

Faculty Profile

Name of the Teaching Staff	Dr. Siddeshkumar N G	
Department	Mechanical Engineering	
E-mail	siddeshkumar.ng@cittumkur.org	
Present Designation	Associate Professor	
Google Scholar ID	https://scholar.google.co.in/scholar?hl=en&as_sdt=0%2C5&q=siddesh+kumar+n+g&btnG=	
ORCID	https://orcid.org/0000-0002-8212-1804	
VIDWAN ID	https://vidwan.inflibnet.ac.in/profile/92225	
Education Qualifications	<ol style="list-style-type: none"> UG – B E in Industrial Engineering & Management PG – Manufacturing Science & Engineering Ph.D – Faculty in Mechanical Engineering Science 	
Work Experience in Years		
Teaching	7.8 years	
Research	3.6 years	
Industry	-	
Other	-	
Total	11.4 years	
Area of Specialization	Manufacturing Science & Engineering & Nano Hybrid Metal Matrix Composites	
Publication Details	<p style="text-align: center;"><u>Journal Publications :</u></p> <ol style="list-style-type: none"> Giridhar S Kulkarni, NG Siddeshkumar, C Durga Prasad, Latha Shankar, R Suresh, Drilling of GFRP with Liquid Silicon Rubber Reinforced with fine Aluminium Powder on Hole Surface Quality and Tool Wear using DOE, Journal of Bio-and Tribo-Corrosion,9(3),2023, 53 (Springer) Impact Factor 3.12 (SCI imago). NG Siddeshkumar, R Suresh, L Shivaramu, GSS Shankar, Analysis of Cutting Forces and Surface Roughness in Machining Al2219, Unhybrid and Hybrid Metal Matrix Nano Composites using CCD Design of Experiment, Trends in Sciences, 19 (11), 2022, 4499-4499, Impact Factor 0.8 (Scopus). R Chitwadgi, B Siddesh, BL Shankar, R Suresh, N G Siddeshkumar, Optimization and analysis of dry sliding wear behaviour of n-B₄C/MOS₂ unreinforced AA2219 nano hybrid composites using response surface methodology, Metallurgical and Materials Engineering, 28 (3),2022, 469-485, Impact Factor 1.0 (SCI imago). R.Suresh, Joshi Ajith G, N.G. Siddeshkumar, Investigation on dry sliding wear behavior of AA5083/nano-Al₂O₃ metal matrix composites, <i>Revista de Metalurgia</i>, 58 (1),2022, e213ISSN-L: 0034-8570, DOI: https://doi.org/10.3989/revmetalm.213, Impact Factor 0.837 (SCI imago). Lokesh N, Sudheerreddy J, Siddeshkumar N.G & Kotgi Kotresh, 	

Characterization and evaluation of microstructure and mechanical properties of ZrO₂ reinforced Al6061 metal matrix composite using stir casting process, **Advances in Materials and Processing Technologies**, Volume 8, 2022 - Issue 4, 4306-4319, Taylor & Francis, **Impact Factor 4.73**.

6. **N.G. SiddeshKumar**, R. Suresh, G.S. Shiva Shankar, " High temperature wear behaviour of Al2219/n-B₄C/MoS₂ hybrid metal matrix composites", **Composites Communications (Elsevier)**, 19(2020)61-73, **Impact Factor 4.915 (SCI imago)**.

7. **Siddesh Kumar N G**, Sridhar S, Bhoomika S, Vinayaka Darshan V, Design and Development of Self Charging Electric Vehicle, **Studies in Indian Place Names** (UGC Care Journal), ISSN: 2394-3114, Vol-40-Issue-70-March -2020.

8. R. Suresh, L. Shivaramu, **N.G. Siddesh Kumar** and T.N. Srikantha Dath, " Effect of Process Parameters on Cutting Forces and Surface Roughness in Machining of DSS 2205 Using Taguchi's Approach", **Applied Mechanics and Materials**, ISSN: 1662-7482, Vol. 895, pp 26-31 (**Scopus Indexed**).

9. Giridhar S Kulkarni, G.S. Shivashankar, R Suresh, **N.G Siddeshkumar**, " Optimization of Drilling Parameters of GFRP with Liquid Silicon Rubber and reinforced with fine Aluminium Powder by Taguchi Approach on Hole Quality", **Silicon (Springer)**, 10.1007/s12633-019-00260-z, 2020, **Impact Factor 1.499 (SCI imago)**.

10. **N.G. Siddesh Kumar**, T. Ram Prabhu, R.K. Mishra, N. Eswaraprasad, G.S. Shiva Shankar, S. Basavarajappa, "Analysis of dry sliding wear behavior of the nano composites using statistical methods with an emphasis on temperature effects", **Measurement (Elsevier)**, 128 (2018) 362–376, **Impact Factor- 3.364, (SCI Index)**.

11. **N.G. Siddesh Kumar**, G.S. ShivaShankar, S. Basavarajappa, R. Suresh, "Some Studies on Mechanical and Machining Characteristics of Al2219/n-B₄ C/MoS₂ Nano-Hybrid Metal Matrix Composites", **Measurement** 107 (2017) 1–11, (**Elsevier**) **Impact Factor- 3.364 (SCI Index)**.

12. **Siddesh Kumar N G**, Ram Prabhu T, Shiva Shankar G S, Basavarajappa S (2016) "Dry sliding wear properties of un hybrid and hybrid Al alloy based nano composites", **Tribology Materials, Surfaces & Interfaces (Taylor and Francis)** DOI:10.1080/ 17515831.1247132, **Impact Factor-0.76 (SCI imago)**.

13. **N.G. Siddesh Kumar**, G.S. Shiva Shankar, S. Basavarajappa, "A study on dry sliding wear behaviour of hybrid metal matrix composites at room temperature", **Applied Mechanics and Materials**, Vols 766-767 (2015), pp 219-228, **Trans Tech Publications, Switzerland (Scopus Indexed)**.

14. **N.G.Siddesh Kumar**, G.S.Shiva Shankar, S.Basavarajappa, "Synthesis of Metal Matrix Hybrid Composites and Evaluation of Mechanical and Tribological properties", **Applied Mechanics and Materials**, Vols. 813-814 (2015),pp 121-126 Submitted: 2015-04-22,(2015) Trans Tech Publications, Switzerland (**Scopus Indexed**).

15. **N G Siddesh Kumar**, G S Shiva Shankar, S Basavarajappa and R Suresh, "Wear Behaviour of Hybrid Metal Matrix Composites at High Temperature", **Journal of Manufacturing Technology Research**, Volume 9 Issue 3-4, 2017, 151-167.

16. **N. G. Siddesh Kumar**, V.M. Ravindranath, G. S Shiva Shankar, "Mechanical and wear behaviour of aluminium metal matrix hybrid composites", **Elsevier, Procedia Material Science** 5 (2014) 908 – 917.

17. **N G Siddesh Kumar**, G S Shiva Shankar, M, N, Ganesh & L K Vibudha, "Experimental Investigations to Study the Cutting Force and Surface Roughness during Turning of Aluminium Metal Matrix Hybrid Composites", **Materials today: Proceeding**, Volume 4, Issue 9, 2017, Pages 9371-9374.

18. G.S. Shiva Shankar, **N. G. Siddesh Kumar**, V. M. Ravindranath, B. M. Amith, "Comparative study on wear behaviour of aluminium metal matrix hybrid composites at room and high temperature", **MC Graw Hill Education** (2015), **Advanced Materials and Manufacturing**

	<p>Technology, pp 85-93, (Scopus Indexed).</p> <p>19. V.M. Ravindranath, M. Yerriswamy, S. V.Vivek, G.S. ShivaShankar, N.G.Siddesh Kumar, "Drilling of Al2219/B₄C /Gr metal matrix hybrid composites", Materials today: Proceeding, Volume 4, Issue 9, 2017, Pages 9898-9901.</p> <p>20. Ravindranath V M, G.S. Shiva Shankar, Anup Hanji & Siddeshkumar N G, "Degradation of Hybrid Metal Matrix Composites Reinforced with Boron Carbide and Graphite Particles due to Pit Corrosion", Applied Mechanics and Materials, Vols. 813-814 (2015) pp 19-24 (Scopus Indexed).</p> <p>21. Siddesh kumar N G , G S Shiva Shankar , S.Basavarajappa, "Comparative Study on Dry Sliding Wear Behaviour of Metal Matrix Hybrid Composites at Room and High Temperature Conditions", International Journal of Engineering Research & Advanced Technology (ijerat), Vol.01 Issue.01 June 2015.</p> <p>22. Santhosh T U, Siddesh Kumar N G, "Effect of Quenching and Ageing Duration on Mechanical Property of Metal Matrix Composite: A Taguchi Technique", International Journal of Engineering Research & Advanced Technology (ijerat), Vol.01 Issue.01 June 2015.</p> <p>23. Santhosh T U, Siddesh Kumar N G, "Tribological Behavior of Metal Matrix Composite Material", International journal of Advances in Scientific Research and Engineering (ijasre), Volume.1 Issue.1 July 2015.</p> <p>24. Santhosh T U, Dr. Hemanth Kumar T R, Dr. Siddesh Kumar N G , Sridhar H S, "Evaluation of Tribological Properties of Al 6061 Reinforced With B₄C Particulate composites", International Journal of Innovative Research in Science, Engineering and Technology,7(7)2018.</p> <p>25. V.M.Ravindranath, G.S.Shiva Shankar, S. Basavarajappa, N.G,Siddesh Kumar, "Dry sliding Wear Behavior of Hybrid aluminum Metal Matrix composite reinforced with Boron carbide and graphite particles", Materials today: Proceeding, Vol 4, Issue 10, 2017, 11163-11167.</p> <p>26. Giridhar S. Kulkarni, G. S. Shivashankar, R. Suresh, and N. G. Siddeshkumar, "Dry sliding wear behaviour of GFRP with liquid silicon rubber and reinforced with fine aluminium powder/silica powder by taguchi approach", AIP Conference Proceedings 2057, 020056 (2019) (Scopus Indexed).</p> <p>27. Siddesh Kumar N G, Ravindranath V M, G S Shiva Shankar, "Dry Sliding Wear Behavior of Hybrid Metal Matrix Composites", International Journal of Research in Engineering and Technology, Vol.03 Issue: 03,554-558.</p>
	<p style="text-align: center;"><u>International Conference Attended:</u></p> <p>1. Siddesh Kumar N G, Sridhar S, Bhoomika S, Vinayaka Darshan V, "Design and Development of Self Charging Electric Vehicle", 2nd International Conference on Topical Transcends in Science, Technology & Management (ICTTSTM2020) in Association with Institute of Scholars, Sai Vidya Institute of Technology (SVIT) Bangalore-560064, Karnataka, India on 12th July 2020.</p> <p>2. Hari Kiran M P, Jayaprakash R H, Rohith M S, Siddeshkumar N G, "Study on dry sliding wear behavior of B₄C, Graphite Flakes reinforced Al2017 HMMCs using Taguchi method", International Conference on Smart and Sustainable developments in Materials, Manufacturing and Energy (SME 19) held at .M.A.M.I.T-Nitte – 574 110, Karkala Taluk, Udupi District, Karnataka , India on 23rd and 24th May 2019.</p> <p>3. Giridhar S Kulkarni, G S Shiva Shankar, R Suresh, Siddeshkumar N G, "Dry sliding wear behaviour of GFRP with liquid silicon rubber and reinforced with fine aluminium powder/silica powder by taguchi approach", International Conference on Polymer Composites ICPC 2018 held at NITK, Surathkal, Karnataka, India on 15th to 16th Dec 2018.</p> <p>4. R Suresh, L Shivaramu, N G Siddeshkumar, T N Srikantha Dath, Effect of Process Parameters on Cutting Force and Surface Roughness in</p>

<p>Machining of DSS 2205 using Taghuchi' Approach", International Conference on Green Trends in Mechanical Engineering Science (GTNES-2018) held at Malnad College of Engineering, Hassan, Karnataka, India on 3rd to 5th Oct 2018.</p>
<p>5. G S Shiva Shankar, Siddesh kumar N G, Ravindranath V M, Amith B M, "Comparative Study on Wear Behaviour of Aluminium Metal Matrix Hybrid Composites at Room and High Temperature", International Conference on Materials and Manufacturing Technology (ICMMT – 2015) at ViJaya Vittala Institute of Technology, Bangalore, India held on 3rd and 4th December 2015.</p>
<p>6. N.G. Siddesh kumar, G.S. Shiva Shankar, S. Basavarajappa, "Synthesis of Metal Matrix Hybrid Composites and Evaluation of Mechanical and Tribological properties", International Conference on Mechanical and Manufacturing Engineering (ICMME-2014) at Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamilnad, India held on 2nd-3rd April 2015. (Stud Best paper presentation award during conference).</p>
<p>7. N.G.Siddesh kumar, G.S.Shiva Shankar, S.Basavarajappa, "A Study on Dry Sliding Wear Behaviour of Hybrid Metal Matrix Composites at Room Temperature", International Conference on Advances in Materials and Manufacturing Engineering (ICAMME-2014) at Sri Sai Ram Institute of Technology, Chennai, Tamilnadu, India held on 19th & 20th Dec 2014.</p>
<p>8. G S Shiva Shankar, Siddesh Kumar N G, Veerendra T R, Shashi Kumar G S, "Study of Dry Sliding Wear Behaviour of Metal Matrix Hybrid Composites", International Mechanical Engineering Congress (IMEC 14) at NIT, Tiruchirappalli, Tamilnadu, India held on 13th to 15th Jun 2014.</p>
<p>9. Siddesh Kumar N G, Ravindranath V M, G S Shiva Shankar, "Mechanical & Wear Behaviour of Aluminium Metal Matrix Hybrid Composites", International Conference on Advances in Manufacturing and Materials Engineering (ICAMME) at NITK, Surathkal, Karnataka, India held on 27th to 29th Mar 2014.</p>
<p>10. Siddesh Kumar N G, G S Shiva Shankar, S Basavarajappa, "Investigation on Tribological Characterization of Stir Cast Hybrid Metal Matrix Composites", International Conference on Advances in Tribological (ICAT14) at NIT ,Calicut, Kerala, India held on 21st to 24th Feb 2014.</p>
<p>11. Siddesh Kumar N G, G S Shiva Shankar, S Basavarajappa, "Mechanical Properties of Aluminium alloy Reinforced with Boron Carbide and Molybdenum Disulfide Metal Matrix Hybrid Composites", International Conference on Advanced Materials, Manufacturing, Management & Thermal Sciences (AMMMT-2013) at Siddaganga Institute of Technology, Tumkur, Karnataka, India held on 3rd and 4th May 2013.</p>
<p>12. Siddesh Kumar N G, S Basavarajappa, Ravindranath, G S Shiva Shankar. "Tribological Characterization of Stir Cast Hybrid Metal Matrix Composites" International Conference on Advanced Materials, Manufacturing, Management & Thermal Sciences (AMMMT-2013) at Siddaganga Institute of Technology, Tumkur, Karnataka, India held on 3rd and 4th May 2013.</p>

	<p style="text-align: center;"><u>National Conference Attended:</u></p> <p>1. SiddeshKumar N G, G S Shiva Shankar, "Tribological Characterization of Stir-Cast Hybrid Metal Matrix Composites for Heavy Duty and High Temperature Application". National Conference on Recent Trends in Mechanical Engineering held at Shridevi Institute of Engineering & Technology, Tumkur, Karnataka, India</p> <p>2. N. G. Siddesh Kumar, V. M Ravindranath, G.S. Shiva Shankar, "Dry sliding wear behaviour of hybrid metal matrix composites", National Conference on Recent Innovations in Engineering & Technology held at Bheemanna Khandre Institute of Technology, Bhalki, Karnataka, India on 3rd May 2014 to 4th May 2014.</p> <p>3. Santhosh T U, Dr. Hemanth Kumar T R, Dr. Siddesh Kumar N G , Sridhar H S, "Evaluation of Tribological Properties of Al 6061 Reinforced With B₄C Particulate composites", One Day National Conference on "Recent Trends in Mechanical Engineering & Applied Sciences 2018"(RTME & AS-2018), Department of Mechanical Engineering and Applied Science held at Sri Krishna Institute of Technology, Bangalore, India.</p> <p>4. Mohan N, Raghavendra T A, Siddeshkumar N G, "Analyses of pressure die casting for cylinder head component using ESI Procast", Two Days National Conference on Recent Advances in Engineering, Technology and Science - 2K19 (NCRAETS - 2K19) held at held at Shridevi Institute of Engineering & Technology, Tumkur, Karnataka, India on 26th to 27th April 2019.</p>
Professional Memberships	<ol style="list-style-type: none"> 1. Associate Member in the Institution of Engineers (AMIE) 2. Teaching and Education Research Association (TERA) 3. Scientific and Technical Research Association (STRA) 4. International Association of Engineers (IA ENG) 5. Technical Institute for Engineers (TIE)
No. of Books published with details	-
Book Chapters published	-
Books Published	-
Reviewer in Journal/ Conference	<p>Reviewer</p> <ol style="list-style-type: none"> 1. Transactions of Nonferrous Metals Society of China, Impact Factor: 1.795, SCImago Journal, Elsevier science direct. 2. Journal of Engineering & Management (JJEM). <p>Editorial Board</p> <ol style="list-style-type: none"> 1. American Journal of Mechanical and Materials Engineering.
Patents	<ol style="list-style-type: none"> 1. Patent titled "Automatic Body Temperature Read System" filed with Application No. 202041048515 in Intellectual Property India, Patent Office, Intellectual Property Building, G.S.T Road, Guindy, Chennai-600032 on 6.11.2020.
Academic & Administrative Responsibilities	<ol style="list-style-type: none"> 1. Dept. Research Centre Head 2. Dept. NIRF & ARIIA Coordinator 3. Dept. NAAC & NBA Coordinator 4. NCS (National Carrier Service) Nodal Centre Coordinator

	<ol style="list-style-type: none"> 5. Virtual Lab Coordinator 6. IIIC (Industry Institute Interaction Cell) member 7. Research Consultancy & Funding 8. Coordinator for Co-Curricular Activities 9. Support for Interaction with external funding agencies 10. Peer learning Session Coordinator
FDPs & Workshops Attended	<p style="text-align: center;"><u>FDP's Attended</u></p> <ol style="list-style-type: none"> 1. One Week Faculty Development Program On "Emerging Areas on Manufacturing" organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Kannur-670632, Kerala, India during 25th May to 30th May 2020. 2. One Week Faculty Development Program on "Additive Manufacturing - The Research Scopes & Future Trends" organized by Santhiram Engineering College, Nandyal, Andhra Pradesh, India during 22th May to 28th May 2020. 3. Online Faculty Development Program on "Future Automotive Industry and Challenges" organized by Department of Mechanical Engineering, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai - 600062, Tamil Nadu, India on 27th May 2020. 4. One Week online Faculty Development Programme on "Modelling and Optimization Techniques for Materials and Manufacturing Processes" organized by Lakireddy Bali Reddy College of Engineering (Autonomous), Mylavaram during 18th May to 22th May 2020. 5. One Week Faculty Development Program Faculty Development Programme on "Novel Materials and Its Industrial Applications" organized by Department of Mechanical Engineering & COE for Composite Research Karpagam College of Engineering, Coimbatore, Tamilnadu during 13th May to 18th May 2020. <p style="text-align: center;"><u>Workshop Attended</u></p> <ol style="list-style-type: none"> 1. Two days National Level Workshop on "Differential Equations (DEs) for Engineers" held at Channabasaveshwara Institute of Technology, B H Road, Gubbi, Tumkur during 28th & 28th April 2023. 2. Work shop on "Rapid Prototyping and Manufacturing Technologies" held at Siddaganga Institute of Technology, Tumkur during 5th December 2011. 3. One week workshop on "Six Sigma Black Belt" Conducted by Department of Industrial Engineering & Management, Siddaganga Institute of Technology, Tumkur, Karnataka, India during 22nd to 27th July 2013. 4. One week workshop on "Industrial Tribology" Organized by Department of Mechanical Engineering, Siddaganga Institute of Technology, Tumkur, Karnataka, India during 20th to 24th Aug 2013. 5. One week Faculty Development Program on "Theoretical, Computational and Applied Mechanics" Organized by Department of Mechanical Engineering, BMS College of Engineering, Bangalore, Karnataka, India during 16th to 20th Jun 2014. 6. Three day workshop on "Research Methodologies and LATEX" Organized by VTU e-Learning center, Mysore at VTU Regional Office, Bangalore, Karnataka, India during 21th to 23rd May 2015. 7. One Day Work Shop on "New Model Education for First Year BE/B.Tech-CBCS Detailed Syllabus (2018-19) as per Outcome Based Education (OBE) Format Including Course Outcome (CO) and Blooms Taxonomy", organized by VTU at, BNMIT, Bangalore, Karnataka, India During 9th May 2018. 8. Online Workshop on "Awareness on Industry Safety during COVID 19" organized by Department of Mechanical Engineering, S.A. Engineering College is an engineering college in Veeraraghavapuram near Thiruverkadu, Chennai, Tamil Nadu- 600077 on 23rd May 2020.

	<p>9. 2nd International workshop, "Biomedical Application in Translational Research (BATR-2020)" organized by Department of Biomedical Sciences, Alagappa University, Karaikudi during 18th and 19th May 2020.</p> <p>10. 2 day online workshop on "Additive Manufacturing" organized by Department of Mechanical Engineering, S.A. Engineering College is an engineering college in Veeraraghavapuram near Thiruverkadu, Chennai-600077 during 18th and 19th May 2020.</p> <p>11. One day online workshop on "Research Scope in Composite Material" organized by Chennai Institute of Technology, SH-113, Sarathy Nagar, Pudupedu village Kundrathur sriperumbudur, Main Rd, Kundrathur, Chennai, Tamil Nadu 600069 on 14th May 2020.</p> <p>12. One day online workshop on "Research Scope in Mechanical Science" organized by Chennai Institute of Technology, SH-113, Sarathy Nagar, Pudupedu village Kundrathur sriperumbudur, Main Rd, Kundrathur, Chennai, Tamil Nadu 600069 on 07th May 2020.</p> <p>13. Two days online workshop on "Fuzzy Logic and Neural Network Approaches for Engineering Solutions" organized by Journal of Advanced Research and powered by Hexacube India during 29th and 30th April 2020.</p> <p>14. Online workshop on "Design of Experiments: An Engineering Perspective" organized by Journal of Advanced Research and powered by Hexacube India 22th and 24th April 2020.</p>
Awards & Achievements Received	<p>Best Oral Presentation</p> <p>Research paper entitled "Synthesis of Metal Matrix Hybrid Composites and Evaluation of Mechanical and Tribological properties" by N.G. Siddeshkumar, G.S. Shiva Shankar, S. Basavarajappa, has received prize for the best oral presentation in International Conference on Mechanical and Manufacturing Engineering (ICMME-2014) held during 2nd -3rd, April-2015 at Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamilnad, India.</p>
Ph.D Research Scholar Details	Guided /Awarded
	Candidate Name : Nil
	USN :
	Title :
	Year of Award :
	Ongoing
	Candidate Name : Nil
	USN :
Title :	
Year of Registration :	
Research/Sponsored Projects Funds Received & Projects Completed	Name of the Project : Nil
	Funds Received :
	Sponsoring Agency :
	Sanctioned Year :
	Current status of the Project (Completed/Ongoing) :
Student Funded Projects Guided	Sponsoring Agency; KSCST
	Funds Received : 8000/-
	Title of the Project: Milling of Duplex Stainless Steel
	Sanctioned Year : 2017-18
	Sponsoring Agency: KSCST
	Funds Received : 5,500/-

	Title of the Project: Hard facing of alloy steel using satellite material (Ti-Cr Alloy) to enhance wear resistance for automobile applications
	Sanctioned Year : 2019-20
	Sponsoring Agency: KSCST
	Funds Received : 4,500 /-
	Title of the Project: Study on wire cut electro discharge machining for H13 steel material using DOE
Sanctioned Year : 2019-20	
Any other accomplishments	--

