

**St.Joseph's College of Engineering – Chennai 600119**  
**Department of Mechanical Engineering**  
**Faculty Information Sheet**

Staff Name	: Mr.M.GANESH
Faculty ID	: TME52
Designation	: Assistant Professor
Qualification	: M.Tech,(Ph.D.,)
E- Mail ID	: <a href="mailto:ganesmech@gmail.com">ganesmech@gmail.com</a> , ganeshm@stjosephs.ac.in
Total Experience (Years)	: 13 Years
Teaching Experience (Years)	: 13 Years
Industrial Experience(Years)	: Nil
Area of specialization	: CAD/CAM Manufacturing Cryogenics Optimization
Subjects handled in UG	: Engineering Metrology and Measurements Robotics Design of Transmission Systems Finite Element Analysis Engineering Graphics Computer Integrated Manufacturing Engineering Economics Basic Civil and Mechanical Engineering
Subjects handled in PG	: Polymers and Composites
Department Responsibilities Held	: Assistant File Incharge ,Department IQAC Coordinator, SAE Faculty Advisor

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Journals  
published

:

1. **M.Ganesh**, Arunkumar, N (2024), A sustainable approach in deep hole drilling of Ti6Al4V: Effect of cryogenic cooling on hole parameters and its evaluation, Journal of Manufacturing Processes, 121, pp.343-360, <https://doi.org/10.1016/j.jmapro.2024.05.048> (**Impact factor:6.2**)
2. GML Leo, R Jayabal, D Srinivasan, MC Das, **M Ganesh**(2024), T Gavaskar Predicting the performance and emissions of an HCCI-DI engine powered by waste cooking oil biodiesel with Al<sub>2</sub>O<sub>3</sub> and FeCl<sub>3</sub> nano additives and gasoline injection–A random forest ,Fuel 357, 129914. (**Impact factor:7.4**)
3. GSN Rathinam, **Ganesh Manickajothi**, EDV Ezhil, M Sundaram, Y Devarajan,(2024)“Testing and evaluation on friction surfacing of Alloy 36 over spheroidal graphite iron and its effect on coating thickness and width using artificial neural networks and response surface methodology” Materialwiss. Werkstofftech 55 (02), 141-152.
4. Srinivasan, D., Senthilkumar, N., **Ganesh, M.** et al.(2024) Characterization studies on nano aluminium composite reinforced with montmorillonite nanoclay and titanium carbide. Multiscale and Multidiscip. Model. Exp. and Des. (2024). <https://doi.org/10.1007/s41939-024-00374-x>
5. Arun Kumar N E, **Ganesh .M** , Suresh babu A,Elakkiyadasn R(2023), Effect of Cryo-treatment of wires on machining performance of WEDM, Materials and Manufacturing processes, DOI: <https://doi.org/10.1080/10426914.2023.2217897>( **Impact Factor:4.616**)
6. Ganesh M, **Arunkumar N.**,N E Arunkumar,R Sathish(2023), Investigation of surface grinding on Inconel under distinct cooling conditions, Materials and Manufacturing Processes, DOI: <https://doi.org/10.1080/10426914.2023.2217896>( **Impact Factor:4.616**)
7. Nimel Sworna Ross, **M Ganesh**, M Belsam Jeba Ananth, M Kumar, Ritu Rai, Munish Kumar Gupta, Mehmet Erdi Korkmaz(2023), Development and potential use of MWCNT suspended in vegetable oil as a cutting fluid in machining of Monel 400, Journal of Molecular Liquids, <https://doi.org/10.1016/j.molliq.2023.121853> ( **Impact Factor:6.633**)
8. Arunkumar, N., **Ganesh, M.**, Rajaram, M, Saravana Kumar.E(2023), Deep hole drilling of AISI 1045: effect on hole quality & tool wear under flood, emulsion, and mist cooling technique. J Braz. Soc. Mech. Sci. Eng. 45, 195 (2023). <https://doi.org/10.1007/s40430-023-04123-y>( **Impact Factor:2.34**)
9. NS Ross, **M Ganesh**, D Srinivasan, MK Gupta, ME Korkmaz, JB Krolczyk (2022), Role of Sustainable Cooling/Lubrication Conditions in Improving the Tribological And Machining Characteristics of Monel-400 Alloy, *Tribology International*, 107880, DoI: <https://doi.org/10.1016/j.triboint.2022.107880>
10. **Ganesh M** ,Arunkumar N (2022), Effect of cryogenic cooling in deep hole

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drilling process – a stride in the direction of green manufacturing, *Materials and Manufacturing Processes*, <https://doi.org/10.1080/10426914.2022.2030878>

11. **M Ganesh**, Arunkumar N, K.Elavarasan, R.Sathish(2022), Experimental Investigation of Friction and Wear Behavior of AL7075-TiO<sub>2</sub>-B<sub>4</sub>C using RSM, ANN and Desirability Function  
*International Journal of Vehicle Structures and Systems* 14 (1)
12. Balasubramanian T, **Ganesh M**, Subramanian M, Arunkumar N(2021)  
Experimental studies on the wear and mechanical properties of Al7075-B<sub>4</sub>C-Al<sub>2</sub>O<sub>3</sub> composite, *IOP Conf. Series: Materials Science and Engineering*
13. S Kumar, Nimel Sworna Ross N, **Ganesh M(2020)**, Multi-response optimization of Ti-6Al-4V milling using AlCrN/TiAlN coated tool under cryogenic cooling, *Journal of Production Systems and Manufacturing Science* 1 (1), 29-41.
14. N.E.Arunkumar, R.Sathish, **Ganesh M(2020)**, Parametric Optimization of Wire cut EDM using Grey Relational Analysis, *GEDRAG & ORGANISATIE REVIEW* - ISSN:0921-5077.
15. N.E.Arunkumar, **Ganesh M**, Naren Vivekanandhan(2020), Optimization of machining parameters in WEDM of Monel using Taguchi Technique, *Materials today: Proceedings* 22 (4), 2199-2206
16. Nimel K Sworna Ross, **Ganesh.M(2019)**, Performance Analysis of Machining Ti-6Al-4V Under Cryogenic CO<sub>2</sub> Using PVD-TiN Coated Tool, *Journal of Failure Analysis and Prevention*, ISSN 1547-7029 Volume 19 Number 3J Fail. Anal. and Preven. (2019), 19:821-831, DOI: [10.1007/s11668-019-00667-1](https://doi.org/10.1007/s11668-019-00667-1).
17. **Ganesh.M**, Nimel Sworna ross, Prakash T, Pradeep B(2019), Experimental Investigation of Inconel 718 Using Cryogenic Coolant under Varied Nozzle Angle, *Proceedings of International Conference on Recent Trends in Computing, Communication & Networking Technologies (ICRTCCNT)* 2019.
18. **M.Ganesh**, D. Srinivasan, Naren Vivekanandan(2018), Experimental Investigation on Mechanical and Wear Properties of Al7075-B<sub>4</sub>C-TiO<sub>2</sub> Composite, *Nano Hybrids and Composites*, Vol. 23, pp 17-23, DOI:10.4028/www.scientific.net/NHC.23.17, ISSN: 2297-3400.
19. D. Srinivasan, R.S. Kadadeveramath, S. Rajendran, **Ganesh M(2017)**. State-of-Art Review of Ceramic Reinforced Aluminum Metal Matrix Composite and it's Machining Characteristics, *Journal of Chemical and Pharmaceutical*

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		<p><i>Sciences</i>, ISSN: 0974-2115.</p> <p>20. K.Elavarasan,D.Gopinath,T.Rajendiran,T.G.Sakthivel,<b>M.Ganesh(2022)</b> Design and Analysis of Automotive Bumper Beam Using Polymer Matrix Composite, <i>Middle-East Journal of Scientific Research</i> 24 (S1): 415-418, 2016 ISSN 1990-9233 IDOSI Publications, 2016 DOI: 10.5829/idosi.mejsr.2016.24.S1.1</p>
Book Chapters Published		1. R Shanmugam, M Ramoni, NS Ross, <b>M Ganesh(2022)</b> Machining Performance of Inconel 718 under Nano-MQL Strategy Using PVD TiAlN/TiN-Coated Cutter, <i>Nanomaterials in Manufacturing Processes</i> , 31-52,Taylor and Francis Group.
International Conference Attended	:	<ul style="list-style-type: none"> <li>• Optimization of machining parameters in WEDM of Monel using Taguchi Technique,Held at VIT university on 29-31 March 2019.</li> <li>• Experimental Investigation of Inconel 718 Using Cryogenic Coolant under Varied Nozzle Angle,Ganesh.M,Nimel Sworna ross,Prakash T,Pradeep B, Proceedings of International Conference on Recent Trends in Computing, Communication &amp; Networking Technologies (ICRTCCNT) 2019.</li> </ul>
National Conference Attended	:	<ul style="list-style-type: none"> <li>• Attended national conference "NCAME 2011" and presented a paper entitled Comparison Of Stresses In Connecting Rod For Different Materials Using FEM on 23 rd March 2011</li> </ul>
Faculty Development Programme Attended/ Workshops Attended	:	<ul style="list-style-type: none"> <li>• Attended Faculty development Programme on "Engineering Mechanics"Sponsored by Anna University, Chennai, conducted at St.Joseph's College of Engineering, Chennai during Dec 9 - 16, 2013.</li> <li>• Attended Faculty development Programme on "Strength of materials"Sponsored by Anna University, Chennai,conducted at St.Joseph's College of Engineering, Chennai during June 10 -17, 2014.</li> <li>• Fourteen days FDP on IoT and ADVANCED TECHNOLOGIES in MANUFACTURING held at Panimalar Engineering College, 11 th -23 rd Novemeber 2019.</li> <li>• Participated in the one day National Workshop on “Recent Research Trends in Mechanical Engineering” organized by the Department of Mechanical Engineering, SSN College of Engineering</li> </ul>
NPTEL Courses Attended	:	<p>Manufacturing of Composites -<b>Elite + Silver (FDP).</b></p> <p>Laser based Manufacturing- <b>Elite + Silver (FDP).</b></p> <p>Introduction to Machining and Machining- <b>Elite + Silver (FDP).</b></p>

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Professional Membership	: SAE
Patent details	<p>1. Mr. S. Praveenkumar, Mr. K. Parthasarathy, Mr. G. Prabakaran, Dr. S. Baskar, Mr. D. Harish, Dr. S. Ramachandran, Mr. T. Balasubramanian, Mr. <b>M. Ganesh</b>, <b>NOVEL X ELECTRODE FLOW CHANNEL TO IMPROVE THE PERFORMANCE OF PEMFC</b>, Indian patent  Filed Date: 16/02/2022, Published Date: 25/02/2022</p> <p>2. <b>Mr. M. Ganesh et. al "Natural Fiber based Composite Material Production process"</b></p> <p style="text-align: center;">Indian Patent  Year of application : 2023  Application Number: 202341004415  Published in official Journal of the Patent office Dated 23/01/2023</p> <p>3. <b>Mr. M. Ganesh et. al , " AN APPARATUS FOR OBTAINING DISPERSED CARBON NANOTUBES USING LIQUID NITROGEN TREATMENT "</b></p> <p style="text-align: center;">Indian Patent  Year of application : 2023  Application Number: 202341052677A  Published in official Journal of the Patent office Dated 23/01/2023</p>

No. of UG Projects Guided	: 20
Google scholar:	: <a href="https://scholar.google.com/citations?hl=en&amp;user=wE0bnAEAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=wE0bnAEAAAAJ</a>
Publon ID	: <a href="https://publons.com/researcher/ABC-9485-2020/">https://publons.com/researcher/ABC-9485-2020/</a>
Research Gate	: <a href="https://www.researchgate.net/profile/M-Ganesh">https://www.researchgate.net/profile/M-Ganesh</a>
Orcid ID	: <a href="https://orcid.org/0000-0003-4517-1906">https://orcid.org/0000-0003-4517-1906</a>
Scopus ID	: <a href="https://www.scopus.com/authid/detail.uri?authorId=57196151168">https://www.scopus.com/authid/detail.uri?authorId=57196151168</a>