term course on “CAD/CAM and Advanced Machining” at Motilal Nehru National Institute of Technology Allahabad, July 01, 2014
- Delivered Keynote Speech on “Capturing Design Knowledge” at National Workshop on CAD/CAM/CAE, held on March 24-25, 2014 at MCTE Institute of Engineering, Nasik
- Delivered Keynote Speech on “Dieless Manufacturing” at XVI Annual Conference of International Academy of Physical Science (CONIAPS 2014) on Physical Science and Technology for Sustainable Development, held on March 20-22, 2014 at PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur
- International Conference on “Mechanical Engineering: Emerging Trends for Sustainability” (IC MEETS), MANIT Bhopal, January 29-31, 2014 on “*Capturing Knowledge In Design Development Process*”
- The Second International Conference on Intelligent Robotics, Automation and Manufacturing (IRAM) 2013, IIT Indore, December 16-18, 2013 on “*Dieless Manufacturing*”
- IEEE International Conference on Control, Automation, Robotics and Embedded Systems (CARE 2013), PDPM IIITDM Jabalpur, December 16-18, 2013 – Chair – Panel Discussion on “‘CARE’ – Challenges and Opportunities for the Society”
- Mini Design Workshop (Mini DeW 2013), PDPM IIITDM Jabalpur, December 6-7, 2013 on “*Nature Inspired Design*”
- Delivered a lecture on "Education as a Service Sector" at National Workshop on “Emerging Trends in Information Technology in University Management”, PDPM IIITDM Jabalpur, September 10, 2013
- International Conference on Mechanics and Control in Engineering (2013 ICMCE) and ICMON 2013, Beijing, China, September 02, 2013 on “*Improvements in Abrasive Water Jet Machining Process through Suspension Jet and Thermally Enhanced Machining*”

- Delivered an invited lecture on “Additive Manufacturing” at Short Term Training Programme on Product Development at MANIT, Bhopal, India, February 18, 2013
- International Design Workshop (DeW 2012) at PDPM IIITDM Jabalpur, India, December 7, 2012 on “Y Design?”
- International Conference on Mechanics and Control, Shanghai, China, August 25-26, 2012 on “Why Design? Formal Design Methodology – Role And Challenges Ahead”

✦ **Membership of Professional Bodies**

- Fellow, International Association of Computer Science and Information Technology (IACSIT)
- Member, American Society of Mechanical Engineers (ASME)
- Member, International Association of Engineers (IAENG)
- Member, Indian Society for Technical Education (ISTE)

✦ **Reviewer to International Journals**

- ASME Journal of Manufacturing Science and Engineering
- ASME Journal of Computing and Information Science in Engineering
- International Journal of Machine Tool and Manufacture
- Computer Aided Design (Elsevier)
- Precision Engineering and Manufacturing
- International Journal of Production Research
- International Journal of Precision Technology
- Proceeding of IMechE: Journal of Engineering Manufacture
- International Journal of Advanced Manufacturing Technology
- International Journal of Manufacturing Technology & Management.
- Computer Aided Design & Applications
- International Journal of Production Planning and Control
- Sadhana (Springer)
- International CAD Conferences
- International Conference on Tools & Methods of Competitive Engineering, TMCE 2012, 2014
- ASME 2013 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, IDETC/CIE 2013, August 4-7, 2013, Portland, USA
- AIMTDR Conferences
- 1st International & 16th National Conference on Machines and Mechanisms, IIT Roorkee

✦ **Indo-Japan Forum**

- Co-Convener, **Design Workshop** on “User Centric Design”, December 8-10, 2014
- Member of the Indian Delegation to Indo-Japan Seminar to promote the exchange of knowledge and information necessary for advancement of research and development work in the area of Micro/Nano Manufacturing Science, March 21-25, 2011, IIT Delhi, India.
- Convener, Joint India-Japan **Design Workshop** on “Leading-edge Theories and Practices in Design”, October 11-15, 2010.
- Member of the Indian Delegation to First Indo-Japan Workshop on Micro and Nano Manufacturing, February 2006, Tokyo, Japan.
- Delivered a 21st Century Center of Excellence (CoE) Technical Seminar at Tohoku University, Japan, on “Geometric Modeling of Cutting Tools for Integrated Design and Manufacturing” on December 13, 2007.
- Exposure visit to various Universities and Industries of Japan under India-Japan Joint Project IIITDM Jabalpur during the period December 2007. Sponsored by MOFA, Japan and MHRD, India.

✧ **Indo US Science and Technology Forum**

- Member of the Indian delegation at First Indo-US workshop on Rapid Manufacturing, March 2006, Bangalore.

✧ **International Workshop on Futuristic Shaping Technology at Meso, Micro and Nano Scales Indo US Center for Advanced and Futuristic, IIT Kanpur**

- Invited to attend and present at International Workshop on Futuristic Shaping Technology at Meso, Micro and Nano Scales, October 9 – 12, 2007 at IIT Kanpur.

✧ **Invited Lectures**

- Delivered an expert lecture on “Fundamentals of CAD” at the short term course on “CAD/CAM and Advanced Machining” at Motilal Nehru National Institute of Technology Allahabad, July 01, 2014
- Invited to deliver a lecture on “Manufacturing in India – With special focus on Automotive Industry in India” as part of a course on Intelligent Manufacturing Systems, Graduate Programme, University of Tokyo, Tokyo, July 27, 2011
- Industrial and Manufacturing Culture (IMAC) on Industrial Cultures supporting Open Innovation Systems at Munich, Germany
- Delivered Invited lectures on various aspects of CAD, CAM, Rapid Prototyping & Tooling Technologies at IIT Guwahati, NIT Kurukshetra, NIT Hamirpur, MANIT Bhopal, MNNIT Allahabad, JUET, Guna, I.T.S Engineering College, Greater Noida.

✧ **Administrative Assignments**

- Expert Member, Curriculum Development Committee, UG and PG programme in Industrial Design at NIT Rourkela

Administrative Experience

- Member, Board of Governors, PDPM-IIITDM Jabalpur (February 2010 –12, November 2012-14)
- Member, Board of Governors, MANIT Bhopal (February 2012 – November 2014)
- Dean, Planning and Development, PDPM-IIITDM Jabalpur (March 2010 – 2013 & September 2013 onwards)
- Head, Design Discipline (June 2012–August 2014). Prior Coordinator, Design Discipline
- Chief Vigilance Officer, PDPM-IIITDM Jabalpur (October 2011–2014)
- Member, Building and Works Committee, PDPM-IIITDM Jabalpur (March 2010 – 2013 & September 2013 onwards)
- Member, Senate, PDPM-IIITDM Jabalpur (August 2005 onwards)
- Chairman, Campus Advisory Committee, PDPM-IIITDM Jabalpur (March 2010 – 2013 & September 2013 onwards)
- Faculty-in-Charge, Alumni Cell
- Faculty-in-Charge, Consultancy Cell
- Member, Space Allocation Committee, PDPM-IIITDM Jabalpur (March 2014 onwards)
- Member, Planning and Evaluation Committee, Jabalpur Engineering College Jabalpur (An autonomous college) (August 2010 – till date)
- AICTE nominee in the expert committee of UGC for the visit to Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, Sangrur (2012)
- Coordinator, International Relations, PDPM-IIITDM Jabalpur (January 2009 – May 2010)
- Coordinator, Research, Development & Planning, IIITDM Jabalpur (January 2009–March 2010)

- Chairman, Placement Cell, PDPM-IIITDM Jabalpur (January 2009 – April 2011)
- Coordinator, Central Facilities, PDPM-IIITDM Jabalpur (January 2009 – May 2010)
- Convener, Undergraduate Committee of Senate (UGCS), PDPM-IIITDM Jabalpur
- Convener, Institute Communication Policy Committee, PDPM-IIITDM Jabalpur
- Member, Campus Advisory Committee, PDPM-IIITDM Jabalpur (2005 onwards)
- Coordinator, Students' Placement, Internship and Industrial Tour Committee, IIITDM Jabalpur
- Member, Placement Cell, IIIT-DM Jabalpur (July 2008-December 2008; May 2011–till date)
- Member, Institute Advisory Committee – General Administration, PDPM-IIITDM Jabalpur
- Member, Institute Advisory Committee – Academic Vision, PDPM-IIITDM Jabalpur
- Member, Institute Advisory Committee – Student Affairs, PDPM-IIITDM Jabalpur
- Prof-In Charge, CAD Labs, NIT Kurukshetra.
- Prof-In Charge, Examinations (Results), NIT Kurukshetra.
- Member, TEQIP Committee, NIT Kurukshetra.
- Member, Non-Teaching Grievance and Welfare Committee, NIT Kurukshetra.
- Member, Workshop Modernization/CAM Lab Committee, NIT Kurukshetra.
- Member, Labour Contract Committee, NIT Kurukshetra.
- Member, Library Committee, NIT Kurukshetra.
- Member, Institute Furniture Committee, NIT Kurukshetra.
- General Secretary, Alumni Association, NIT Kurukshetra.
- Member, Curriculum Development Committee, UG & PG (both), NIT Kurukshetra.
- Warden, NIT Kurukshetra & PDPM-IIITDM Jabalpur.

Some Recent Selected Publications

Year – 2016

- *Tiwari, Varun, Jain, P.K. and Tandon, Puneet*, "Product Design Concept Evaluation using Rough Sets and VIKOR Method", *Advanced Engineering Informatics*, 2016, Vol. 30, pp. 16–25. [doi:10.1016/j.aei.2015.11.005](https://doi.org/10.1016/j.aei.2015.11.005)
- *Panjwani, Deepesh, Jain, P.K., Samal, M.K., Roy, J.J., Roy, D. and Tandon, Puneet*, Single Point Incremental Forming Using Flexible Die, 28th International Conference on CAD/CAM, Robotics and Factories of the Future 2016 (28 CARS & FoF 2016), January 6-8, 2016, College of Engineering and Management, Kolaghat, WB, India, Paper No. 101 [Presented by Dr. Debanik Roy]
- *Shaikh, Saquib, Kumar, Narendra, Jain, P.K., and Tandon, Puneet*, Hilbert Curve Based Toolpath for FDM Process, 28th International Conference on CAD/CAM, Robotics and Factories of the Future 2016 (28 CARS & FoF 2016), January 6-8, 2016, College of Engineering and Management, Kolaghat, WB, India, Paper No. 101 [Presented by Mr. Narendra Kumar]

Year – 2015

- *Kumar, Narendra, Shaikh, Saquib, Jain, P.K. and Tandon, Puneet*, "Effect of fractal curve based toolpath on part strength in fused deposition modelling", *Int. J. Rapid Manufacturing*, 2015, Vol. 5, No. 2, pp. 186-198. <http://dx.doi.org/10.1504/IJRAPIDM.2015.073576>
- *Gupta, T.V.K., Ramkumar J., Tandon, Puneet, and Vyas, N.S.*, "Application of Artificial Neural Networks in Abrasive Water Jet Milling", *Procedia CIRP*, 2015, Vol. 37, pp. 225-229
- *Kumar, Vimlesh, Sambhav, Kumar, and Tandon, Puneet*, "Force Modeling in Ball-end Milling and its Application to Sculptured Surface Machining", *Journal of Material Science and Mechanical Engineering (JMSME)* Print ISSN : 2339-9095; Online ISSN : 2393-9109; Volume 2, Number 6; pp. 4 – 8
- *Pachauri, Yash and Tandon, Puneet*, A Holistic Modelling for Numerical Simulation of Electric

Discharge Machining Process, ASME International Mechanical Engineering Congress and Exposition (IMECE) 2015, November 13-19, 2015, Houston, Texas, Paper No. IMECE2015-50860 [Presented by Puneet Tandon]

- *Shrivastava, Parnika, Roy, J.J., Samal, M.K., Jain, P.K. and Tandon, Puneet*, Parameter Optimization of AA1050A in Incremental Sheet metal forming process based on Taguchi design and response surface methodology, ASME International Mechanical Engineering Congress and Exposition (IMECE) 2015, November 13-19, 2015, Houston, Texas, Paper No. IMECE2015-51227 [Presented by Puneet Tandon]
- *Sahu, Govind N., Saxena, Sumit, Roy, J.J., Samal, M.K., Jain, P.K. and Tandon, Puneet*, Shell element formulation based Finite Element modeling, analysis and experimental validation of incremental sheet forming process, ASME International Mechanical Engineering Congress and Exposition (IMECE) 2015, November 13-19, 2015, Houston, Texas, Paper No. IMECE2015-53146 [Presented by Puneet Tandon]
- *Kumar, Pavan, Priyadarshi S., Roy, J.J., Samal, M.K., Jain, P.K. and Tandon, Puneet*, Effect of Tool shape on Surface Finish of components formed through Incremental Sheet Forming process, ASME International Mechanical Engineering Congress and Exposition (IMECE) 2015, November 13-19, 2015, Houston, Texas, Paper No. IMECE2015-53282 [Presented by Puneet Tandon]
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2. Edited and Published **Proceedings of National Conference on Recent Advances in Mechanical Engineering**, March 1997. (Joint Editor and Publisher).

Some Recent Conferences / Symposia / Seminars Attended

- 2015 ASME IMECE (ASME International Mechanical Engineering Congress & Exposition), Houston, TX, US, November 13-19, 2015
- ICMME 2015, International Conference on Mechatronics and Mechanical Engineering, Singapore, September 15-16, 2015
- 12th International Ergonomics Conference - HWWE 2014 – Humanizing Work and Work Environment December 3-5, 2014 at IIT Guwahati
- ICMME 2014, International Conference on Mechatronics and Mechanical Engineering, Chengdu, China, September 6-8, 2014
- ICMCE 2013, International Conference on Mechanics and Control Engineering, Beijing, China, September 1-2, 2013
- ICCIIS'13, The 2013 International Conference of Computational Intelligence and Intelligent Systems, World Congress on Engineering 2013, London, U.K., 3-5 July 2013
- ICMCE 2012, International Conference on Mechanics and Control Engineering, Shanghai, China, August 25-26, 2012
- ICIVC 2012, International Conference on Image, Vision and Computing, Shanghai, China, August 25-26, 2012
- CAD'12, the 2012 International CAD Conference and Exhibition, Niagara Falls, Ontario, Canada, June 11-14, 2012.
- ICMST 2011, International Conference on Manufacturing Science and Technology, Singapore, September 16-18, 2011, Organized by IACSIT and Singapore Institute of Electronics.
- CAD'11, the 2011 International CAD Conference and Exhibition, Taipei, Taiwan, June 27-30, 2011.

Doctoral Thesis Supervision

1. Parveen Kumar Saini, Analysis of Rough Non-Conformal EHL Contacts Using Couple Stress Fluids, NIT Kurukshetra. [Awarded: May 2008]
2. Vishal Gulati, Unified Shape Modeler for Three Dimensional Components, NIT Kurukshetra. [Awarded: May 2009]
3. M. Rajik Khan, Geometric Modeling, Design and Analysis of Custom-Engineered Milling Cutters, IIITDM Jabalpur [Awarded: September 2011]

4. Sandeep Singhal, The Contribution of ERP to Quality Assurance: An exploration of its Problems and Prospects in Indian Technical Education, NIT Kurukshetra [Awarded: August 2012]
5. Kumar Sambhav, Geometric and Force Modeling of Single Point Cutting Tool and Drill with Generic Profiles, IIT Kanpur [Awarded: July 2013]
6. T.V.K. Gupta, In-Process monitoring of Abrasive Water Jet Milling, IIT Kanpur [Awarded June 2014]
7. Sitaram Soni, Computational Support to the Concept Generation of Industrial Products, PDPM IITDM Jabalpur [Awarded: June 2014]
8. Arun Gupta, Automatic Tool path generation for free-form surfaces in Milling, NIT Kurukshetra [Awarded: August 2014]
9. Vineet Kumar Goel, Geometric Modeling Schema for Non-manifold objects, NIT Kurukshetra [Awarded: March 2015]
10. Vikas Gupta, Computer Aided Modeling and Analysis for Rapid Prototyping of Heterogeneous Objects, NIT Kurukshetra [Awarded: March 2015]
11. Varun Tiwari (2011 - ...), Capturing Design Intent, IIITDM Jabalpur
12. Prabhat Kumar (2011 - ...), Design Methodology, IIITDM Jabalpur
13. Ravindra Singh (2011 - ...), Universal design of personal healthcare devices, Design Discipline, IIITDM Jabalpur
14. Amaltas Khan (2011 - ...), Modular Design and Sustainability, Design Discipline, IIITDM Jabalpur
15. Parnika Shrivastava, (2014-...), Dieless Forming, IIITDM Jabalpur
16. Pavan Kumar, (2016- ...), Dieless Forming, IIITDM Jabalpur

'Master of Technology' (M.Tech.) Thesis Supervision

1. Addepalli Srinivas, 1998, Computer Aided Inspection Planning System for Cylindrical Components, NIT Kurukshetra.
2. Anuj Kant, 2003, A CAD System for the Heterogeneous Solid Modeling, NIT Kurukshetra.
3. Vishal Gulati, 2003, Unified Shape Modeler for Two and a half Dimensional Components, NIT Kurukshetra.
4. Awanish Kumar, 2004, Feature Based Modeller for Non-Manifold Sheet Metal Components, NIT Kurukshetra.
5. Satya Pal Singh, 2004, Three-Dimensional Finite Element Modelling of Face Milling Cutters, NIT Kurukshetra.
6. Mohit Kumar, 2005, Generic Solid Modelling for integration of CAD and CAE databases, NIT Kurukshetra.
7. M. Rajik Khan, 2006, Computer Aided Engineering Analysis of End Milling Cutters, NIT Kurukshetra.
8. Siddhartha, 2006, Curve Fitting for Styling Applications, NIT Kurukshetra.
9. Nisheet Soni, 2010, Path planning of an Automated Guided Vehicle in an unknown environment, IIITDM Jabalpur
10. Umesh, 2010, Development of a Material Dispensing and Positioning System of a Rapid Prototyping Workbench for manufacturing of Heterogeneous Objects, IIITDM Jabalpur
11. Vijay Pal, 2011, Effect of Process Parameters and Material Characteristics on Milling Time in Controlled Depth Milling using Abrasive Water Jet Machining, IIITDM Jabalpur
12. Divyansh Patel, 2013, Improvements in Abrasive Water Jet Machining Process through Suspension Jet and Thermally Enhanced Machining, IIITDM Jabalpur
13. Om Namah Sharma, 2013, Experimental Investigations to Improve Incremental Sheet Forming Process, IIITDM Jabalpur

14. Vandana Jain, 2014, Mathematical Modeling and Experimental Investigation of the Effect of Slurry, and 3D Shape Generation in Abrasive Water Jet Machining, IIITDM Jabalpur
15. Pavan Kumar, May 2015, Surface Finish Analysis in Incremental Sheet Forming Process, IIITDM Jabalpur
16. Govind Narayan Sahu, August 2015, Development of Finite Element Analysis Methodology for Incremental Sheet Forming Process, IIITDM Jabalpur
17. Jodave Sanket Haridas, 2013-15, Experimental Investigations on the effect of Clamping Parameters and Blank Shape in Incremental Sheet Forming, IIITDM Jabalpur
18. Abhishek Kumar, 2014-16, Calibration of Damage Model Parameters and Finite Element Analysis of Incremental Sheet forming, IIITDM Jabalpur
19. Divyansh Dwivedi, 2014-16, Finite Element Analysis of Incremental Sheet Forming Process, IIITDM Jabalpur

'Master of Design' (M.Des.) Thesis Supervision

1. Ravindra Singh, 2010, Designing and Capturing the Design Intent of a Lifting Mechanism, IIITDM Jabalpur
2. Amaltas Khan, 2011, Design of a Transportation Device in Indian context, IIITDM Jabalpur
3. Dhananjay Bisht, 2011, Redesign of Shopping Cart in Indian Context, IIITDM Jabalpur
4. Deepanshu Azad, 2013, Consumer Product Attachment from Sustainability point of View, IIITDM Jabalpur
5. Ashish Jain, 2013, Design of Sustainable Commercial Solar Iron, IIITDM Jabalpur
6. Devendra Deshmukh, 2013, Nature Inspired Design of Water Storage Devices, IIITDM Jabalpur
7. Prasad Ravindra Padase, November 2014, Perimeter Security Learning Tool - A Serious Game Approach, IIITDM Jabalpur
8. Prashant Singh, November 2014, Purpose Centric Design Process: A Paradigm for Concept Improvements, IIITDM Jabalpur
9. Hemant Harishchandra Kanade, May 2015, Airport Luggage Trolley Redesign, IIITDM Jabalpur
10. N Balasubaramaniyan, 2013-15, Design support for Food Grain Storage in Indian Agriculture, IIITDM Jabalpur
11. Ganesh S., 2014-16, Design for Assembly, IIITDM Jabalpur
12. Madhura Shridhar Phadke, 2014-16, Biomimicry in Medical Products, IIITDM Jabalpur
13. Sarvani Shankar Jha, 2014-16, Mobile Eco-Toilet, IIITDM Jabalpur
14. Vijay Singh Thakur, 2014-16, Design Issues in Agricultural Automation, IIITDM Jabalpur

Some Recent Invited Lectures in Workshops / Short-Term Courses

- Delivered a Keynote address *"Dieless Forming of Sheet Metal Products"* at International Conference on Mechatronics and Mechanical Engineering (2014 ICMME), Chengdu, China, September 07, 2014
- Delivered a Keynote address *"Improvements in Abrasive Water Jet Machining Process through Suspension Jet and Thermally Enhanced Machining"* at International Conference on Mechanics and Control in Engineering (2013 ICMCE) and 2013 ICMON, Beijing, China, September 02, 2013
- Delivered a lecture on *"Education as a Service Sector"* at National Workshop on "Emerging Trends in Information Technology in University Management", PDPM IIITDM Jabalpur, September 10, 2013
- Delivered an invited lecture on *"Additive Manufacturing"* at Short Term Training Programme on Product Development at MANIT, Bhopal, India, February 18, 2013

- Delivered a Keynote address “Y Design?” at International Design Workshop (DeW 2012) at PDPM IITDM Jabalpur, India, December 7, 2012
- Delivered a Keynote address “Why Design? Formal Design Methodology – Role And Challenges Ahead” at International Conference on Mechanics and Control, Shanghai, China, August 26, 2012
- Invited to deliver a lecture on “Engineering Literacy” at I.T.S Engineering College, Greater Noida, August 23, 2012
- Invited to deliver a lecture on “Manufacturing in India – With special focus on Automotive Industry in India” as part of a course on Intelligent Manufacturing Systems, Graduate Programme, University of Tokyo, Tokyo, July 27, 2011
- Delivered an expert lecture on “Rapid Product Manufacturing: An Introduction to Rapid Tooling” at National Workshop on “Manufacturing Automation”, Jaypee University of Engineering & Technology, Guna, December 16-17, 2011
- Delivered an expert lecture on “Research Issues in Mechanical Engineering - Special Focus on Production, Industrial and Design Engineering”, Maulana Azad National Institute of Technology Bhopal, January 29, 2011.

Awards

- Guest of Honour at the inaugural ceremony of the short term course on “CAD/CAM and Advanced Machining” at Motilal Nehru National Institute of Technology Allahabad, July 01, 2014
- Research Paper Titled: “Design Process Automation Support through Knowledge Base Engineering” (Paper No.: ICCIIS_33) has been awarded “*Certificate of Merit* for The 2013 International Conference of Computational Intelligence and Intelligent Systems, World Congress on Engineering 2013, London”
- Research paper, “Geometric Modeling of Fluted Cutters”, ASME J. Comput. Inf. Sci. Eng., 2008, Vol. 8, Issue 2, pp. 021007-1-15, Top 10 Most Downloaded Articles -- July 2008, September 2008, March 2009
- Research paper “Three dimensional modeling and finite element simulation of a generic end mill”, Computer-Aided Design, 2009, Vol. 41, No. 2, pp. 106-114, has been the 4th most cited paper under Science Direct, hottest 25 articles, Computer Science, Computer-Aided Design, January to March 2009.
(<http://top25.sciencedirect.com/subject/engineering/12/journal/computeraided-design/00104485/archive/21/>)
- Chosen for 'Marquis Who's who in the World, 2007-08, 2008-09'
- Chosen for 'Marquis Who's who in Science and Engineering', 2006-07, 2007-08, 2008-09.
- Best Technical Paper Award 2000 for the paper, "Computer Aided Design and Development of Saddle Tree" presented at All India SDRC Users' Conference, October 9-11, 2000, Pune.
- Pro/User Award '99 for excellence in application of Pro/Engineer by PTC Inc., USA during All India PTC Users' Conference, 1999.
- Qualified 'National Talent Search Examination' of Govt. of India.
- Received 'National Cultural Talent Search Scholarship' from Govt. of India for Painting for the longest period in its record.
- Won various International/ National/ State/ University level prizes in Painting and other co-curricular activities.
- Won prizes at various levels in various Literary and Dramatics events.
- Organized various inter and intra college/institute events.
- Bagged merit certificates in various General Knowledge quizzes.
- Represented college/ I.I.T./ School in Swimming, Water polo, Badminton, Basketball, Chess and other sports activities.

Personal Details

Date of Birth: July 26, 1966

Nationality: Indian

Passport Details: J2426507 Valid Till January 02, 2021

Marital Status: Married, with two sons, aged 20 years and 16 years respectively.

Wife: Dr. Pritee Khanna, Associate Professor, Department of CSE at IIITDM Jabalpur, India.

Father: Prof. R.K. Tandon, Retired Professor and Dean, Faculty of Management, Kurukshetra University, Kurukshetra. 136 119

(PUNEET TANDON)