




JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Mechanical Engineering.



FACULTY PROFILE

Department: Mechanical Engineering

1. Personal Details

NAME	DR.MAMATHAT G	
DEPARTMENT	MECHANICAL ENGINEERING	
DESIGNATION	PROFESSOR	
PHONE	9910403225	
EMAIL ID	mamathatg@jssaten.ac.in	
Date of Joining (JSSATEN)	16-11-2004	

2. Experience

Total Experience in Years:	Teaching: 22Years	Industry: - Nil	Research: -08
----------------------------	-------------------	-----------------	---------------

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Industrial Engineering & Management	1998	Siddaganga Institute of Technology, TUMKURU	Bangalore University
M.Tech.	Product Design & Manufacturing	2002	BMS College of Engineering	Visveswaray Technological University
Ph.D.	Materials and Manufacturing	2013	National Institute of Technology, Hamirpur, H P	National Institute of Technology, Hamirpur, H P
Post Doc.	-	-	-	-

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 04	National: 00
Papers Published in SCOPUS indexed Journals	International: 05	National: 02
Papers Published in other Journals	International: 01	National: 02
Papers Presented in Conferences / Symposium	International: 6	National: 00
Books / Book chapters Published	<ol style="list-style-type: none"> 1. Paper entitled “ Erosive behavior of Alumina filled Zinc Aluminum Alloy Metal Matrix” is Published for book chapter in Mechanical Engineering for sustainable development State-of-the- Art-Research- AAP Apple Academic Press and CRC Press , April 2018 Edition. 2. Paper Entitled “ A comprehensive review of Ultrasonic machining-A tool for machining brittle materials” is published for book chapter in Advance Materials and Manufacturing Process, CEC Press, Page No 42, 1st Edition 2021 ISBN : 9781003093213 	

5. Research Guidance

PhD Guide? Give field & University	01	Materials and Manufacturing University: JSS Science & Technology University, Mysuru
PhDs / Projects Guided	Ph.D. Awarded: Guiding: NIL	Projects at Master’s Level: - 03 Projects at Bachelor’s Level: 20

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Performance enhancement of CAD/CAM Lab for teaching, Training, Consultancy and Research-MODROBS	Rs.1863000/-	29 th March 2019	2Years	AICTE
The Mechanical Design Techniques for Academic And Industrial Environment-FDP	Rs.600000/-	24 th March 2019	1year	AICTE
Advance Materials and manufacturing -STTP	Rs.3,70,000/-	August 2019	1 year	AICTE
Parametric studies during machining of Micro Channels on Silicon wafer using Micro Ultrasonic machining-VRPS	Rs.3,40,000/-	July 2018	3 years	Dr APJAKTU, Lucknow

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	Automatic sanitization using remotely operated vehicle-202011040259	Published in September 2021

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
-	-	-	-	-

7. Awards Received

Awards “Best Paper Award”	<ol style="list-style-type: none"> Received Ganesh Mishra memorial award from Institution of Engineers, (India) Odisha State center (53rd Annual technical session of on 5th February 2012) on Effect of Silicon carbide (SiC) particulate on Thermo- Mechanical and Damping behaviors of ZA-27 alloy composites. Srivastava, M., Srivastava, M., Sagar, P., & Mamatha, T. G. (2020). Simulation of human gait for design of lower extremity exoskeletons–A review, at International conference on Advanced materials and Manufacturing during 4-5th November 2020 at MNIT Jaipur.
--	---

8. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Finite element modeling and development of SiC filled ZA-27 alloy composites in environment: a comparative analysis.	Mamatha T G Amar Patnaik,	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	225: 1106-1120,2011	WOS	1.66	SAGE
2	Damage assessment of titania filled ZA-27 alloy metal matrix composites in an erosive environmental comparative study	Mamatha T G Amar Patnaik	International journal of Materials & Design	Vol.12 PP511-521 2012	WOS	7.99	Elsevier
3	Thermo-mechanical and crack position of Stress intensity factor in particle reinforced Zinc-aluminium alloy composites	Mamatha T G Amar Patnaik	Journal of Computational material science	55, 2012	WOS	2.63	Elsevier
4	Evaluation of	Biswas S,	Journal of	2012	WOS	0.9	SAGE

	thermo-mechanical behavior and stress intensity factor of titania-filled zinc-aluminium alloy composites	Satapathy A, Patnaik A, Mamatha. T.G	Materials: Design and applications				
5	A novel review on shape memory alloy and their applications in extraterrestrial roving missions.	Malik, V., Srivastava, S., Gupta, S., Sharma, V., Vishnoi, M., & Mamatha, T. G.	Materials Today Proceedings	2021	Scopus	1.24	Elsevier
6	Properties, functions and applications of commonly used lubricant additives	Singh, A., Verma, N., Mamatha, T. G., Kumar, A., Singh, S., & Kumar, K	Materials Today Proceedings	2021	Scopus	1.24	Elsevier
7	Efficiency enhancement of heat exchanger using inserts and nano-fluid-A review	Bhatanagar, I. K., Rai, M., Ashraf, M., Kapoor, O., Mamatha, T. G., & Vishnoi, M.	Materials Today Proceedings	2020.	Scopus	1.24	Elsevier
8	Simulation of human gait for design of lower extremity exoskeletons—A review. .	Mukund Srivastava, Mudita Srivastava, Piyush Bhatanagar, Mamatha T G	Materials Today: Proceedings	2020.	Scopus	1.24	Elsevier
9	A review on tribological performance of lubricants with nano particles additives.	Anurag Singh, Mamatha T G Prashant Chauhan	Materials Today: Proceedings	25 2020.	Scopus & WOS	1.24	Elsevier
10	A Comparative study of circularity of artefact detecting circle	S Raghu, TG Mamatha, HS Pali, Rina Sharma, JR Vimal, Vinod	Materials Today: Proceedings	25 2020.	Scopus & WOS	1.24	Elsevier

	using CMM and form tester with different filters	Kumar					
--	--	-------	--	--	--	--	--

National Journals

Sl. no.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Optimization of Turning Parameter for Roundness Investigation using V-block Method	S. Raghu, T. G. Mamatha , M. Vishnoi1 , G. Moona , R. Sharma	Indian Journal of Advances in Chemical Science	Vol.8 Issue:1 2020		4.1	KROS

Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impac Factor	Publisher
1	Solid particle erosion wear behavior of Alumina particulate filled ZA-27 alloy	T.G.Mamatha ,Amar Patnaik	National Conference on Advances in Polymer Science and Technology		-	-	Conference Proceedings

Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	National Conference on Advances in Polymer Science and Technology	NIT Hamirpur	22 nd October 2010

Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	National Conference on Advances in Smart Building, Trenchless Technology, & Intelligent Materials in Manufacturing	JSSATE-MED&CED	23 rd September 2021	Convener
2	2 days work shop on Curriculum Development	Dr APJ AKTU-MED	April2016	Co-Cordinator

ii. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	GIAN- Course on Composite materials & Structures: Processing and fabrication, Analysis and Design	TEQIP-III, JSS Science And Technology University, Mysore	31 st December 2018 to 11 th January 2019.

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	NBA Accreditation and Teaching-Learning in Engineering(NATE)	NPTEL	April 2020	89%

10. Membership of Professional Bodies:

Corporate member of Institution of Engineers F-121450-7
Life member of ISTE LM 44017
Life Member of SOMME LM-100603.

11. Any other information you will like to share about your professional experience