



# SETHU INSTITUTE OF TECHNOLOGY

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Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



<b>Department of Mechanical Engineering</b>				
<b>Name</b>	Dr.G.D.Sivakumar			
<b>Date of Birth</b>	26.10.1970			
<b>Unique ID</b>	1-422695362			
<b>Educational Qualifications</b>	B.E- Mechanical Engineering M.E-Industrial Engineering PhD- Design of Adaptive Kanban System Using Meta Heuristics			
<b>Designation</b>	Principal			
<b>EmailID</b>	principal@sethu.ac.in			
<b>AlternateEmail ID</b>	sivagdkumar@gmail.com			
<b>Experience</b>	Industry	Teaching	Others	Total
	1y	28Y 8M	-	29Y8M
<b>Date of Joining the Institution</b>	22-12-1998			
<b>Area of Specialization</b>	<b>INDUSTRIAL ENGINEERING</b>			
<b>Courses taught</b>	Thermodynamics, Fluid Mechanics, Engineering Drawing ,Statistical Quality Control, Operational Research, Hydraulics and Pneumatics, Machine Drawing, Python Programming ,Engineering Mechanics, Manufacturing Technology			
<b>Research Focus</b>	Inventory, Kanban System, Waste Management, Genetic Algorithm, Simulated Annealing, Supply Chain Management, Lean Manufacturing			
<b>Research guidance (Number of Scholars)</b>	6			
<b>Subject Competency</b>	Specialization, Journal Publication ,FDP			
<b>No. of papers published</b>	National Journals	International Journals	Conferences	
		19		
<b>PG Specialization</b>	INDUSTRIAL ENGINEERING			
<b>Ph.D. Specialization</b>	LEAN MANUFACTURING			



## Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	MECHANICAL ENGINEERING	MADURAI KAMARAJ UNIVERSITY	1992
PG	M.E	INDUSTRIAL ENGINEERING	MADURAI KAMARAJ UNIVERSITY	1996
Ph.D.	Ph.D	INDUSTRIAL ENGINEERING	ANNA UNIVERSITY (Guindy Campus)	2007

## Details of Journal Publication:

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	GD Sivakumar, S Rajaram	Assessment of safety culture in the fireworks industry	International Journal of Occupational Safety and Ergonomics	29	466-473	2023
2.	G.D. Sivakumar, J.Vairamuthu	The influence of nickel on the mechanical and tribological properties of AA2219-CNT composites made by stir casting	Materials Today Proceedings	59 , Part2	1478-1484	2022
3.	G.D. Sivakumar, J.Vairamuthu	Preparation and characterization of AZ63A/Boron Nitride composites using hybrid mechanical and ultrasonic assisted stir casting	Materials Today Proceedings	59 , Part2	1513-1519	2022
4.	G.D. Sivakumar, J.Vairamuthu	Mechanical properties of casting titanium alloy matrix composites reinforced by WC and TiB <sub>2</sub> ceramic particulates	Materials Today Proceedings	59 ,Part2	1503-1507	2022
5.	G.D. Sivakumar, J.Vairamuthu	The effect of process parameters for synthesized copper metal matrix using stir casting process	Materials Today Proceedings	45 ,Part2	1970-1974	2021

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
6.	G.D. Sivakumar C Kailasanathan, P R Rajkumar	Characterization and optimization of influence of MoS <sub>2</sub> hybridization on tribological behaviours of Mg–B <sub>4</sub> C composites	Bulletin of Materials Science	44 (192)		2021
7.	GD Sivakumar SV Sridhar,R	Experimental Investigation of Heat Transfer Enhancement of Shell and Tube Heat Exchanger Using SnO <sub>2</sub> -Water and Ag-Water Nanofluids	Journal of Thermal Science and Engineering Application	12(4)	TSEA 19-1335	2020
8.	D Sudarsan, GD Sivakumar	Implementation of kanban to improve efficiency of a manufacturing system subject to bottlenecks	International Journal of Manufacturing Technology and Management	34 (5),	467-480	2020
9.	Dr.G.D.Sivakumar D.Sudarsan	A Study on Impact of Rework in a Manufacturing System using Lean Techniques	Journal of Computational and Theoretical Nanoscience	15	886-894	2018
10.	G.D. Sivakumar S. Godwin Barnabas	Solid waste management across the World-areview	Eco. Env. & Cons	23	S339 - S348	2017
11.	G.D. Sivakumar S. Godwin Barnabasr	Landfill selection criteria in recycling sector using MCDM tools	Eco. Env. & Cons.,	22 (4)	S337 - S346	2016
12.	G.D. Sivakumar S. Godwin Barnabasr	Landfill selection for solid waste disposal system using fuzzy AHP approach	Eco. Env. & Cons.,	2(2)	S337 - S346	2016
13.	Dr.G.D.Sivakumar, S.Godwin barnabas, S.Anatharam	Indian Automobile Material Recycling Management	International Journal of Innovative Research in Science, Engineering and Technology	Volume 3, Special Issue 3,		2014

<b>S.No</b>	<b>Author(s)</b>	<b>Title</b>	<b>Name of Journal</b>	<b>Volume</b>	<b>Page</b>	<b>Year</b>
14.	Sivakumar G.D. Shahabudeen P	Algorithm for the design of multi stage adaptive kanban system	International Journal of Production Research	47 (23)	6707 - 6738	2009
15.	Sivakumar G.D. Shahabudeen P	Design of multi-stage adaptive Kanban system using simulated annealing	International Journal of Manufacturing Research	4(1)	95- 116.	2009
16.	Sivakumar G.D. Shahabudeen P	Design of multi-stage adaptive Kanban system	International Journal of Advanced Manufacturing Technology	38	321- 336	2008
17.	Sivakumar G.D. Shahabudeen P	Algorithm for the design of single stage adaptive kanban system	Computers and Industrial Engineering	54(4)	800- 820	2008
18.	Sivakumar G.D. Shahabudeen P	Design of Single stage adaptive kanban system Using Genetic Algorithm	International Journal of Services and Operations Management	4(1)	125- 144	2008