


Curriculum Vitae

Full Name:	DR. MANOJ KUMAR GUPTA			
Designation:	Assistant Professor			
Department:	Mechanical Engineering			
Campus:	Srinagar, Chauras			
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Education Qualification:	Degree,	University	Year	
	B.E	Birla Institute of Technology, Mesra, Ranchi.	1996	
	M.E	Punjab University, Chandigarh.	2009	
	Ph.D	N.I.T, Uttarakhand, Srinagar, Garhwal, Uttarakhand	2019	
Teaching Experience:	20 Years	Research Experience:	06 Years	
Research Interest and Fields of Specialization				
1. Composite Materials 2. Manufacturing Technology 3. Inventory Control				
Honours & Awards				
Member of Academic Institutions				
1. Life member of Indian Society for Technical Education (ISTE), New Delhi. 2. Associate of The Institution of Engineers (India) (AIE), Kolkata. 3. Life member of Indian Institute of Industrial Engineering (IIIE), Mumbai.				
Administrative Experience				
1. Acted as a Hostel superintendent , at TIT&S, Bhiwani, Haryana from 1/08/2007 to 25/06/2012. 2. Acted as Anti Ragging Squad from 2009 to 2011 at TIT&S, Bhiwani, Haryana. 3. Acted as Member for preparing AICTE compliance report of institute for the approval of new course at TIT&S, Bhiwani, Haryana. 4. Acted as Member of Board of Studies of M. D. University, Rohtak , Haryana and H.N.B Garhwal University, Srinagar, Uttarakhand. 5. Working as Member of Board of Studies of mechanical Engg. Deptt for designing and modification of syllabus for B.Tech and community college of H.N.B Garhwal Central University, Srinagar, Uttarakhand. 6. Acting as Nodal officer of IT literacy from 11/09/2014 for Mechanical Engineering Department students, H.N.B.Garhwal. University, Srinagar, Uttarakhand. 7. Worked as a member of B.Tech. admission counseling committee. 8. Acting as member of departmental purchase committees of Mechanical Engineering Department for day to day department works. 9. Acting as member of expert for community college run under the department of Mechanical Engineering H.N.B.Garhwal University, Srinagar, Uttarakhand for purchase, taking lecture and day to day activities. 10. Worked as N.S.S Programme Officer from 11/04/2013 to 11/04/2016. 11. Acting as Head of Department from 26 th .Sept.2017.				
Conference/Symposium/Workshop Attended during last five years (2014-2020)				
(A) Paper Presented (National) :-				
1. Manoj Kumar Gupta and Pawan kumar Rakesh , presented paper in UGC Sponsored National Conference on GCRSTS-2016, paper title "Study of Industrial waste Reinforces Metal Matrix				

Composites" at TITS, Bhiwani, Haryana dated April 23-24, 2016.

(B) Participated (National):-

1. Attended National Workshop on "Recent Trend in Education System" dated Nov.29-30, 2014 at NIT, Uttarakhand.
2. Attended two days workshop on "Materials Characterization by SEM, TEM, XRD & EBSD" dated 27-28 Oct.2017 at G.B.I.E.T, Pauri Garwal, Uttarakhand.
3. National webinar on "Dr. Ambedkar: Constitutional Values, Social Justice and Education" dated 14 April, 2020 organised by HNB Garhwal University, Srinagar, Uttarakhand.
4. National webinar on "Research Thrust Areas in Composites" dated 20 May 2020 organised by Arasu Engineering College, Kumbakonam, Tamil Nadu.
5. National webinar on "Dimension and Degrees of Higher Education" dated 23 May 2020 organized by Bundelkhand University, Jhansi, U.P.

(C) Participated and presented (International):-

1. **Manoj Kumar Gupta and Pawan kumar Rakesh**, presented paper in PFAM-XIII paper title "Machinability Issues in Aluminum Matrix Composites" at IIT, Roorkee dated 4th to 5th Dec.2014.
2. **Manoj Gupta and Pawan Kumar Rakesh**, "Impact Strength of Surface Composites Developed by Friction Stir Process" *International Conference on ASCADM-2018*, NIT Patna, 4th- 6th June 2018.
3. **Manoj Kumar Gupta, Brijesh Gangil, Lalit Ranakoti, Pawan Kumar Rakesh, Vinay Kumar Patel**, "Effects of Tool Pin Profiles on Mechanical Properties of Al/TiB₂ Surface Composite Fabricated by Friction Stir Process" *Proceedings of International Conference on Innovative Engineering Design 2020* Jointly organized by NIT Uttarakhand & The Institution of Engineers, Uttarakhand State Centre (India) January 18-19, 2020.

INVITED TALK IN CONFERENCES

1. International conference AAC-2018 held on dated 21th.-23th.Oct, 2018, at H.N.B.G.U Srinagar, Garhwal, Uttarakhand.
2. Inspire Science Camp held on dated 20/01/2019 organized by H.N.B Garhwal University, Garhwal, Uttarakhand.

PARTICIPATED IN ORIENTATION & SHORT TERM TRAINING PROGRAMME

(A) Two or more than two week duration:

1. Three weeks Special Winter School on Value Education from 06-03-2017 to 25-03-2017 at H.P University, Shimla.
2. Eight weeks NPTEL online Certification course on "Introduction to Machining and Machining Fluids" dated Feb-Apr 2019.
3. Six weeks online Internship (Industrial Training) on CNC PROGRAMMING from 01.06.2020 to 18.07.2020 conducted by MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC), Ministry of Micro, Small & Medium Enterprises, Government of India Organization, Foundry Nagar, Agra-282 006 (U.P.).
4. Two weeks online FDP on "Experimental and Numerical Methods for Mechanical Engineers" held from August 17th -18th, 2020 conducted by GBPIET, Pauri Garhwal, Uttarakhand.

(B) One week duration:

1. One week AICTE sponsored short term training programme on "Engineering Materials and NDT" held from 22-08-2016 to 26-08-2016 at NITTTR, Chandigarh.
2. One week short term course on "OERHE" dated 4th to 9th Sept.2017 at H.N.B Garhwal University, Srinagar, Uttarakhand.
3. One week workshop on "Use and Development of Open Educational Resources" dated 12th to 18th Oct.2018 at H.N.B Garhwal University, Srinagar, Uttarakhand.
4. One week workshop on "Design Thinking for Innovative Products" dated 4th to 8th March 2019 at N.I.T Uttarakhand, Srinagar, Uttarakhand.
5. One week workshop on "Computational Techniques in Research Methodology for Sciences and Social Sciences" dated 25th to 31th July 2019 at H.N.B Garhwal University, Srinagar, Uttarakhand.

6. One week online STC on “Renewable Energy and Utilization” from May 26th -30th , 2020, conducted by Sandip Institute of Engineering and Management, Nashik.
7. One week online FDP on “Engineering Thermodynamics” dated July 20th -24th, 2020 conducted by AEC, Tamil Nadu.
8. One week online FDP on “Advancement in Mechanical and Automobile Engineering” from August 03rd -08th , 2020 conducted by AEC, Tamil Nadu.
9. One week online STC on “Recent Development in Mechanical System” from 07-11 Sept. 2020, GBIET, Pauri-Garhwal, Uttarakhand.

Publications during last five years (2014-2020)

Journals

1. **Manoj Kumar Gupta**, “Inventory Control Model: A Tool for Optimizing the Resources” IEJ, vol.7, Issue5, 2014, pp29-35.
2. **Manoj Kumar Gupta and** Pawan kumar Rakesh, "Effects of Reinforced Particulates on Properties of Aluminium Metal Matrix Composite: A Review Paper", published in Anusandhan, Vol. III, Issue VI, 2014, pp 558-566.
3. **Manoj Kumar Gupta**, “Turning of Aluminium Metal Matrix Composite” IEJ, vol.8, Issue1, 2015, pp24-29.
4. **Manoj Kumar Gupta**, Pawan Kr. Rakesh, Inderdeep Singh, “Application of Industrial Waste in Metal Matrix Composite” Journal of Polymer & Composites, Vol.4, Issue 3, 2016, pp2321–8525.
5. **Manoj Kumar Gupta**, “Controlling Factors in Aluminum Matrix Composites Fabrication", Anusandhan, Vol VII, Issue XIV, 2018, pp 141-151.
6. **Manoj Kumar Gupta and** Pawan Kumar Rakesh, “Characterization of pine needle ash particulates reinforced surface composite fabricated by friction stir process”, Mater. Res. Express 6(4), 2019, 046539, <https://doi.org/10.1088/2053-1591/aafaea>.
7. L Ranakoti, **MK Gupta**, PK Rakesh, “Analysis of mechanical and tribological behavior of wood flour filled glass fiber reinforced epoxy composite”, Materials Research Express 6 (8), 2019, 085327, <https://doi.org/10.1088/2053-1591/ab2375>.
8. **Manoj Kumar Gupta**, Lalit Ranakoti, Ankur Kumar, Rajesh, “Investigation of Mechanical and Water absorption Behavior of Wood Flour Filled Glass Fiber Reinforced Epoxy Composite”, Anusandhan, 9(17), 2019, pp94-105.
9. **Manoj Kumar Gupta**, Analysis of Tribological Behavior of Al/Gr/MoS₂ Surface Composite Fabricated by Friction Stir Process, Carbon Letters 30, 399–408 (2020). <https://doi.org/10.1007/s42823-019-00109-w>
10. **Gupta, M.K**, “Friction stir process: a green fabrication technique for surface composites—a review paper”, *SN Appl. Sci.* **2**, 532, 2020. <https://doi.org/10.1007/s42452-020-2330-2>
11. **Manoj Kumar Gupta**, “Effects of tool profile on mechanical properties of aluminium alloy Al 1120 friction stir welds”, Journal of Adhesion Science and Technology, 34(18), 2020. <https://doi.org/10.1080/01694243.2020.1749448>
12. **Manoj Kumar Gupta**, Brijesh Gangil, Lalit Ranakoti, “Mechanical and Tribological Characterization of Al/TiB₂ composites”, Industrial Engineering Journal, 13(4), 2020, pp 1-10.
13. **Manoj Kumar Gupta**, Characterization of Al-6063/TiB₂/Gr Hybrid Composite Fabricated by Stir Casting Process, Metal Powder Report, July 2020. <https://doi.org/10.1016/j.mprp.2020.06.063>
14. **Manoj Kumar Gupta**, “Effects of tool pin profile and feed rate on wear performance of pine leaf ash/Al composite prepared by friction stir processing”, Journal of Adhesion Science and Technology, 31 Jul 2020. <https://doi.org/10.1080/01694243.2020.1800290>
15. Abhas Manu and **Manoj Kumar Gupta**, “Application of nanomaterials in automobile industry”, Applied Innovative Research 2, 107-113, 2020.

Proceedings

1. **Manoj Kumar Gupta and** Pawan kumar Rakesh, in PFAM-XIII paper title “Machinability Issues in Aluminum Matrix Composites” at IIT, Roorkee dated 4th.to 5th.Dec.2014.
2. **Manoj Kumar Gupta and** Pawan kumar Rakesh, in UGC Sponsored National Conference on GCRSTS-2016, paper title “Study of Industrial waste Reinforces Metal Matrix Composites” at TITS, Bhiwani , Haryana dated April 23-24,2016.
3. **Manoj Gupta and** Pawan Kumar Rakesh, “Impact Strength of Surface Composites Developed

by Friction Stir Process" *International Conference on ASCADM-2018*, 4th - 6th June 2018.

4. **Manoj Kumar Gupta, Brijesh Gangil, Lalit Ranakoti, Pawan Kumar Rakesh, Vinay Kumar Patel**, "Effects of Tool Pin Profiles on Mechanical Properties of Al/TiB₂ Surface Composite Fabricated by Friction Stir Process" *Proceedings of International Conference on Innovative Engineering Design 2020* Jointly organized by NIT Uttarakhand & The Institution of Engineers, Uttarakhand State Centre (India) January 18-19, 2020.

Books

1. Lalit Ranakoti, **Manoj Kumar Gupta** and Pawan Kumar Rakesh, "Silk and Silk-Based Composites: Opportunities and Challenges", *Processing of Green Composites*, pp 91-106, Springer Link.2019.
2. **Manoj Kumar Gupta**, Lalit Ranakoti and Pawan Kumar Rakesh, *Effects of Reinforcement on Tribological Behaviour of Aluminium Matrix Composites*, *Automotive Tribology*, pp 131-143, Springer Nature, 2019.
3. Sandeep Kumar, Brijesh Gangil, Krishan Kant SinghMer, **Manoj Kumar Gupta**, and Vinay Kumar Patel, *Bast Fiber-Based Polymer Composites*, *Hybrid Fiber Composites: Materials, Manufacturing, Process Engineering*, pp147-167, John Wiley & Sons, 2020, ISBN3527824561, 9783527824564.

Total Number of Research Publications: 19