SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.

Department of Mechanical Engineering

Name	***S. PARAMASAMY***			
Date of Birth	08.07.1972			
Unique ID	*1-422451317*			
Educational Qualifications	*M.E. Production Engineering*			
Designation	Associate Professor			
Email ID	sparamasamy@sethu.ac.in			
Alternate Email ID	paramasamyshanmugam@gmail.com			
Experience	Industry	Teaching	Others	Total
	7 Years	20 Years	-	27 Years
Date of Joining the Institution	18.06.2008			
Area of Specialization	***Production and Composite Materials***			
Courses taught	Manufacturing Technology, Industry 4.0, Process Planning and Cost Estimation, Jigs and Fixtures, Power Plant engineering, CIM, Metrology and measurements.			
Research Focus	Materials			
Subject Competency	Manufacturing Technology			
No. of papers published	National Journals	International Journals	Conferences	
		11	***6***	
PG Specialization	Production Engineering			
Ph.D. Specialization	Polymer Composite materials			
Projects Carried out	***1***			
Patents (Filed & Granted)	***2***			

Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Mechanical Engineering	Madurai Kamarajar University	1994
PG	M.E	Production Engineering	Anna University	2008
Ph.D.	Ph.D.	Composite Materials	Rajiv Gandhi university	Registered

Details of Journal Publication: 11

1. Venkatram, B., Kailasanathan, C., Seenikannan, P., & **Paramasamy, S**. (2016). Study on the evaluation of mechanical and thermal properties of natural sisal fiber/general polymer composites reinforced with nanoclay. International Journal of Polymer Analysis and Characterization, 21(7), 647–656. https://doi.org/10.1080/1023666X.2016.1194616
2. Nagaraj, G., Arunachalam, M., Vinayagar, K. and **Paramasamy, S**., 2020. Enhancing performance of cell formation problem using hybrid efficient swarm optimization. *Soft Computing*, *24*(21), pp.16679-16690
3. Nagaraj, G., Manimaran, A., Rakesh, A.S., Abuthahir, S.S.S., Scholar, P.G. and **Paramasamy, S.**, 2015. Comparison of Matrix Clustering Methods to Design Cell Formation. *International Journal of Applied Engineering Research*, *10*(28), p.2015.
4. **Paramasamy, S.,** Manimaran, A., Vinayagar, K. and Nagaraj, G., 2019. Cell formation in sheet metal processing industry using genetic algorithm. *Caribbean Journal of Science*, *53*(2), pp.2526-2532.
5. Nagaraj, G., Manimaran, A., Abuthahir, S.S.S., Rakesh, A.S., Scholar, P.G. and **Paramasamy, S**., 2015. Productivity Enhancement by Balancing Takt Time in a Cellular Manufacturing Industry. *International Journal of Applied Engineering Research*, *10*(28), p.2015.
6. Perumal, A., Rajkumar, P.R., Venkatesan, G., **Paramasamy, S**. and Gangadharan, T., 2023. Multi-response optimization of machining parameters of Ti-6Al-2Sn-4Zr-2Mo alloy using EDM process through grey relational analysis. *Engineering Research Express*, *5*(2), p.025005.
7. Manimaran, A., Nagaraj, G., Venkumar, P. and **Paramasamy, S.,** 2013. Manufacturing cell formation using back propagation networks. *Elixir Mech. Engg*, *62*, pp.17803-17808.
8. VINAYAGAR, K., KUMAR, A.S., **PARAMASAMY, S**., PILLAI, G.P., NAGARAJ, G. and SIVAKUMAR, P., 2020. Multi response optimization of gas metal arc welding process parameters. *International Journal of Future Generation Communication and Networking*, *13*(2), pp.397-406
9. **ParamasamyShanmugam** G. Nagaraj, K.ArunBalasubramanian, T.Rajkumar,, 2023, An Impact of E-commerce Business on Mechanical Manufacturing Industry, Journal of Propulsion Technology, 44(5) pp.3479-3483

10. **Paramasamy, S.,** Manimaran, A., Vinayagar, K., Nagaraj, G. and Arasu, I.V., A Hybrid Swarm Based Optimization Approach for Solving Cell Formation Problem.
11. Nagaraj, G., Manimaran, A., Vinayagar, K. and **Paramasamy, S**., A novel hybrid DCMA-SSA paradigm for the multi-objective Cell Formation Problem.

Details of Book Chapter and Books Published: 1

Design and Development of 3D Printing on Bioinks and Biomaterials for Implants and Tissue Engineering, in Digital Design and Manufacturing of Medical Devices and Systems https://doi.org/10.1007/978-981-99-7100-8- Springer 2023

Details of Patents Filed and Granted: 2

1. Solar Grass Cutting Machine, Application No: 395141-001-Published 15-09-2023
2. Semi Trailing Arm Suspension with integrated knuckle for vehicle. Application No: 20244100553 A- Published- 03-01-2025

.