



**Centre/School/Special Centre**      **School Of  
studies in Engineering & Technology**

**Department**      **Mechanical**

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**Personal Webpage Link**

Mrs. Shweta Singh  
Assistant Professor

**Qualification**      PhD (Pursuing), Guru Ghasidas Vishwavidyalaya,  
ME (Manufacturing      System Engineering), BITS, Pilani

**Area of Interest/Specialization**      Composites, System Engineering

**Experience** 14 Years

**Awards and Honors**

**Research Projects**

**International Collaboration/Consultancy**

**Best Peer Reviewed Publication (up-to 10)**

1. Optimal synthesis of four-bar mechanism for function generation with five accuracy points, Inverse Problems in Science and Engineering, Volume 23, Issue 7, 2015 pages 1222-1236, Taylor & Francis, ISSN 1741-5977 (Print), 1741-5985 (Online)
2. Robotic Systems for Coal Mine Exploration and Associated Hazard Detection: A Review Journal of Mechatronics and Automation, ISSN: 2455-1988(online),
3. “Effect of Different Types of Stress Relieving Features on Spur Gears Tooth” - A Review International Journal of Emerging Technology & Research, ISSN(Online): 2347 - 5900 ISSN(Print): 2347 – 6079

4. Keshavkant , Shweta Singh “Effect of Different Types of Stress Relieving Features on Spur Gears”, International Journal of Emerging Technology & Research, ISSN(Online) : 2347 – 5900,ISSN(Print) : 2347 - 6079
5. Shweta Singh, Rajesh Kumar Bhushan,” Additive Manufacturing of Carbon Fiber Reinforced Composites for Medical Application: Issues and Challenges, International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Published by, www.ijert.org AMDMM - 2019 Conference Proceedings, Special Issue - 2019
6. Shubhra Vishwas, Shweta Singh , Dr. Pankaj Kumar Gupta, International Conference on Energy and Materials Technologies(online),ICEMT 21,August 2021,”Influence of stacking sequence and hybridization on the Tribological Properties of Jute/Carbon/Glass Epoxy Composite” 20-21 August 21, Scopus
7. Chandan,Shweta Singh,Dr. Anoop Kumar sahu, International Conference on Energy and Materials Technologies(online),ICEMT 21,August 2021,”Effect of Stacking Sequence and Orientation on Mechanical Properties of Carbon-Glass Kevlar fibre –reinforced Epoxy Based Hybrid Composite”, 20-21 August 21, Scopus
8. Shweta Singh,Dr. Pankaj Kumar Gupta, 4<sup>th</sup> International Conference on Advances in Mechanical Engineering (ICAME 2022), March 24-26, 2022,SRM Institute of Science and Technology, Chennai

### **Recent Books/Book Chapters/Monographs etc.**

### **Research Supervision**

1. Nikunj Velani,” composite Leaf spring”
2. Kumani Mehar, “Optimal Synthesis of Four bar Mechanism for Function Generation with Five Accuracy Points
3. Deep Kiran kanwar, “Stress reduction from spur gear tooth by introducing a novel stress relieving geometrical feature: a comparative study”
4. Keshav Kant,” Study and analysis of bonded/bolted hybrid composite joint”
5. CHANDAN, “Evaluation of Mechanical Properties of Carbon-Glass-Kevlar Fiber

## Reinforced Epoxy Based Hybrid Composite”

### **Administrative Responsibilities**

1. Co- Coordinator Technical Committee Women’s Day 2022
2. Worked as a warden from session 2013-14 to 2016-17
3. Cultural Coordinator (Departmental since 2019)
4. Students Mentors of the Department of Mechanical (2012)
5. Member of Anti ragging committee (2012)
6. Co-coordinator: Departmental Library (2012-13)
7. Member of Disciplinary Committee
8. Faculty In charge B.Tech 1st year
9. Served as “Students Advisor” in the Dept
10. Hostel Admission Committee (from 2013)
11. Organize Apollo Health awareness program for girls students & lady faculties (University level)
12. Organize awareness program (vidhik saksharta divas) for girls students (University level)
13. B.Tech first year Admission Committee (Form 2012 Registration Committee)
14. B.Tech first year Admission Committee (Form 2013-16 as a warden)
15. M.Tech first year Admission Committee (Form 2012-14 Registration)
16. Class In charge for B.Tech
17. Departmental NAAC details in charge (During 2013 Preparing SSR Department level)
18. Departmental NDRFdetails in charge (Department level)
19. Departmental AICTE details in charge (Department level)
20. Faculty Coordinator for EQUILIBRIO TECH FEST, Institute of Technology (different events) (2013-2016)

21. Faculty Coordinator for EQUILIBRIO TECH FEST (2013-2016), Institute of Technology, Hospitality Committee (2013-16)
22. Theory of Machine Lab In charge (2016-17)
23. In charge M. Tech Admission (2016-17)
24. Technical Committee (Furniture Purchase) (from 2016 -2019)
25. Member Scrutiny Committee-Student Council Election-From 2015 -2019)
26. Member M. Tech Admission committee for counseling
27. Convocation committee (from 2012 to 2022)
28. In charge NAD CELL RELATED WORK (2017-18)
29. Chairperson departmental NAAC committee (2018-19)
30. Mentor Teacher (2018-19)
31. In charge M. Tech Admission Process (Advertisement, Information, counseling etc) (2018-19)
32. In charge NAAC Related Work (2018-19)
33. In charge NIRF Related Work (2018-19)
34. In charge AICTE Related Work/Data (2018-19)
35. Member Convocation Committee
36. Member Admission committee (SoS E&T)
37. Member Admission committee (M. Tech, Machine Design)
38. Techfest Equilibrio – 2020 – Show Management Committee
39. Member Discipline cum Anti ragging committee (2018-19)
40. Member Games and sport committee (SoS E&T)

### **Additional Information**

### **Short Term Training Programs/Workshops/Seminars:**

1. 5days “short term course on “Mechatronics, MEMS and Micro –fabrication” from 07th-11th July 2014 held at Department of Mechanical Engineering, Indian Institute Of Technology, Indore
2. Computer Programming and GUI Development using MATLAB, IIIT Jabalpur, March 18 - 23, 2016
3. Faculty Empowerment Programme “Saksham”,UGC-Human Resource Development Centre (HRDC), GGV, Bilaspur, May 9- 14 , 2016, Microsoft
4. 16th Orientation Course held at UGC-Human Resource Development Centre (HRDC), GGV, Bilaspur, May 30-June 25,2016
5. “MOOCs TRAINING PROGRAM “IN COLLABRATIO OF UGC-HRDC, Guru Ghasidas Vishwavidyalaya, Bilaspur, 27-28 February 2017.
6. UGC sponsored refreshers course in “Recent Advances in Emerging Areas of Engineering, Technical Education & Research(Interdisciplinary)” Course held at UGC-Human Resource Development Centre (HRDC), GGV, Bilaspur,June 24, 2019- July 06 2019.
7. UGC sponsored refreshers course in “Advances in Engineering & Technology” Course held at UGC-Human Resource Development Centre (HRDC), GGV, Bilaspur,June 06 2017-June 24, 2017.
8. AICTE Training and Learning (ATAL) Academy Online FDP on "3D Printing & Design" from 2020-9-14 to 2020-9-18 at Bharati Vidyapeeth College of Engineering.
9. AICTE Training and Learning (ATAL) Academy Online FDP on "Robotics" from 11-06-2020 to 15-06-2020 at COLLEGE OF TECHNOLOGY AND ENGINEERING, UDAIPUR.
10. Two-week Professional Training Program on “Research Training”, MSME TECHNOLOGY DEVELOPMENT CENTRE(PPDC), Govt. of India Organization 22.02.21 -05.03.21
11. Digital Tools for writing, authoring & Reviewing Manuscripts, 12th to 23rd July 2021, jointly organized by EICT Academies- IITG, NITP, MNITJ, IIITDMJ, IITK & IITR., MNIT Jaipur (ONLINE),Endorsed by AICTE/UGC

12. One Day National Workshop on “Emerging Trend in the Research Areas and Opportunities in Science and Technology” Research & Development Committee, SOS (E&T), GGV, Bilaspur, (C.G), India, dated 31st July, 2021.
13. One Day National Workshop on “Microsoft Excel Involvement for Sustainable Industrial Practices”, Department of Mechanical Engineering, GGV, Bilaspur
14. One-week online FDP on “Writing Effective and Quality Research Papers, How to Publish in Scopus, SCI listed and reputed Journals,25/01/2022 to 29/01/2022, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur.
15. ATAL Academy Online Elementary FDP on "Advancement in Manufacturing Technology",17/01/2022 to 21/01/2022, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur
16. One day workshop on Multiple Entry/Exit for Professional Courses, Dec, 18 2021 GGVV Bilaspur C.G.
17. One Day National Workshop on “Microsoft Excel Involvement for Sustainable Industrial Practices”,25 Aug 2021, Guru Ghasidas Vishwavidyalaya Bilaspur
- 18.

### **Webinar**

1. “An overview of CFD and its application” conducted by department of Mechanical engineering, Karpagam Institute of Technology,8 August 2020.
2. Webinar on “Literature Search and Reference Management using Scopus and Mendeley”,17-01-2022, organized by department of Industrial & Production Engineering, GGV, Bilaspur (CG) on virtual mode

### **Event Organized**

1. 31st October’2021, National Unity Pledge taking Ceremony, (Co-ordinated by Mrs. Shweta Singh), National
2. One Day National Webinar on Samvaad – A career guidance session with alumni (Co-Ordinated by Mrs. Shweta Singh ) on 28-08-2021

