

## Dr. Sanjay Mohan

Associate Professor, School of Mechanical Engineering  
Shri Mata Vaishno Devi University (SMVDU)  
Katra, Jammu, India

Coordinator and CEO  
SMVDU-TBIC

Visiting Faculty  
Indian Institute of Management (IIM)  
Jammu, India

### Contact Address:

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Jammu & Kashmir, India

**Email:** sanjaymohanjk@gmail.com

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**Date of Birth:** 5 March 1975, **Place of Birth:** Jammu, India

**Spoken Language Skills:** English, Hindi, Urdu, Punjabi

**Linkedin Profile:** <https://www.linkedin.com/in/sanjay-mohan-a53b3168/>

**Youtube channel:** <https://www.youtube.com/@sanjaymohansharma>

### Education

- **Ph.D (2018)**      **Mechanical Engineering**, Shri Mata Vaishno Devi University, Jammu, India
- **M.Tech (2010)**    **Industrial Engineering**, Punjab Technical University, Punjab, India
- **B.E (1997)**      **Mechanical Engineering**, Karnataka University, Karnataka, India  
(Currently, Visveswaraiah Technological University)

### Professional Experience

20 <sup>th</sup> Sept 2024- Present	<b>Associate Professor</b> , School of Mechanical Engineering, Shri Mata Vaishno Devi University, Jammu, India
20 <sup>th</sup> Sept 2011 – 19 <sup>th</sup> Sept 2024	<b>Assistant Professor</b> , School of Mechanical Engineering, Shri Mata Vaishno Devi University, Jammu, India
6 <sup>th</sup> August 2009 – 19 <sup>th</sup> Sept 2011	<b>Lecturer</b> , Department of Mechanical Engineering Shri Mata Vaishno Devi University, Jammu, India
2 <sup>nd</sup> June 2003 – 4 <sup>th</sup> Aug 2009	<b>Senior Lecturer</b> , Department of Mechanical Engineering Mahant Bachitter Singh College of Engineering & Technology Jammu, India
17 <sup>th</sup> Dec 1998 – 31 <sup>st</sup> May 2003	<b>Lecturer</b> , Department of Mechanical Engineering Government College of Engineering & Technology (Jammu, India)



29<sup>th</sup> Jan 1998 – 16<sup>th</sup> Dec 1998

**Lecturer**, Department of Mechanical Engineering  
Regional College of Engineering, Srinagar, India  
(Currently, NIT-Srinagar)

### Software Skills

MS Word, Power point, MS Excel, C++

Sl.No	Skill Title	Skill Level	Total Experience	Last used
1	MS Word, Power point, MS Excel,	Intermediate	15+ years	2024
2	C++	Intermediate	5years	2015

### Administrative Responsibilities

- Coordinator Atal Innovation Community Centre (ACIC).
- Coordinator University Admission Committee
- Member of Course Curriculum Revision Committee
- Member of Transport Committee
- Member of National Project Evaluation Committee
- Member of University Purchase Committee
- Member of PG and Ph.D. Evaluation Committee
- Member of Board of Studies for parent and other organisations.
- Involved in developing strategies for UG/PG admissions
- Involved in data collection for University rankings

### Research Interests

- Tribology & Low Friction Materials Development
  - Solid lubricants, Self-lubricating Composites, Green Lubricants
- Development of Ferrous Composites, Light Metal/Alloys Composites
  - Processing by Powder Metallurgy & Casting, Process-Structure-Properties Correlation
- Industrial Engineering and Ergonomics
  - Application of Industrial engineering concepts to enhance the productivity of the Industry.
  - Cost-Effective Equipment Design Solutions for Social Welfare & Blue-Collar Workers

### Research Experience

- Using industrial engineering techniques, industry-based projects were supervised to sort out industrial problems.
- Solutions were provided for problems related to the wear and friction of machine components by developing and characterizing self-lubricating composites/coatings.
- Projects was undertaken to address problems in industrial sectors that involved manual labor, and solutions were provided.

- Presented several papers in national and international conferences in India and abroad.
- Published articles in peer reviewed journals.
- Published patent in Official journal of the Patent Office, India

## **Teaching Interests & Courses Taught**

### **Undergraduate Courses**

- Engineering Mechanics
- Strength of Materials
- Mechanics of Materials
- Machine Design
- Industrial Engineering
- Product Design and Development
- Project Management
- Operations Management
- Mechanical Vibrations

### **Postgraduate Courses**

- Work Study and Ergonomics
- Industrial Tribology
- Metal Forming Technology

## **Completed Online Self-Learning Courses**

### Massive Open Online Course (MOOC)

- Introduction to Operation Management  
University of Pennsylvania (January, 2024)
- Material Science: 10 Things Every Engineer should know  
Georgia Institute of Technology (January, 2023)
- Engineering Systems in Motion: Dynamics of Particles and Bodies in 2D Motion  
Georgia Institute of Technology (February, 2022)
- Introduction to Engineering Mechanics  
Georgia Institute of Technology (January, 2020)
- Mechanics of Materials III: Beam Bending  
Georgia Institute of Technology (September, 2020)
- Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion  
Georgia Institute of Technology (August, 2020).
- Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading  
Georgia Institute of Technology (July, 2017).

### National Programme on Technology Enhanced Learning, (NPTEL) India

- Engineering Mechanics - Statics and Dynamics  
National Programme on Technology Enhanced Learning Course (January-March, 2019)

## **International Research Collaborations**

- University of Malaysia Sabah, Malaysia
- Wenzhou University, China
- Chemnitz University, Germany
- Ohio University

### **Signed MOU with:**

- PSG College of Technology, Coimbatore
- Yalong Industries, Wenzhou, China

- Institute of Laser and Optoelectronic Intelligent Manufacturing, Wenzhou, China

### Sponsored Projects

- Co-Investigator in Project: Range of Motions-Data Collection Submitted to UGC-STRIDE- 2 Crores. (In process), 2019.
- Co-Coordinator in Project:Technology Innovation Hub at SMVDU, 20 lakhs (*on going*)
- Principal Investigator in Project: Ergonomic Apple Harvesting System Sanctioned by PRISM-DST 2 lakhs (Completed).
- Member in the Project: “Training through Established Institutes” Ministry of Human Resource Development (MHRD, India), 2010 (*Completed*)

### Membership of Societies

- Life time member of Tribology Society of India
- Life time member of Indian Society for Technical Education

### Student Projects Supervisor

**PhD:** 02 completed and 01 ongoing

**Postgraduate:** 11

**Undergraduate:** more than 30

### Awards & Achievements

#### Awards

- **Best Paper Award**  
International Conference on Advances in Mechanical Engineering  
Organized by University Technology Mara, 14-16 August, 2019, Kota Kinabalu, Malaysia.
- **Best Presenter Award**  
International Conference on Advances in Mechanical Engineering  
Organized by University Technology Mara, 14-16 August, 2019, Kota Kinabalu, Malaysia.
- **Best Paper Award**  
National Conference on Advances in Mechanical Engineering  
National Institute of Technology, 16 March, 2019, Delhi, India

#### Book Published

- Sanjay Mohan, **Engineering Mechanics**, Kirti Publishers (India) 2019, ISBN: 9789389411010.
- Mohd. Kamal ,Nahiyan Al Azad, Sanjay Mohan, **Advancements in Natural Fibre Composites for Industrial Applications**, Global Academic Excellence (M), SDN BHD, Malaysia EISBN:978-967-2426-46-2

#### Patents

- Sanjay Mohan and Nikhil Kumar, Title: “**Multitasking Mop Handle**”  
Patent No. 508337  
Patent granted by Indian Patent Office, Govt. of India.

#### Session Chair in Workshop/Conferences

1. 2<sup>nd</sup> Virtual International Tribology Research Symposium (ITRS 2021) organised by SRM University held during 8<sup>th</sup> to 10<sup>th</sup> December 2021
2. International Tribology Research Symposium, Organised by SRM University, Chennai, SMVDU, Katra & CAS, Lucknow, 5<sup>th</sup> to 7<sup>th</sup> Nov 2020.

3. 6<sup>th</sup> International Conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET), 17-18<sup>th</sup> January 2020
4. 1<sup>st</sup> International Conference on Advancement in Engineering Sciences, Shri Mata Vaishno Devi University, 28-29<sup>th</sup> September, 2019.
5. 6<sup>th</sup> International Conference on Advances in Mechanical Engineering, Kota Kinabalu, Malaysia, 14-16<sup>th</sup> August, 2019.
6. 5<sup>th</sup> International Conference on Recent Trends and Advancements in Engineering and Technology-2018, Shri Mata Vaishno Devi University, 25-26<sup>th</sup> October, 2018.
7. 2<sup>nd</sup> National Conference on Innovative Trends in Mechanical Engineering-2018, Shri Mata Vaishno Devi University, Katra, India, 23-24<sup>th</sup> March, 2018.
8. National Conference on Innovative Trends in Mechanical Engineering-2017, Shri Mata Vaishno Devi University, Katra, India, 3-4<sup>th</sup> March, 2017.
9. National Conference on Information Technology and Business Analytics-2017, Shri Mata Vaishno Devi University, 7-8<sup>th</sup> January, 2017.

### Invited Talks/Expert Lecture

- Expert lecture on **“Tribology and manufacturing“**, One week Short Term Programme on Sustainable Product Design and Manufacturing, 23<sup>rd</sup> July, 2024
- Invited Talk on **“Lean and Green Manufacturing”**, Faculty Development Program on Green Manufacturing, Shri Mata Vaishno Devi University, 7<sup>th</sup> Feb.2024
- Expert Lecture on **“Fundamentals of Product development”**, Technology Innovation Hub, Shri Mata Vaishno Devi University, 6<sup>th</sup> March, 2024
- Invited talk on **“The Role/Scope of Mechanical Engineering”**, KC Public School, Jammu, 10<sup>th</sup> November, 2023.
- Expert lecture on **Exploring the Critical Implications of Night Driving and Drowsiness**, Shri Mata Vaishno Devi University, 22<sup>th</sup> September, 2023
- Invited Expert in a **Workshop on Course Curriculum development** of Mechanical and Automobile Engineering, Govt.Polytechnic, Vikram Chowk, Jammu, 9<sup>th</sup> May, 2023.
- **“Ergonomics for Engineers”**, Invited Talk at Govt,Polytechnic College, Reasi, India 11<sup>th</sup> Feb, 2023.
- **“Novel Fe-Cu-C based Self Lubricating Composites”** Global Webinar on Materials Science and Engineering, 29-30 August, 2022.
- **“Wear and Friction of Iron based Self Lubricating Composites”** Universidad Tecnica del Norte, 25<sup>th</sup> October, 2021
- **“Iron based Self Lubricating Composites: Green and Sustainable Materials”** Shri Mata Vaishno Devi University,Katra, India, 25<sup>th</sup> May, 2021
- **“Tribology and Manufacturing”** Universiti Malaysia Sabah, Sabah, Malayisa, 29<sup>th</sup> Dec. 2020
- **“The role of tribology in Manufacturing Technology”** Beyant College of Engineering and Technology, Gurdaspur, Punjab, India. 29<sup>th</sup> October.2020
- **“Iron based Self Lubricating Composites”** One week STC, Shri Mata Vaishno Devi University, Katra, 20-24<sup>th</sup> July 2020
- **“Applications of Engineering Mechanics”** Model Institute of Engineering and Technology, Jammu, India, 25 Sept. 2019.
- **“Industrial Engineering and Management”** Mahant Bachitter Singh College of Engineering & Technology, Jammu, India, 8<sup>th</sup> May, 2019.
- **“Engineering Mechanics”** Government Polytechnic, Doda, Jammu, India, 4<sup>th</sup> May, 2019.
- **“Role of Ergonomics in today’s life”** S.Sukhjinder Singh College of Engineering and Technology, Gurdaspur, Punjab, India. 27<sup>th</sup> April, 2019
- Expert Lecture on **“Design and Ergonomics”** Yogananda College of Engineering & technology, Jammu, India, 2<sup>nd</sup> Feb.2018
- **“Inventory Management Empirical Analysis”**

- EDP, Shri Mata Vaishno Devi University, 23<sup>rd</sup> Dec 2017.
- **“Laser and its applications in New Era”**  
Government Polytechnic, Jammu, India, 22<sup>nd</sup> Dec 2016.
- **“Engineering Mechanics and its Applications”**  
Government Polytechnic, Jammu, India, 15<sup>th</sup> Nov 2014.

### **Editorial Member/Reviewer of Journals**

- Associate Editor of Journal of Transactions on Intelligent Welding Manufacturing, Springer.
- Member of Editorial Board of Journal of Polymer Science & Engineering, EnPress Publications, U.S.A.
- Member of the Steering Committee of The 2019 International Workshop on Intelligent Welding Manufacturing (IWIWM'2019)
- Reviewer of INSPIRE Awards-MANAK for the year 2020-21, National Innovation Foundation, India
- Reviewer of Springer, Elsevier, Wiley Online, Inderscience, MDPI Publications.

### **Laboratory and Teaching Aids Development**

- Established Tribology Lab, Shri Mata Vaishno Devi University, Katra, Jammu, India.
- Development of Mechanical Vibrations Lab, Shri Mata Vaishno Devi University, Jammu, India.
- Development of Engineering Mechanics Lab, Shri Mata Vaishno Devi University, Katra, India.
- Development of Strength of Materials Lab, Shri Mata Vaishno Devi University, Jammu, India.

### **Short Term Course/FDP/Workshops/Webinars Attended (National & International)**

1. Industrial Training at Shuvam Industries, Industrial Estate, Digiana, Jammu from 01/06/24 to 14/06/24.
2. Faculty Development Programme on “Material Characterization Techniques”, National Institute of Technical Teachers Training and Research, Chandigarh, 4-8<sup>th</sup> December, 2023.
3. Workshop on “Advancement in Renewable Energy, Design and Manufacturing, Department of Mechanical Engineering, National Institute of technology, Manipur, India, 30 Oct.-03 Nov.2023
4. 1<sup>st</sup> Indo Russian International Symposium/FDP on Tribological Aspects of Smart Materials and Adaptive Coatings for Space/Industrial Applications, organised by National Institute of Technology, Srinagar, India and Russian Academy of Sciences, Russia, 3-7<sup>th</sup> October, 2022.
5. “Modern Trends in Manufacturing Processes and Control Techniques in Renewable Energy System”, Faculty Development Programme organized by Department of Mechanical Engineering, National Institute of Technology Delhi, India during November 16<sup>th</sup> - 21<sup>st</sup>, 2021.
6. “Training on man-Machine System”, 3 weeks training at J.K.Plastic Industry at Bari Brahmna, Jammu, 1-21<sup>st</sup> July, 2021.
7. “Sustainable Product Design and Manufacturing (Phase II)”, AICTE-ISTE sponsored Induction/Refresher program on held online during April 15-21, 2021.
8. “Sustainable Product Design and Manufacturing (Phase I)”, AICTE-ISTE sponsored Induction/Refresher program on held online during March 18-24, 2021
9. “Recent Advances in Tribology and Surface Engineering: Surface Characterization and Surface treatment in Tribology”, AICTE sponsored Short Term Training Programme organised by Saintgits College of Engineering, Kerela, 23 – 28<sup>th</sup> Nov. 2020,
10. “Recent Advances in Tribology and Surface Engineering”, Short Term Course, Sponsored by All India Council for Technical Education (AICTE), Saintgits College of Engineering, Kottayam, India, 14 - 19<sup>th</sup> September, 2020.

11. "Atmanirbhar Bharat: Environment Sustainability", One day webinar organised by NITTTR Kolkata, 16<sup>th</sup> August 2020.
12. "Hybrid Manufacturing Processes: Opportunities and Challenges", TEQIP-III sponsored one week online Short Term Course organised by National Institute of Technology, Jalandhar, 6-10<sup>th</sup> July, 2020.
13. "Reconfiguring the Mind: Post COVID Consciousness", Five days Faculty Development Programme, Jyoti Nivas College, Bengaluru, India, 23 - 27<sup>th</sup> June, 2020.
14. "Advanced Laser Manufacturing technology & Applications", International Workshop for Three weeks sponsored by Department of International Cooperation, Ministry of Science & Technology. Organised by Institute of Laser and Optoelectronic Intelligent Manufacturing, Wenzhou University, Wenzhou, China, 13 Oct 2019 – 1<sup>st</sup> Nov 2019.
15. "Professional Ethics and Human Values-A Gandhian Perspective", One week workshop conducted by FDC at Shri Mata Vaishno Devi University, Katra, 11-15 March, 2019.
16. "Advances in Clean Energy Conversion Technologies and Materials for Energy Storage Applications", National Workshop Sponsored by DST, SERB and TEQIP-III conducted at Shri Mata Vaishno Devi University, 24-25 January, 2019.
17. "Best Manufacturing Practices", TEQIP-III sponsored FDP organised by Shri Mata Vaishno Devi University, Katra, 17<sup>th</sup> – 21<sup>st</sup> Dec 2018.
18. "Professional Development Training", Sponsored by Technical Education Quality Improvement Programme (TEQIP III) Organized by Indian Institute of Management (IIM) Indore, 04 - 06<sup>th</sup> July, 2018.
19. "Active Learning Workshop", Summer Training Programme, Sponsored by Technical Education Quality Improvement Programme (TEQIP III) and conducted by Indian Institute of Technology (IIT) Bombay, India, 11 – 15<sup>th</sup> June, 2018.
20. "Information and Communication Technology (ICT) for Education", Foundation Programme, Conducted by Indian Institute of Technology (IIT) Bombay, India, 08 March -12<sup>th</sup> April, 2018.
21. "Electron Microscopy & Microanalysis of Materials", Short Term Course, Conducted by Indian Institute of Technology-Banaras Hindu University (IIT-BHU), India, 12 – 17<sup>th</sup> Feb, 2018.
22. "Workshop on NBA Accreditation", TEQIP-III Sponsored 3 days Workshop organised by The Institution of Engineers, 8-10<sup>th</sup> December, 2017.
23. "One day Workshop on Patent Drafting and Filing", organised by Department of Science and Tech, Govt Of India, 20<sup>th</sup> Oct, 2016.
24. "Recent trends in Automobile Engineering", Short Term Course, Conducted by (NITTTR), Chandigarh, India. 29 Feb – 04<sup>th</sup> March, 2016.
25. "Gender Studies (ID)", Refresher Course, conducted by Kashmir University, Kashmir, India, 25 May 2015 to 16 June 2015 .
26. "Two weeks Refresher Course on Experimental Physics" conducted by School of Physics sponsored by IASc, INSA, NASI, 10-25 Dec. 2014.
27. "General Orientation Course", conducted by University of Jammu, Jammu, India, 17 June 2014 - 14<sup>th</sup> July 2014.
28. "Coordinators Workshop on Engineering Mechanics", One week Continuing Education Programme (CEP) conducted by Indian Institute of Technology (IIT) Bombay, India, 16 – 20<sup>th</sup> Sept, 2013.
29. "Processing and Fabrication of Metal Matrix Composites", Short term course, conducted at Indian Institute of Technology (IIT) Roorkee, India, 1 - 5<sup>th</sup> July, 2013.
30. "Two day ISTE WORKSHOP on Akash for Education", Conducted by IIT Bombay, MHRD, 10-11<sup>th</sup> Nov 2012.
31. "Introduction to Research Methodologies", Two week Workshop by Indian Society for Technical Education (ISTE) conducted by Indian Institute of Technology (IIT) Bombay, India 25<sup>th</sup> June – 4<sup>th</sup> July, 2012
32. "Staff Development Programme", Short term course, Sponsored by Sponsored by All India Council for Technical Education (AICTE) organised by Mahant Bachitter Singh College of Engineering & Technology (MBSCET) Jammu, India, 18th Feb - 1st March 2008.
33. "Advances in Manufacturing Technology", Short term course, Conducted at National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh, India, 21<sup>st</sup> - 25th March 2005.

34. "CNC Turning and CNC Milling", conducted at MTAB-DENFORD TECHNOLOGY CENTRE, Chennai, India. 29th Dec. 2003 - 02<sup>nd</sup> Jan. 2004.
35. "CNC Programming", conducted at Department of Manufacturing Processes and Automation Engineering, Flexible Manufacturing Systems Lab, NSIT , New Delhi, 14-19 July, 2003

## Technical Publications

## Book Chapters

1. Singh, K., **Mohan, S.**, Konovalov, S., & Graf, M. (2023). Effect of nano-hydroxyapatite and post heat treatment on biomedical implants by sol-gel and HVOF spraying. In *Nanomaterials for Sustainable Tribology* (pp. 257-285). CRC Press.
2. **Mohan, S.**, Anand, A., Kumar, R., Kamal, M. (2022). The Role of Postural Assessment Techniques in Different workplaces—A Review. In: Chakrabarti, D., Karmakar, S., Salve, U.R. (eds) *Ergonomics for Design and Innovation*. HWWE 2021. Lecture Notes in Networks and Systems, vol 391. Springer, Cham. [https://doi.org/10.1007/978-3-030-94277-9\\_149](https://doi.org/10.1007/978-3-030-94277-9_149)
3. Wani, S. N., **Mohan, S.**, & Kamal, M. (2022). Engineering and Ergonomics—An Important Aspect in Fruit Harvesting Systems. In *Advances in Mechanical and Materials Technology* (pp. 1453-1461). Springer, Singapore.
4. Sharma, S., Mahajan, P., & **Mohan, S.** (2022). Study of High-Velocity Oxy-fuel Coating Technique and Fe-Based High-Velocity Oxy-fuel Coatings. In *Advances in Mechanical and Materials Technology* (pp. 649-661). Springer, Singapore
5. Gurpreet Singh Bali, S., Singh, G., Singh, B., & **Mohan, S.** (2022). Improvement in Overall Equipment Effectiveness in Manufacturing Industry Using Autonomous Maintenance. In *Advances in Mechanical and Materials Technology* (pp. 455-468). Springer, Singapore.
6. Kumar, R., Haq, M. I. U., Raina, A., **Sharma, S. M.**, Anand, A., & Abdollah, M. F. B. (2021). Tribological Behaviour of Natural Fibre Based Polymer Composites. In **Tribology of Polymer and Polymer Composites for Industry 4.0** (pp. 55-69). Springer, Singapore
7. Raina, A., Haq, M. I. U., Mohan, S., Anand, A., & Graf, M. (2021). Materials for Tribological Applications: An Overview. *Tribology and Sustainability*, 3-22.
8. Mir Irfan Ul Haq, S. Jayalakshmi, R. Arvind Singh, **Sanjay Mohan**, Ankush Raina, Xizhang Chen, Sergey Konovalov and Manoj Gupta *Mechanical and Tribological Properties of Aluminium Based Metal Matrix Nanocomposites Book: **Encyclopaedia of Materials: Composites, By Elsevier*** (Accepted, 2021).
9. S. Jayalakshmi, R. Arvind Singh, **Sanjay Mohan**, Sankaranarayanan Seetharaman, Xizhang Chen, S.V. Konovalov, and M. Gupta, 'Mechanical Properties and Tribological Behaviour of Magnesium Metal Matrix Composites with Nano-Sized Reinforcements', Section 1: Light Alloys and Metal Matrix Composites, **Encyclopaedia of Materials: Metals and Alloys, Reference Module in Materials Science and Materials Engineering**, Elsevier Publication (January 2020) DOI: 10.1016/B978-0-12-819726-4.00045-4.
10. **Mohan, S\***, Anand, A., Haq, M. I. U., Raina, A., & Kumar, R. (2020). Calcium Fluoride a Potential Solid Lubricant for Green Tribology and Sustainability. *In Recent Advances in Mechanical Engineering* (pp. 587-595). Springer, Singapore.



11. Slathia, S., Anand, R., Haq, M. I. U., Raina, A., **Mohan, S.**, Kumar, R., & Anand, A. (2020). Friction and Wear Behaviour of AA2024/ZrO<sub>2</sub> Composites: Effect of Graphite. *In Recent Advances in Mechanical Engineering*, pp. 597-601. Springer, Singapore.

### Journal Publications (SCI-E/SCOPUS)

1. Singh, K., UI Haq, M. I., & Mohan, S. (2024). Synergism of h-BN and La<sub>2</sub>O<sub>3</sub> in improving the tribological performance of Al<sub>2</sub>O<sub>3</sub> coatings. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 13506501241272777.
2. De Stefano, M., Tech, M., Singh, K., Raina, A., Mohan, S., UI Haq, M. I., & Ruggiero, A. (2024). Tribocorrosion of 3D Printed Dental Implants: An Overview. *Journal of Taibah University Medical Sciences*, 1-12. doi: 10.1016/j.jtumed.2024.05.004
3. Singh, K., Haq, M. I. U., & Mohan, S. (2024). Tribological Behavior of Novel Al<sub>2</sub>O<sub>3</sub>-La<sub>2</sub>O<sub>3</sub> HVOF Composite Coatings. *Tribology International*, 109427. <https://doi.org/10.1016/j.triboint.2024.109427>
4. Mohan S, Anand A, Raina A, et al. High temperature tribological response of Fe-2Cu-0.8C-CaF<sub>2</sub> self-lubricating composites at high speeds. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2024;0(0). doi:10.1177/13506501241233356
5. Haleem, A., Javaid, M., Khan, I. H., & Mohan, S. (2023). Significant Applications of Artificial Intelligence Towards Attaining Sustainability. *Journal of Industrial Integration & Management*, 8(4).
6. Srivivas, P. D., Gupta, A., Medhi, T., Arumugam, S., Kumar, D., & Mohan, S. (2023). Corrosion and Tribo-Investigations on Alumina–Graphene-Doped Hybrid Aluminium Composites. *Transactions of the Indian Institute of Metals*, 1-11. doi:10.1007/s12666-023-02999-x
7. Gupta, A., Pattnayak, A., Abhijith, N. V., Kumar, D., Chaudhry, V., & Mohan, S. (2023). Development of alumina-based hybrid composite coatings for high temperature erosive and corrosive environments. *Ceramics International*, 49(1), 862-874. <https://doi.org/10.1016/j.ceramint.2022.09.059>
8. Farooq, S. A., Raina, A., Haq, M. I. U., Rajabi, A., Mohan, S., & Anand, A. (2022). Tribo-corrosion behaviour of composites and coatings: An overview of influencing factors, evaluation methods and inhibitors. *Jurnal Tribologi*, 35, 92-116.
9. Javaid, M., Haleem, A., Khan, I. H., Singh, R. P., Suman, R., & Mohan, S. (2022). Significant features and applications of Drones for Healthcare: An overview. *Journal of Industrial Integration and Management*.
10. Zhao, S., Xin, D., Chen, X., Stasic, J., Trtica, M., Siddiquee, A. N., & Mohan, S. (2022). Microstructure and enhanced tensile properties of AlCo<sub>x</sub>CrFeNi high entropy alloys with high Co content fabricated by laser melting deposition. *Journal of Alloys and Compounds*, 165403. <https://doi.org/10.1016/j.jallcom.2022.165403>

11. Parshant Kumar, Vijay Kumar Srivastav, Deepak Kumar, **Sanjay Mohan Sharma**. Self and Complementary Mating Of Carbon-Carbon and Carbon-Carbon-Silicon Carbide Composites in Reciprocating Tribo-Interactions, *Tribology in Industry* (online, May 2022)
12. Sheikh Aamir Farooq, Ankush Raina, Mir Irfan UI Haq, **Sanjay Mohan**, R Arvind Singh, S Jayalakshmi. Nanostructured Coatings: Review on Processing Techniques, Corrosion Behaviour and Tribological Performance. *Nanomaterials*, 2022, 12(8), 1323.
13. Sheikh Aamir Farooq, Ankush Anand, Ankush Raina and Mir Irfan UI Haq, **Sanjay Mohan**. Tribocorrosion Behaviour of Composites and Coatings: An Overview of Influencing Factors, Evaluation and Methods and Inhibitors. *Jurnal Tribologi* (Accepted, 2022)
14. Javaid, M., Haleem, A., Rab, S., Singh, R.P., Suman, R. and **Mohan, S.** (2022), "Progressive schema of 5G for Industry 4.0: features, enablers, and services", *Industrial Robot*, 49/3 (2022) 527–543.
15. Sharma, A., Mehtab, R., **Mohan, S.**, & Shah, M. K. M. (2021). Augmented reality—an important aspect of Industry 4.0. *Industrial Robot*: 49/3 (2022) 428–441
16. Gagandeep Singh, Hartaj Singh, Kapil Singh, Sachit Vardhan, **Sanjay Mohan**, (2021). Mechanical characterization of the fractured AA 6061 based composites reinforced with B<sub>4</sub>C particulates. *Materials Today Proceedings*, vol.60(2),1086-1089.
17. Singh, H. Singh K., Vardhan, S., **Mohan, S.** (2022). A comprehensive review on the new developments consideration in a stir casting processing of Aluminium Matrix Composites. *Materials Today Proceedings*, vol.60(2), 974-981
18. Kapil Singh, Hartaj Singh, Sachit Vardhan, **Sanjay Mohan**, (2021). An overview on the synthesis of aluminium matrix composites using stir casting technique. *Materials Today Proceedings*, vol.60(2), 868-872.
19. Kumar, R., UI Haq, M. I., **Sharma, S. M.**, Raina, A., & Anand, A. (2021). Effect of water absorption on mechanical and tribological properties of Indian ramie/epoxy composites. Proceedings of the Institution of Mechanical Engineers, *Part J: Journal of Engineering Tribology*, 13506501211005635.
20. Raina, A., Irfan UI Haq, M., Anand, A., **Mohan, S.**, Kumar, R., Jayalakshmi, S., & Arvind Singh, R. (2021). Nanodiamond Particles as Secondary Additive for Polyalphaolefin Oil Lubrication of Steel–Aluminium Contact. *Nanomaterials*, 11(6), 1438
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23. Mir Irfan UI Haq , Ankush Raina , **Sanjay Mohan Sharma\***, Ankush Ananda & Mohd Fadzli Bin Abdollah, Potential of AA7075 as a Tribological Material for Industrial Applications -A Review, *Indian Journal of Pure and Applied Physics*, vol. 59, pp. 197-201, March 2021.
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26. Hartaj Singh, Kapil Singh\*, Sachit Vardhan, **Sanjay Mohan** (2021). Study on the wear performance of AA 6061 and AA 6082 based metal matrix composites, *Materials Today Proceedings*, vol. 43(1), 660-664
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28. **Sanjay Mohan\***, Ankush Anand , Mir Irfan Ul Haq , Ankush Raina , Rajiv Kumar & Mohd Kamal (2020). Development of a NIOSH based software tool for musculoskeletal disorders. *Indian Journal of Engineering & Materials Sciences*, 27, 860-865.
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34. **Sharma, S. M\***, & Anand, A. (2018). Effect of Speed on the Tribological Behavior of Fe–Cu–C Based Self Lubricating Composite. *Transactions of the Indian Institute of Metals*, 71(4), 883-891. <https://doi.org/10.1007/s12666-017-1228-1>
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38. Singh, N., Mir, I. U. H., Raina, A., Anand, A., Kumar, V., & **Sharma, S. M.** (2017). Synthesis and tribological investigation of Al-SiC based nano hybrid composite. *Alexandria Engineering Journal*, vol.57(3), 1323-1330.

39. **Sharma, S. M\***, & Anand, A. (2016). Solid Lubrication in Iron Based Materials--A Review. *Tribology in Industry*, 38(3).
40. **Sharma, S. M\***, Singh, S., Singh, B., Javaid, M., & Asjad, M. (2016). Some investigations on low back pain amongst workers involved in lifting tasks. *International Journal of Procurement Management*, 9(6), 659-683.

## Conference Presentations/Publications

### International

1. **Sanjay Mohan**, Mir Irfan Ul Haq, Khushneet Singh, Influence of doping element in Hydroxyapatite as a Coating material to enhanced its Corrosion properties and Biocompatibility for Biomedical Implants, 2nd International Conference on Mathematical, Engineering and Management Sciences, (ICMEMS-2023), Malaviya Institute of Technology, Jaipur, India, May21-22
2. Khushneet Singh, **Sanjay Mohan**, Influence of alloying elements in magnesium to enhance its biocompatibility and tribological performance: A Review, 12-13 November, ICAME-2022, NIT Delhi, India
3. **Sanjay Mohan**, Ankush Anand, Rajiv Kumar, Mohd Kamal , The role of Postural Assessment Techniques in different workplaces- A Review”, HWWE 2021, 1-3 December, 2021, IIT Gowhati.
4. Khushneet Singh, **Sanjay Mohan**, “Analysis of Optimized Parameters of HVOF Spray Coating by Taguchi Method and ANOVA Analysis in Coatings”, 2nd Virtual International Tribology Research Symposium (ITRS 2021), held during 8th to 10th December 2021.
5. Raied Mehtab, **Sanjay Mohan**, “New Methods for Fe Based Coatings; Process Parameter, Influence on Tribological Properties and Challenges”, 2nd Virtual International Tribology Research Symposium (ITRS 2021), held during 8th to 10th December 2021.
6. **Sanjay Mohan\***, Ankush Anand, Mir Irfan Ul Haq, Ankush Raina, Rajiv Kumar, Marcel Graf, High Temperature Tribological Behavior of Fe-Cu-C based Self-lubricating composites for High Speed Applications, **International Tribology Research Symposium** held during 5<sup>th</sup> to 7<sup>th</sup> November 2020, Organised by SRM, Chennai, SMVDU, Katra & CAS, Lucknow, India.
7. Mohamad Kamal Mohamad Shah, **Sanjay Mohan**, Irma Othman, M. Zakrymizam Yusuf and Alexander C, Investigation of Tensile properties of Bambusa Vulgaris Reinforced Unsaturated Polyester Resin, **1st International Conference on Energy, Materials Sciences and Mechanical Engineering (EMSME - 2020)**, National Institute of Technology Delhi, Delhi, India held during October 30th - November 01st, 2020
8. **S Mohan\***, A. Anand, R. A Singh, S. Jayalakshmi, X. Chen, S. Konovalov, Friction and wear study of Fe-Cu-C-CaF<sub>2</sub> self-lubricating composite at high speed and high temperature, **International Conference on Advances in Mechanical Engineering**, Kota Kinabalu, organized by University Technology Mara, 14-16 August, 2019, Malaysia.
9. Suresh Gupta, Mir Irfan Ul Haq, **Sanjay Mohan Sharma**, Ankush Anand, Ankush Raina, Varun Dutta, Karan Vohra, Rajiv Kumar, Evaluation of mechanical properties of ramie/banana reinforced hybrid composites, **International Conference on Advances in Mechanical Engineering**, Kota Kinabalu, organized by University Technology Mara, 14-16 August, 2019, Malaysia
10. Rahul Sethi, **Sanjay Mohan\***, R. Arvind Singh, S. Jayalakshmi, Synthesis and Characterization of Fe-Mo-BaF<sub>2</sub> Self-Lubricating Composites Prepared by Powder Metallurgy, 161-167, **27th International Conference on Processing and Fabrication of Advanced Materials**, Sweden.
11. **Sanjay Mohan Sharma\***, Ankush Anand, “Self Lubricating Materials and Sustainability- A Review”, **5<sup>th</sup> International Conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET)**, 25-26<sup>th</sup> October 2018, Shri Mata Vaishno Devi University, Katra, India.

12. Sidhant Gandotra, **Sanjay Mohan Sharma\***, "Self Lubricating Materials and Sustainability- A Review", **International Conference on Mechanical Engineering and Allied Sciences(ICMEAS)**, 14-15<sup>th</sup> September, 2018, Shri Mata Vaishno Devi University, Katra, India.
13. Mandeep Singh, Balbir Singh, **Sanjay Mohan Sharma\***, "Recent Development in the Fabrication of Composites using Powder Metallurgy Technique: A Review", **International Conference on Mechanical Engineering and Allied Sciences (ICMEAS)**, 14-15<sup>th</sup> September, 2018, Shri Mata Vaishno Devi University, Katra, India.
14. **Sanjay Mohan Sharma\*** and Ankush Anand, Effect of high speed on the tribological behavior of Fe-Cu-C based self lubricating composite, **International Conference on Emerging Trends in Engineering Innovations & Technology Management (ICET: EITM-2017)**, 16<sup>th</sup>- 18<sup>th</sup> December 2017 NIT Hamirpur, Himachal Pradesh, India.
15. **Sharma, S.M\***, & Anand, "Solid Lubrication in Metal Matrix Composites- A Review", **International Conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET)**, Shri Mata Vaishno Devi University", 3-4<sup>th</sup> September, 2017, Shri Mata Vaishno Devi University, Katra, India.
16. Sachin, Ritender Sharma, Avi Gupta, **Sanjay Mohan Sharma\***, "A review on Green Tribology: Elements, Principles and Perspectives", **International Conference on Renewable Energy for Sustainable Environment: Challenges and Remedies**, 20-21<sup>th</sup> March, 2017, Shri Mata Vaishno Devi University, Katra, India.
17. Balbir Singh, **Sanjay Mohan Sharma** and Varun Dutta, "Six Sigma and its application in service Sectors: Challenges and Opportunities", **2nd International Conference on Applied Economics and Business**, July 28-29, 2016, Shri Mata Vaishno Devi University, Katra, India
18. Ankush Anand, Mir Irfan Ul Haq, Ankush Raina, Karan Vohra, Rajiv Kumar, **Sanjay Mohan Sharma**, "Natural Systems and Tribology- Analogies and Lessons", International Conference on Materials Processing and Characterization, Victoria University, Melbourne Australia, 2014
19. Avi Gupta, Rahul Sethi, **Sanjay Mohan Sharma** and Balbir Singh, "Metal Matrix Composites and their Fabrication Routes- A Review", **International Conference on Newest Drifts in Mechanical Engineering**, December 20-21, 2014, Maharishi Markandeshwar University, Ambala, India.
20. Anush Charak, Vineet Dubey, Balbir Singh and **Sanjay Mohan Sharma**, "Study of Various Challenges in Machinability of Hard Materials using Abrasive Jet Machining", **International Conference on Newest Drifts in Mechanical Engineering**, December 20-21, 2014, Maharishi Markandeshwar University, Ambala, India.
21. Vineet Dubey, Anush Charak, Balbir Singh and **Sanjay Mohan Sharma**, "A study of Latest Trends in Hybrid Electro Chemical Machining Process-Review", International Conference on Newest Drifts in Mechanical Engineering, December 20-21, 2014, Maharishi Markandeshwar University, Ambala, India.

### National

1. **Sanjay Mohan**, Mir Irfan Ul Haq, Ankush Anand, Ankush raina, Hemani Sharma, Towards Sustainable Production: The Convergence of Green and Lean Strategies, National Conference on Sustainable Engineering, Technology and Management, 29-30<sup>th</sup> April, 2024, Department of Mechanical Engineering, GIET University, Odisha.
2. Hartaj Singh, **Sanjay Mohan**, Kapil Singh, Sachit Vardhan, A Critical Review on the Fabrication of Aluminium Matrix Composites using Stir casting Route, 3<sup>rd</sup> National Conference on Recent Development in Automobile and Mechanical Engineering (RDAME 21), Department of Automobile Engineering, Easwari Engineering College, 31/03/2021
3. **Sanjay Mohan**, Ankush Anand, Ergonomics - An Important Aspect in Today's World, TEQIP-III sponsored **National Conference on Engineering Science, Technology and Management**, 27-28 March, 2021, Indira Gandhi Institute of Technology, Odisha.
4. **Sanjay Mohan Sharma\***, Ankush Anand, Mir Irfan Ul Haq, Ankush Raina, Rajiv Kumar, Calcium Fluoride a potential lubricant for Green Tribology and Sustainability, **National Conference on Advances in Mechanical Engineering**, National Institute of Technology, New Delhi, 16 March, 2019, India.
5. **Sharma, S.M\***, Neeraj Pandita, Ashwani Koul, Importance of Ergonomics from past to present world- A Review, **2<sup>nd</sup> National Conference on Innovative Trends in Mechanical Engineering (NCITME-2018)**, Shri Mata Vaishno Devi University, 23-24 March, 2018, India.

6. **Sharma, S.M\***, & Anand, A. Self Lubricating Materials-A Solution to Various Engineering Problems of 21<sup>st</sup> Century, **National Conference on Emerging Trends in Materials Science (NCETMS-2018)**, Shri Mata Vaishno Devi University, 7-8 Feb, 2018, India.
7. Anshul Gupta, **Sanjay Mohan Sharma\***, "Mental Health amongst workers- A review", **National Conference on Innovative Trends in Mechanical Engineering**, 3-4<sup>th</sup> March, 2017, Shri Mata Vaishno Devi University, Katra, India.
8. Rahul Sethi, **Sanjay Mohan Sharma**, Ankush raina, Rajiv Kumar, "Engineering Materials and their Properties- Review", **National Conference on Innovative Trends in Mechanical Engineering**, 3-4<sup>th</sup> March, 2017, Shri Mata Vaishno Devi University, Katra, India.
9. Avi Gupta, Rahul Sethi, **Sanjay Mohan Sharma**, Ankush Anand, Mir Irfan-ul-Haq, "Strengthening Mechanisms for Single Phase Alloys- A Review", **National Conference on Innovative Trends in Mechanical Engineering**, 3-4<sup>th</sup> March, 2017, Shri Mata Vaishno Devi University, Katra, India.
10. Balbir Singh, **Sanjay Mohan Sharma**, "Study of various Challenges and Solutions in Maintenance of Critical Components" , Sept 7-8 ,2011, **International Conference on Recent Trends in Mechanical Engineering**, Lingaya's University, Faridabad, India.
11. **Sanjay Mohan Sharma\***, R.K Shahu and Yathesth Anand 2009 "Review of the NIOSH Lifting Equation" **National Conference on Advanced Manufacturing Techniques**, Shri Mata Vaishno Devi University, Nov 5-6 ,2009, Jammu, India
12. **Sanjay Mohan Sharma\***, R.K Shahu and Yathesth Anand 2009 "Data Management System" **National Conference on Advanced Manufacturing Techniques**, Shri Mata Vaishno Devi University, Nov 5-6 ,2009, Jammu, India
13. **Sanjay Mohan**, Balbir Singh "Study of NIOSH Equation and its Application in Manual Load Lifting Jobs In Industries" **All India Seminar on Ergonomics for Improved Productivity**, Nov 21-22, 2009 at AMU, Aligarh, India

## Other Academic Related Activities

### Administrative Positions

- Expert for evaluating DST sponsored Projects.
- Batch Coordinator for UG students.
- Coordinator of M.Tech admissions, Shri Mata Vaishno Devi University (till date)
- Coordinator of Bachelors & Masters Project Work, Shri Mata Vaishno Devi University (till date)
- Board Member for Syllabus Revision, Department of Mechanical Engineering, Jammu University, Jammu, India.

### Events Organised

1. **Coordinated one day workshop** on 3D Printing for Entrepreneurs on 1<sup>st</sup> March 2024 at Shri Mata Vaishno Devi University, Katra, India
2. **Coordinated one day workshop** on Curriculum Planning and Course Design on 21<sup>st</sup> Feb. 2024 at Shri Mata Vaishno Devi University, Katra, India
3. **Coordinated one week workshop** on 3D printing and new product development 5-9<sup>th</sup> Feb. 2024 at Shri Mata Vaishno Devi University, Katra, India
4. **Coordinated Quiz Completion** on Brainiac Challenge: A General Knowledge Quiz for Students", 12<sup>th</sup> December, 2023.
5. **Coordinated one day Seminar** on "Smart Materials: Current Scenario and Future Prospects" 6<sup>th</sup> June, 2023 at Shri Mata Vaishno Devi University, Katra, India
6. **Coordinated one day Workshop** on Current Industrial Scenario: Opportunities and Challenges, 15 March, 2023 at Shri Mata Vaishno Devi University, Katra, India
7. **Organised National Engineers Day** at Shri Mata Vaishno Devi University, Katra, India
8. **Organised webinar**, on Social Initiatives for Financial Awareness, 17<sup>th</sup> Dec 2021.
9. **Organizing Secretary**, International Tribology Research Symposium, Shri Mata Vaishno Devi University Nov 2020, India.

10. **Coordinator**, Short term course on Engineering Optimization from 21-25<sup>th</sup> October, 2019, Shri Mata Vaishno Devi University, India.
11. **Coordinator**, National Workshop on 3D Printing for New Product Development, 13<sup>th</sup> September, 2019, Shri Mata Vaishno Devi University, India.
12. **Member of Organizing Committee**, Indo-US Workshop and CEO Conference, 5-10<sup>th</sup> August 2019, Shri Mata Vaishno Devi University, Katra, India.
13. **Coordinator**, 3<sup>rd</sup> Industry Academia Conclave on “Bridging gap between Industry & Academia”, 8-9<sup>th</sup> January, 2019, Shri Mata Vaishno Devi University, Katra, India.
14. **Organizing Secretary**, Faculty Development Programme on “Best Manufacturing Practices in Industries”, 17<sup>th</sup> – 21<sup>st</sup> December, 2018, Shri Mata Vaishno Devi University, Katra, India.
15. **Organised Expert Lecture** of Sr. Manager, VE Commercial Vehicles, **14<sup>th</sup> Dec 2018**.
16. **Convener**, International Conference on Mechanical Engineering and Allied Sciences, Shri Mata Vaishno Devi University, India. 14-15<sup>th</sup> September, 2018.
17. **Member of Organizing Committee**, 2<sup>nd</sup> National Conference on Innovative Trends in Mechanical Engineering (NCITME-2018), Shri Mata Vaishno Devi University, 23-24<sup>th</sup> March, 2018.
18. **Member of Organizing Committee**, Faculty Development Program on Sustainable Design and Manufacturing, Shri Mata Vaishno Devi University, 12-16<sup>th</sup> February, 2018.
19. **Member of Organizing Committee**, National Seminar on Mechanical Engineering- Research Opportunities and Challenges, Shri Mata Vaishno Devi University, Katra, India. 8<sup>th</sup> April, 2017.
20. **Member of Organizing Committee**, National Conference on Innovative Trends in Mechanical Engineering, 3-4<sup>th</sup> March, 2017, Shri Mata Vaishno Devi University, Katra, India. (Co-Convener).
21. **Coordinator**, 2 weeks Workshop on Engineering Mechanics sponsored by IIT Bombay, 26-06<sup>th</sup> Dec 2013, India.

Place: India

Sanjay Mohan