

Papers in International/National Journals:

- Dr. Manoj Kumar Gupta, Er. Vikas, "Condition Monitoring of Engine Components by Spectroscopic Oil investigation", ACERVO Journal, Vol 10, Issue 7, 2025.
- Dr. Manoj Kumar Gupta, Er. Vikas, "Finite Element Analysis of Spur Gears using SAPH-440 low carbon steel material", ACERVO Journal, Vol 10, Issue 7, 2025.
- Dr. Manoj Kumar Gupta, "Topology Optimization of Herringbone Gear", ACERVO Journal, Vol 10, Issue 7, 2025.
- Dr. Manoj Kumar Gupta, "Static Structural Analysis of Herringbone Gear by using FEA", Tanz Research Journal, ISSN 1869-7720, Vol 11, Issue 7, 2025.
- Dr. Manoj Kumar Gupta, Er. Vikas, "Finite Element Analysis of Spur Gears Using AL 7075- TIC Composites Materials", Tanz Research Journal, ISSN 1869-7720, Vol 11, Issue 6, pp. 563-576, 2025.
- Er. Vikas, Dr. Manoj Kumar Gupta, "Finite Element Analysis of Spur Gears Using 217XG, Vanadium Steel, Ni-Cr-Mo-V Steel & Chrome Vanadium Materials", Tanz Research Journal, ISSN 1869-7720, Vol 11, Issue 6, pp. 499-511, 2025.
- Er. Vikas, Dr. Manoj Kumar Gupta, "Finite Element Analysis of Spur Gears using Mg-SiC Composites & NASA 398 T5 Materials" RIDMSEF 2025, National Institute of Technology Rourkela, 2025 (Accepted for Publication in Scopus Indexed Springer Journal).
- Er. Farman, Dr Manoj Kumar Gupta, "Finite Element Analysis of Spur Gear Manufactured of Al7475-SiC Composites", Journal of Polymer and Composites, ISSN 2321-2810, STM Journals, Vol. 12, Issue 1, 2024.
- **'Analysis of Connecting Rod under Different Loading Condition Using ANSYS Software'** Design Engineering, ISSN 0011-9342, Vol. 2021, Issue 5, 2021, pp. 619-627.
- **'Dynamic & Vibration Analysis of Stack: A Case Study'** International Journal of Interdisciplinary Innovative Research & Development, ISSN 2456-236X, Vol. 05, Issue 01, 2020, pp. 429-432.
- **'Mathematical Model to Predict the Plume Behavior under Abnormal Conditions in Indian Context'**, International Journal of Grid and Distributed Computing, Italy, ISSN: 2348-2354, Vol. 13, No. 1, 2020, pp. 2348-2354.
- **'Criteria for Fatigue Design of Steel Stacks: A Case Study'**, 'Journal of Critical Reviews', ISSN: 2394-5125, Vol. 7, 2020, pp. 3063-3072.
- **'Algorithm for Optimization of Design Parameters of Small Stacks'**, 'International Journal of Management, Technology and Engineering', ISSN 2249-7455, Vol. 9 (7), July 2019, pp. 933-943.
- **'Latest Measures to Keep Chimneys in Step with plant Changes'** in 'International Journal of Engineering Research & Technology', ISSN 2278-0181, Vol. 3 (5), May 2014, pp. 333-336.
- **'Fatigue Design of Smoke Stacks'** in "International Journal on Design and Manufacturing Technologies", Chennai, ISSN 0973-9106, Vol. 8 (1), Jan 2014, pp. 21-26.
- **'Design of Smoke Stacks'** in 'Journal of The Institution of Engineers (India), Calcutta', ISSN 0020-3408, Vol. 91 (2), July 2010, pp. 17-21.
- **'Design of Vibration-Dampers for Steel Chimneys with Latest Features'** in 'International Journal on Design and Manufacturing Technologies', Chennai, ISSN 0973-9106, Vol.3 (2), July 2009, pp. 39-42. [Web of Science]

- **‘Long-Term Structural Integrity of Steel Stacks: Proposed Tools for Inspection & Maintenance’** in ‘International Journal of Mechanical Engineering’, N Delhi, ISSN 0974-5823, Vol. 3 (1), Jan-June 2010, pp 109-111.
- **‘Optimization of Design Parameters of Steel Chimneys’** in ‘International Journal on Design and Manufacturing Technologies’, Chennai, ISSN 0973-9106, Vol. 4 (2), July 2010, pp. 40-46.
- **‘Design of Steel Chimneys: A Review’** in ‘Journal of Multi-Disciplinary Engineering Technologies’, New Delhi, ISSN 0974-1771, Vol. 3 (1), July-Dec 2008, pp 10-16.
- **‘Design of Vibration-Dampers to Suppress Vibrations in Steel Stacks’** in ‘National Journal of Technology’, Coimbatore, ISSN 0973-1334, Vol. 5 (2), June 2009, pp 68-73.
- **‘Inspection and Maintenance of Stacks: Proposed Guidelines’** in ‘SOCH-Mastnath Journal of Science & Technology’, Asthal Bohar, Vol. 4, Dec 2009, pp. 61-64.
- **‘Dispersion Analysis of Plume from Stacks’** in ‘Journal of Multi-Disciplinary Engineering Technologies’, New Delhi, ISSN 0974-1771, Vol. 4 (1), July-Dec 2009, pp. 11-18.
- Dr. Karthik, Dr. Gupta M K, **‘Changing Employee Engagement Practices in Global and Indian Companies: A Technique to Reduce Employee Turnover’**, Journal of Maharaja Sayajirao University of Baroda, ISSN: 0025-0422, Vol. 55, No. 1 (VI), 2021, pp. 1477-1492.
- Dr. Kannan P, Dr. Gupta M K, **‘A Critical Review of the Literature on Analyzing the Role of Electronic Customer Relationship Management’**, Journal of Maharaja Sayajirao University of Baroda, ISSN: 0025-0422, Vol. 55, No. 1 (VI), 2021, pp. 1462-1476.

Papers in International/National Conferences:

- Vikas, Dr. Manoj Kumar Gupta, **“Finite Element Analysis of Spur Gears using Mg-SiC Composites & NASA 398T5 Materials”**, Recent Innovations and Development in Material Science and Emerging Fields (RIDMSEF)-2025, National Institute of Technology Rourkela, March 5-6, 2025.
- Vikas, Dr. Manoj Kumar Gupta, **“Finite Element Analysis of Spur Gear”**, International Conference on Recent Trends in Engineering and Sciences (RTES-2025), Sardar Vallabhbhai National Institute of Technology Surat, Feb 14-15, 2025.
- Vikas, Dr. Manoj Kumar Gupta, **“Finite Element Analysis of Spur Gears using 217XG, Vanadium Steel, Ni Cr-Mo-V Steel & Chrome Vanadium Materials”**, International Conference on Modern Manufacturing and Management Intelligence, National Institute of Technology Jamshedpur, Feb 27 to March 01, 2025.
- Farman Mirza, Dr. Manoj Kumar Gupta **“Finite element analysis of spur gear manufactured of Al7475-SiC composites”**, International Conference on Mechanical Engineering & Technology (ICMET-2024), Department of Mechanical Engineering, National Institute of Technology, Kurukshetra, March 1-3, 2024.
- Mohd Faijan, Dr. Manoj Kumar Gupta, **“Finite Element Analysis of Split Muff Coupling”**, International Conference on Mechanical Engineering (ICMET-2024), Department of Mechanical Engineering, National Institute of Technology, Kurukshetra, March 1-3, 2024.

- **‘Criteria for Fatigue Design of Steel Stacks: A Case Study’** in 2nd International Conference online on Contemporary Advances in Mechanical Engineering at Chandigarh Engineering College, Mohali, ICCAME-2020, July 27-28, 2020.
- **‘E-Commerce, Trade and the COVID-19 Pandemic’** in ‘International E-conference on Covid-19 Pandemic: Issues, Challenges and Opportunities for International Trade, E-commerce and Employment’ Aurangabad on May 29, 2020.
- **‘Dynamic & Vibration Analysis of Stack: A Case Study’** in 4th International Conference (Online) on Recent Trends Research in Engineering & Science, Malikpur (ICRTRES-20) during May 2-3, 2020.
- **‘Algorithm for Optimization of Design Parameters of Steel Stacks’** in International Conference at Chandigarh Engineering College, Mohali ICCAME-2019 during July 25-26, 2019.
- **‘Changing Paradigm of Copyright, Patent and other IPR Issues in India’** in ‘National Conference on Changing Paradigm of Copyright, Patent and other IPR Issues in India’ at MM (DU), Mullana on April 25-26, 2020.
- **‘Current Developments to Keep Chimneys in Line with Operational Changes’** in ‘International Conference on Newest Drifts in Mechanical Engineering’ at MM(DU) Mullana (Ambala) during December 20-21, 2014.
- **‘Latest Trends in Fuel Cell Based Vehicles’** in ‘National Conference on Applications of Mechanical Engineering for 21st Century’ at Appejay College of Engineering, Sohna on March 29, 2008.
- **‘Need of Vibration-Dampers for Steel Stacks’** in 2nd National Conference on ‘Advances in Manufacturing Technology’ at National Institute of Technical Teachers’ Training and Research, Chandigarh during March 06-07, 2008.
- **‘Vibration-Dampers for Smoke Stacks’** in 3rd International Conference on ‘Applied & Theoretical Mechanics’ ‘MECHANICS ‘07’ at Tenerife, Spain during Dec 14-16, 2007. [SCOPUS INDEXED]
- **‘Design of Smoke Stacks’** in ‘Global Conference on Production & Industrial Engineering’ ‘CPIE 2007’ at National Institute of Technology, Jalandhar during March 23-24, 2007
- **‘Development and Design of Smoke Stacks’** in National Conference on ‘Trends and Advances in Mechanical Engineering’ ‘TAME 2006’ at YMCA Institute of Engineering, Faridabad during December 9-10, 2006.

Book Chapters/Book:

- Industrial Waste Water Treatment: Process and Procedure, Ist Edition, 2023, Pub: A G publishing House, ISBN 9788119025299.
- Renewable Energy Technology, ISBN 978-93-95468-74-9, Ist Edition, 2022, Pub:, A G publishing House, ISBN 9789395468749.
- Corrosion Protection: Recent developments in organic coatings and application of nanotechnology (Scopus), ISBN-9798369363416, Emerging Technologies and Industrial Applications of Corrosion Science (Ibn Tofail University, Morocco), Global Scientific Publishing, Hershe, USA, pp 167-185.
- Emerging Materials for Energy Storage and Environmental Applications (Scopus), ISBN: 9798369379745, Global Scientific Publishing, Hershe, USA, pp 53-72.
- ‘Laser Ablation Synthesis for the Production of Silver Nanoparticles’ in Trends in Applied Sciences and Computing Engineering by Association of Global Academicians and Researchers Publications, 2021, pp. 748-832.

- Dr. Maitri & Dr. M K Gupta, 'Innovation and Education in the Digital Age: Teaching Padegogy', RISEM 2021, ISBN: 978-81-950236-2-2, pp. 240-275.

Short Term Courses/FDP Attended:

STCs attended (02 weeks or more):

- STC on '**Aalekh 2.0 – The Article Writing Certificate Course**' by Think India from Jan- 06 to Feb 10, 2021.
- STC on '**Induction Training Programme for Newly Recruited Teachers**' by NITTTR Chandigarh from Jan 18-29, 2021.
- STC on '**Refresher Course in Mechanical Engineering**' by NITTTR Chandigarh from Aug 10-21, 2020.
- Short Term Course on '**Entrepreneurial Awareness**' at NIT Kurukshetra from June 25, 2007 to July 04, 2007.
- Short Term Course on '**Modeling & Simulation**' by BBSBEC Fatehgarh Sahib from July 15-26, 2002.
- Program on '**Entrepreneurship Development Program**' by RCED, Chandigarh on behalf of SIDBI, Chandigarh from Dec 27, 2000 to Feb 09, 2001.
- Training Program on '**Diesel Power Plants**' at Mumbai by WNSIN from Oct 5-14, 1999.
- Program on '**Using MS-Office**' at JSL Hisar by NIIT, N Delhi from May 27 to June 16, 1998.

STCs attended (01 week):

- STC on 'CAD using Solid-Works 2024', NITTTR Chandigarh (online), July 15-19, 2024.
- STC on 'Applications of ANSYS-Basics to Advanced', NIT Kurukshetra, July 05-09, 2024.
- STC on 'Recent Advances in Optimization Techniques for Engineering Applications, RAOTEA-2024' by NIT Kurukshetra from March 02-06, 2024.
- STC on 'Advanced Autocad' by NITTTR Chandigarh, January 15-19, 2024.
- STC on 'Research Methodologies and Scientific Research Writing using LaTeX-2024' by NIT Kurukshetra from Jan 04-08, 2024.
- STC on 'Virtual Reality/Augmented Reality in Manufacturing' by NITTTR Chandigarh from Dec 18-22, 2023.
- STC on 'Meditation Course', Thought Lab, NIT Kurukshetra , Sep 12-20, 2023
- STC on 'Effective Communication Skills & Leadership Qualities' by NIT Kurukshetra from June 26-30, 2023.
- STC on Green and Sustainable Energy: Generation & Management, National Institute of Technology Kurukshetra, May 15-19, 2023.
- STC on 'Waste Management', National Institute of Technology Kurukshetra, Jan 11-15, 2023.
- STC on '**3 D Printing & Design**' by DCRUST Murthal from Nov 22-26, 2021.
- STC on '**Accreditation for Quality Assurance (NBA and NAAC Guidelines)**' by NITTTR Chandigarh from July 12-16, 2021.
- STC on '**4 D Printing**' by NITTTR Chandigarh from June 28 to July 03, 2021.
- ATAL FDP on '**Fuel Cell Technology, FCT-2021**' by NIT Rourkela from June 21-25, 2021.
- STC on '**AUTOCAD, ICT-68**' by NITTTR Chandigarh from June 14-18, 2021.

- STC on **‘Green Energy Sources and Clean Technologies, ICT-52’** by NITTTR Chandigarh from June 7-11, 2021.
- STC on **‘Effective Teaching Learning using Social Media, ICTO-49’** by NITTTR Chandigarh from May 31 to June 04, 2021.
- STC on **‘NBA Accreditation and Examination Reforms’** by NITTTR Chandigarh from May 17-21, 2021.
- STC on **‘Hybrid Machining, ICT-50’** by NITTTR Chandigarh from May 10-14, 2021.
- STC on **‘CAD/CAM’** by NITTTR Chandigarh from March 15-19, 2021.
- STC on **‘Advanced AUTO CAD’** by NITTTR Chandigarh from March 08-12, 2021.
- STC on **‘Free and open Source Software (FOSS) Tools for Effective Teaching-Learning’** by NITTTR Chandigarh from Feb 15-19, 2021.
- STTP on **‘Climate Change & Water Security’** by MRSPTU Bhatinda from Feb 01-06, 2021.
- STC on **‘Managing Your Ego and Emotions at Workplace’** by NITTTR Chandigarh from Jan 11-15, 2021.
- STC on **‘Employability Skills for Industry 4.0’** by NITTTR Chandigarh from Jan 04-08, 2021.
- STTP on **‘ROTOR DYNAMICS-Series 3’** by Ambedkar Institute of Technology, Bengaluru from Dec 28, 2020 to Jan 02, 2021.
- STTP on **‘ROTOR DYNAMICS-Series 2 of 3’** by Ambedkar Institute of Technology, Bengaluru from Dec 14-19, 2020.
- STTP on **‘ROTOR DYNAMICS-Series 1 of 3’** by Ambedkar Institute of Technology, Bengaluru from Dec 07-12, 2020.
- STTP on **‘Recent Advances in Tribology and Surface Engineering’ Series 4 of 4-Surface Characterization and Treatments in Tribology’** by Saintgits College of Engineering, Kottayam from Nov 23-28, 2020.
- STC on **‘Computational Methods and Analysis for Engineers’** by NIT Jalandhar from Nov 18-22, 2020.
- STC on **‘Advances in Chemical, Biochemical and Allied Industries’** by NIT Jalandhar from Nov 05-09, 2020.
- STC on **‘Effective Teaching learning using Social Media’** by NITTTR Chandigarh from Nov 02-06, 2020.
- STC on **‘Computational Methods in Engineering Science’** by NIT Jalandhar from Oct 24-28, 2020.
- STTP on **‘Recent Advances in Tribology and Surface Engineering’ Series 3 of 4-Introduction to Special Topics like Nano Tribology, Bio Tribology, Space Tribology and Tribology in Industry’** by Saintgits College of Engineering, Kottayam from Oct 12-17, 2020.
- STC on **‘Gender Equality and Violence against Women during COVID-19’** by NIT Jalandhar from Oct 09-13, 2020.
- STC on **‘Preparing Students for Job Interviews’** by NITTTR Chandigarh from Oct 05-09, 2020.
- STC on **‘Industry 4.0-Industrial Automation Solutions & Applications’** by NIT Jalandhar from Sep 21-25, 2020.
- STTP on **‘Recent Advances in Tribology and Surface Engineering’ Series 2 of 4-Tribology of Machine Components and Applied Tribology’** by Saintgits College of Engineering, Kottayam from Sep 14-19, 2020.
- STC on **‘Intellectual Property Rights’** by NIT Jalandhar from Sep 07-11, 2020.
- FDP on **‘Interdisciplinary Research: Need and Relevance in Science and Technology’** by RKDF University, Bhopal from Sep 01-05, 2020.

- STTP on '**Developing Research and Development Culture in Industry Institute Interaction Oriented Modern Teaching Learning and Project Based Learning**' by Francis Xavier Engineering College from Aug 24-29, 2020.
- STC on '**Applications of AUTOCAD for Engineers**' by NITTTR Chandigarh from Aug 17-21, 2020.
- STC on '**Cryogenics and Composites: Theory and Applications (CCTA-2020)**' by NIT Jalandhar from Aug 3-7, 2020.
- Webinar on '**Atamnirbhar Bharat: Transmutation from Parivartan to Exuberance**' by NITTTR Chandigarh from July 27-31, 2020.
- Workshop on '**Practical Learning through Virtual Lab**' by NPIU & Avadh University, UP from July 20-24, 2020.
- STC on '**Engineering Optimization**' by NITTTR Chandigarh from July 13-17, 2020.
- STC on '**Hybrid Manufacturing Processes: Opportunities and Challenges**' by NIT Jalandhar from July 6-10, 2020.
- STC on '**Technological Evolution and Implementation of Modern Tools in Automotive Engineering**' by UPES Dehradun from June 26-30, 2020.
- STC on '**Employability Skills for Industry 4.0**' by NITTTR Chandigarh June 22-26, 2020
- STC on '**Entrepreneurship and Start-Up Policies 2017**' by NITTTR Chandigarh June 15-19, 2020.
- STC on '**Wellness and Stress Management during the Pandemic**' by NITTTR Chandigarh June 15-19, 2020.
- STC on '**Understanding Project Management Basics**' by NITTTR Chandigarh June 8-12, 2020.
- STC on '**NAAC Revised Framework**' from June 1-8, 2020.
- STC on '**Computer Integrated Manufacturing/Computer Numerical Control**' by NITTTR Chandigarh from May 25-29, 2020.
- STC on '**Role of Teachers and Educational Institutes in Unnat Bharat Abhiyan**' by NITTTR Chandigarh from May 18-22, 2020.
- STC on '**Research Oriented Project Work**' by NITTTR Chandigarh from May 11-15, 2020.
- STC on '**Strategic Planning for Entrepreneurship Promotion**' by NITTTR Chandigarh May 4-8, 2020.
- STC on '**Nanomaterials and Devices**' by NITTTR Chandigarh from April 27 to May 01, 2020.
- STC on '**Curriculum Implementation**' by NITTTR Chandigarh from April 20-24, 2020.
- STC on '**Internet of Things**' by NITTTR Chandigarh from April 10-14, 2020.
- FDP on '**Outcome Base Education & NBA Accreditation**' by NITTTR, Chandigarh at KUK from Nov 4-8, 2019.
- ICT based STC on '**Intellectual Property Rights**' by NITTTR Chandigarh at JMIT Radaur from June 10-14, 2019.
- Short Term Course on '**Advanced and Micro-manufacturing**' at PEC University of Technology, Chandigarh under FDP of TEQIP-II (MHRD) from June 02-06, 2014.
- Short Term Course on '**I C Engines through ICT**' by NITTTR Chandigarh at MM(DU) Mullana from May 27-31, 2013.
- Training Program on '**Solid- Works (High End CAD Software)**' at NIT Kurukshetra from March 10-15, 2003.

Webinar/Workshop attended:

- Workshop on 'Navigate the World of Scientific Article Writing: From Manuscript Structure to Publication' by Springer Nature ONOS on May 15, 2025.
- Workshop on '**Pressure Vessel Design using ASME Code**' by Scootoid eLearning on Feb 25, 2024.
- Webinar on '**Renewable Energy Resources and their Future Aspects in India**' by Himalayan Institute of Engineering & Technology, Kala Amb on May 12, 2023.
- International Web-Workshop on '**Dynamics of Gender Justice and Violence against Women: Issues, Challenges and Remedies**' by Bankura University, West Bengal from Oct 03-05, 2020.
- National Symposium on '**Roadmap for Implementation of New Education Policy, 2020: Rhetoric to Practice**' by CCE Mohali on Oct 03, 2020.
- Webinar on '**Contracts & Tendering**' by SJC Institute of Technology, Karnataka on Sep 30, 2020.
- Webinar on '**Challenges in Pile Load Testing**' by NIT Jalandhar on Sep 24, 2020.
- National Research Program '**Make a Research Paper**' by Mattershere from Sep 06-08, 2020.
- Webinar on '**Why a Manuscript is Rejected**' by NIT Jalandhar on Aug 27, 2020.
- Webinar on '**Innovations in Product Design and Sustainable Manufacturing-IPDSM 2020**' by Government Engineering College, Odisha on Aug 05, 2020.
- Workshop on '**AUTOCAD 2021 & Job-Business Opportunities for Engineering Graduates**' by Rajiv Gandhi College of Engineering & Technology, Puducherry from June 18-19, 2020.
- Webinar on '**Self Reliant India: Opportunities Post Covid-19**' by IIT Roorkee on June 13, 2020.
- Webinar on '**Mendeley for Researchers: Bibliography and Networking**' by KPR Institute of Technology, Coimbatore on June 13, 2020.
- FDP on '**Machine Learning with Matlab**' by Skill to Hire.
- Webinar on '**Sponsored Research Projects (Opportunities, Procedures & best Practices)**' by Engineering Staff College of India, Hyderabad on June 07, 2020.
- FDP on '**Website & Application Development**' by Progressio Alas on June 3, 2020.
- Webinar on '**Smart Manufacturing**' by Shri G S Institute of Technology & Science, Indore on June 1, 2020.
- Webinar on '**Advances in Biomass Energy Technology**' by on Poornima College of Engineering, Jaipur on May 30, 2020.
- Webinar on '**Virtual Labs**' by IIMT Greater Noida on May 29, 2020.
- Webinar on '**Introduction to Robotics**' by Progressio Alas on May 27, 2020.
- Webinar on '**Group Discussion**' by Progressio Alas on May 24, 2020.
- Webinar on '**3 D Printing Technologies: Challenges**' by Sreenidhi Institute of Science & Technology, Hyderabad on May 20, 2020.
- Workshop on '**Fundamentals of Heat Transfer and Fluid Mechanics**' by Chennai Institute of Technology, Chennai May 20, 2020.
- Webinar on '**How to Write Each Section of Your Paper**' by Matterhere on May 17, 2020.
- Workshop on '**Research Scopes in Mechanical Engineering**' by Chennai Institute of Technology, Chennai on May 7, 2020.
- Webinar on '**Fine Tuning Research Planning using Elsevier Tools: Science Direct, Scopus and Mendeley**' on April 24, 2020.
- Webinar on '**How can Technology ensure Continuity in Examinations & Learning**' by Mettl Team on April 09, 2020.

- Workshop on ‘**NPTEL**’ by IIT Roorkee & SWAYAM at CGC Landran on Feb 14, 2020.
- Session to ‘**Support Start Ups**’ by CGC Landran on Jan 10, 2020.
- National Seminar on ‘**Unnat Bharat Abhiyan: Prospects & Challenges**’ by NITTTR Chandigarh in collaboration with IIT Delhi & AICTE on Nov 28-29, 2019.
- Workshop on ‘**Solid Works**’ by DUCAT, Noida at JMIT Radaur on Aug 29, 2020.
- Workshop on ‘**Capacity Building on NBA Accreditation**’ by NWRO AICTE, Chandigarh at Chandigarh College of Architecture from July 8-9, 2019.
- Workshop on ‘**Examination Reforms**’ at DCRUST Murthal by AICTE NWRO Chandigarh on May 25, 2019.
- FDP for ‘**Student Induction Program**’ at UIET, Kurukshetra organized by AICTE, NWRO Chandigarh from July 14-16, 2018.
- National Conference ‘**Changing Paradigm of Copyright, Patent and Other IPR Issues in India**’ at MMU Mullana on April 25-26, 2020.
- Workshop on ‘**Personality and Professional Skills Enhancement**’ by MMU Mullana on Jan 24, 2014.
- National Workshop on ‘**Predictive Mathematical Models in Science and Engineering**’ at NIT Kurukshetra from May 24-25, 2013.
- National Symposium on ‘**Emerging Trends in Mechatronics**’ at NIT Kurukshetra from Dec 27-28, 2007.
- Training Program on ‘**Quality Assurance in Technical Education**’ by NITTTR Chandigarh from May 27-29, 2004.
- Workshop on ‘**Entrepreneurial Opportunities in Haryana**’ by EDC, REC Kurukshetra and CST Haryana on Nov 13, 1991.

Course Coordinator of NITTTR Chandigarh STC of 5 days:

- Local Co-coordinator of ICT based STC on ‘**Intellectual Property Rights**’ at in collaboration with NITTTR Chandigarh from June 10-14, 2019.

Membership of Professional Bodies:

- National Society of Fluid Mechanics & Fluid Power, IIT Bombay.
- Global Society of Technical Education.
- Association of Machines & Mechanisms Bengaluru.
- System Society of India, N Delhi.
- Tribology Society of India, N Delhi Affiliated to International Tribology Council, U.K. (life member)
- The Institution of Engineers (India), Kolkata (Life member since 2014)
- Indian Society of Technical Education, N. Delhi (Life member since 2004)
- The International Institute of Organized Research, India (Life Member)
- The Research India Foundation (Life member).

Reviewer/Editorial Board Member:

- ‘Reviewer’ in Academia Materials Science.
- ‘**Reviewer**’ in Edwin Group of Journal.
- ‘**Member**’ Editorial Board ‘**International Journal of Technology and Engineering Sciences**’.
- ‘**Reviewer**’ in ‘International Journal of Engineering Research & Technology’, ISSN 2278-0181 since May 05, 2014.

- **‘Reviewer’** in ‘International Research Journal of Engineering & Technology’, ISSN 2395-0056 (E)/2395-0072 (P) since Sep 29, 2017.
- **Member** of the **‘International Technical Committee’** for the International Conference on Sustainable Energy & Advanced Manufacturing Systems (ICSEAMS 2025), September 11-13, 2025.
- **Reviewer** of Mechanical Engineering International Conference (MEICON 1.0), OP Jindal University, Raigarh, India, December 19-20, 2024.
- **‘Session Chair’** in Advances in Mechanical Vibrations, ‘International Conference on Newest Drifts in Mechanical Engineering’ at MM (DU) Mullana (Ambala) during December 20-21, 2014.

Member of Bureau of Indian Standards (BIS) Technical Committee:

- Continuous bulk conveying, elevating, aerial ropeways and related equipment sectional committee.
- Wire rope and wire rope products sectional committee.
- Safety of Machinery.

M Tech Guided:

- ‘Finite Element Analysis and Comparative Evaluation of Spur Gears Manufactured of Composite Materials (Mg-SiC, Al7075-TiC) & High strength Steels under Static High Torque Loading Conditions’, May/June 2025.
- ‘Finite Element Analysis of Flywheel’, June 2024.
- ‘Finite Element Analysis of Spur Gear Manufactured of Al7475-SiC Composites’, June 2024.
- ‘Factors Influencing the Cutting Rate of Abrasive Water Jet Machine’, June 2017.

Courses Taught:

Machine Design-I, Machine Design-II, Tribology, Strength of Materials-I, Strength of Materials-II, Engineering Mechanics, Dynamics of Machines, Kinematics of Machines, Engineering Graphics & Drawing, Measurement & Instrumentation, Renewable Energy Systems, I C Engines & Gas Turbines, Power Plant Engineering, Manufacturing Processes, Non-Conventional Machining, Maintenance Engineering, Industrial Engineering & Management, Total Quality Management, Engineering Practice, Mechatronics, Industrial Engineering, Entrepreneurship.

Awards Conferred:

- Awarded ‘Faculty Excellence Awards 2025’ under the category of ‘Academic Excellence Award’ by IJMTST & JTRC.
- Awarded ‘Top 50 Eminent Teachers of the Year 2023’ by International Institute of Organized Research (Registered MSME with Ministry of Micro, Small and Medium Enterprises, GOI).
- Awarded ‘National Academic Excellence Award 2023’ by International Institute of Organized Research (Registered MSME with Ministry of Micro, Small and Medium Enterprises, GOI).