

## CURICULUM VITAE

### Academic Performance :

Name : **Dr.Yashas Gowda T G**

Date of Birth : **18-11-1992**

Qualifications : **B.E., M.Tech.,Ph.D**

Address : **Assistant Professor,  
Malnad College of Engineering,  
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Qualifications	Discipline/ Specialization	Institute	Board/ University	Year of Passing	Percentage/ Class Obtained
Ph.D	Composite Materials	The Sirindhorn International Thai- German Graduate School of Engineering	King Mongkut's University of Technology North Bangkok (KMUTNB)	2022	-
M.Tech	Machine Design	SJB Institute of Technology, Bengaluru	VTU, Belagavi	2016	83.12% (First Class with Distinction)
B.E	Mechanical Engineering	Malnad College of Engineering, Hassan	An Autonomous Institute under VTU, Belagavi	2014	78.25% (First Class with Distinction)
II P.U.C.	English Medium	Sathya sailoka seva PU college, Alike, SathyaSaiVihar, Dhakshina Kannada district.	Dept of Pre- University Education, Karnataka	2010	84.33%
Class X	English Medium	Central Board of Secondary Education	Central Board of Secondary Education	2008	83.6%

**Field of Specialization:** Natural fiber composites, Polymer Composites, Biopolymers, Advanced Material Technology ,Tribology.

**Title of the Ph.D Research Work :** Performance Assessment of Hybrid Fibers Reinforced Composites Under Tribological Conditions

**Techniques/Instruments Handled:**

- Fiber Extraction method
- Chemical Treatments
- Manufacturing Techniques: Hand lay-up, Autoclave, Compression Molding, Solution Casting Method, Vacuum Bagging Method.
- Universal Testing Machine
- Impact Testing Machine
- Tribometer
- X-ray powder diffraction (XRD)
- Scanning Electron Microscopy (SEM)
- Thermogravimetric Analyzer (TGA)

**Career Profile:**

Designation	Institution/Organization	Period
Assistant Professor	Malnad College of Engineering, Hassan, Karnataka, India	February 2017 to Till Date

**Fellowships:**

- **KMUTNB Full-tuition Fee Waving Scholarship**
- **KMUTNB PhD Scholarship (KMUTNB-62-PHD-11)**

**Awards and Recognition:**

- **Young Researcher Award by INSC-2021**
- **Global recognition as Top 2% cited Scientists for the year 2022-23 by Elsevier and Stanford University**

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➤ **Subjects Handled:**

- Dynamics of Machinery.
- Engineering Drawing.
- Kinematics of Machinery
- Elements of Mechanical Engineering.

**Responsibilities held:**

- Served as a CIE Coordinator, Mechanical Engineering. Malnad College of Engineering, Hassan.
- Samarth ERP Module co ordinator at Institute level.
- Worked as member of MHRD IIIC cell at Institute level.
- Member of Antiragging committee at Institute level.
- Active participation in NBA SAR Preparation along with NBA Team, Malnad College of Engineering, Hassan.

**List of conference organized organized:**

- Organizing Committee member in the **International Conference on Advances in Mechanical Sciences (ICAMS-2017)** from 3rd to 5th May 2017 organized by Department of Mechanical Engineering at Malnad College of Engineering, Hassan
- Organizing Committee member in the International Conference on **Green Trends in Mechanical Engineering (GTMES-2018)** from 3rd to 5<sup>th</sup> October 2018 organized by Department of Mechanical Engineering at Malnad College of Engineering, Hassan
- Organizing Committee member in the International Conference on **Trends in Mechanical Engineering Sciences (ICTMES-2020)** 6<sup>th</sup> and 7<sup>th</sup> August 2020 organized by Department of Mechanical Engineering at Malnad College of Engineering, Hassan
- **International Scientific Committee member** for International Symposium on “Lightweight and Sustainable Polymeric Materials 2023 (LSPM’23)”

## **List of Publications:**

### **Journals:**

1. G.Anil Kumar, J.Satheesh , **Yashas Gowda T.G**, T.Madhusudhan "**Hybrid Aluminium Metal Matrix Composites and Reinforcement Materials: A Review**" International Journal of Innovative Research in Science, Engineering and Technology,2016, ISSN : 23470-6710
2. G.Anil Kumar, J.Satheesh , **Yashas Gowda T.G**, T.Madhusudhan "**Tribological and mechanical properties of Al6082 reinforced with B4C particles produced by powder metallurgy technique**" IRJET,Volume 03,Issue 7,July 2016, ISSN: 2395 -0056
3. D Athith, **Sanjay M R**, T G Yashas Gowda, P Madhu, G R Arpitha, B Yogesha, Med Amin Omri, "**Effect of Tungsten Carbide on Mechanical and Tribological Properties of Jute/Sisal/E-Glass Fabrics Reinforced NaturalRubber/Epoxy Composites**" SAGE, Journal of Industrial Textiles, 2017. [DOI: 10.1177/1528083717740765](https://doi.org/10.1177/1528083717740765) (IF: 1.884, SCI Indexed)
4. **T G Yashas Gowda**, **Sanjay M R**, Subrahmanya Bhat, P Madhu, P Senthamaraikannan, B Yogesha, "**Polymer matrix-natural fiber composites: An overview**" TAYLOR & FRANCIS GROUP, Cogent Engineering, 2018. [DOI: 10.1080/23311916.2018.1446667](https://doi.org/10.1080/23311916.2018.1446667) (Scopus Indexed)
5. J Praveenkumara, P Madhu, **T.G Yashas Gowda**, S Pradeep, "**Studies on Mechanical Properties of Bamboo/Carbon Fiber Reinforced Epoxy Hybrid Composites Filled with SiC Particulates**" International Journal of Engineering Research and General Science Volume 6, Issue 5, September-October, 2018
6. **T G Yashas Gowda**, Sanjay M R, Jyotishkumar Parameswaranpillai, Suchart Siengchin, "**Natural Fibers as Sustainable and Renewable Resource for Development of Eco-friendly Composites: A Comprehensive Review**" Frontiers in Materials, Polymeric and Composite Materials, 2019.[DOI: 10.3389/fmats.2019.00226](https://doi.org/10.3389/fmats.2019.00226) (IF: 2.689, SCI Indexed)
7. K N Bharath, Madhu P, **Yashas Gowda T G**, Sanjay M R, Suchart Siengchin, Vinod Kushvaha. "**Alkaline effect on characterization of discarded waste of Moringa oleifera fiber as a potential eco-friendly reinforcement for biocomposites.**" Journal of Polymers and the Environment 28, no. 11 (2020): 2823-2836.

<https://doi.org/10.1007/s10924-020-01818-4>

8. K N Bharath, Madhu P, **Yashas Gowda T G**, Akarsh Verma, Sanjay M R, Suchart Siengchin. **"A novel approach for development of printed circuit board from biofiber based composites."** Polymer Composites 41, no. 11 (2020): 4550-4558. <https://doi.org/10.1002/pc.25732>
9. K N Bharath, Madhu P, **Yashas Gowda T G**, Akarsh Verma, Sanjay M R, Suchart Siengchin. 2021. **Mechanical and chemical properties evaluation of sheep woolfiber–reinforced vinylester and polyester composites.** Materials Performance and Characterization, 10(1), pp.99-109. <https://doi.org/10.1520/MPC20200036>
10. Vinod, A., **TG Yashas Gowda**, R. Vijay, M. R. Sanjay, Munish Kumar Gupta, Muhammad Jamil, Vinod Kushvaha, and Suchart Siengchin. **"Novel Muntingia Calabura bark fiber reinforced green-epoxy composite: A sustainable and green material for cleaner production."** Journal of Cleaner Production 294 (2021): 126337. <https://doi.org/10.1016/j.jclepro.2021.126337>
11. **Yashas Gowda T G**, Vinod.A, Madhu P, Vinod Kushvaha, Sanjay M R and Suchart Siengchin **"A new study on flax-basalt-carbon fiber reinforced epoxy/bioepoxy hybrid composites"** Polymer Composites, 2021, <https://doi.org/10.1002/pc>.
12. Praveenkumara, J., P. Madhu, **T. G. Yashas Gowda**, M. R. Sanjay, and Suchart Siengchin. **"A comprehensive review on the effect of synthetic filler materials on fiber-reinforced hybrid polymer composites."** The Journal of the Textile Institute (2021): 1-9. <https://doi.org/10.1080/00405000.2021.1920151>
13. Jagadeesh, Praveenkumara, Vidya Sagar Honnenahally Ningappa, Madhu Puttegowda, **Yashas Gowda Thyavihalli Girijappa**, Sanjay Mavinkere Rangappa, Mohammad Rizwan Khan, Imran Khan, and Suchart Siengchin. **"Pongamia pinnata shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics."** Polymer Composites 42, no. 9 (2021): 4434-4447. <https://doi.org/10.1002/pc.26160>
14. Jagadeesh, Praveenkumara, Madhu Puttegowda, **Yashas Gowda Thyavihalli Girijappa**, Sanjay Mavinkere Rangappa, and Suchart Siengchin. **"Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties."** Polymer Composites 43, no. 1 (2022): 160-172.

<https://doi.org/10.1002/pc.26478>

15. Vinod, A., Jiratti Tengsuthiwat, **Yashas Gowda**, R. Vijay, M. R. Sanjay, Suchart Siengchin, and Hom Nath Dhakal. "**Jute/Hemp bio-epoxy hybrid bio-composites: Influence of stacking sequence on adhesion of fiber-matrix.**" International Journal of Adhesion and Adhesives 113 (2022), <https://doi.org/10.1016/j.ijadhadh.2021.103050>
16. Kangokar Mukesh, Sathvik, Nuthan Bettagowda, Jagadeesh Praveenkumara, **Yashas Gowda Thyavihalli Girijappa**, Madhu Puttegowda, Sanjay Mavinkere Rangappa, Suchart Siengchin, and Sergey Gorbatyuk. "**Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies.**" Polymer Composites. 2022, <https://doi.org/10.1002/pc.26655>
17. **Yashas Gowda T G**, Madhu P, Vinod Kushvaha, Sanjay M R and Suchart Siengchin, "**Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy-based hybrid composites**" Polymer Composites, 2022, 1.  
<https://doi.org/10.1002/pc.26680>.
18. **Yashas Gowda T G**, Vinod.A, Madhu P, Sanjay M R, Suchart Siengchin and Mohammad Jawaaid "**Areca/synthetic fibers reinforced based epoxy hybrid composites for semi-structural applications**" Polymer Composites, 2022, <https://doi.org/10.1002/pc.26814>
19. **Yashas Gowda T G**, Vinod.A, Madhu P, Sanjay M R, Suchart Siengchin and Mohammad Jawaaid "**Mechanical and thermal properties of flax /carbon/kevlar based epoxy hybrid composites**" Polymer Composites, 2022. <https://doi.org/10.1002/pc.26880>
20. Sreenivas Huligere Thimmaiah,Krishnamurthy Narayanappa, **Yashas Thyavihalli Girijappa**, Arpitha Gulihonenahali Rajakumara,Mohit Hemath,Senthil Muthu Kumar Thiagamani,Akarsh Verma "**An artificial neural network and Taguchi prediction on wear characteristics of Kenaf–Kevlar fabric reinforced hybrid polyester composites**" Polymer Composites. <https://doi.org/10.1177/15280837211064804>
21. **Yashas Gowda Thyavihalli Girijappa**, Ballupete Nagaraju, S., Puttegowda, M., Verma, A., Rangappa, S.M. and Siengchin, S., 2023. Biopolymer-Based Composites: An Eco-Friendly Alternative from Agricultural Waste Biomass. *Journal of Composites Science*, 7(6), p.242.

22. Bharath, K.N., Puttegowda, M., **Yashas Gowda, T.G.**, Arpitha, G.R., Pradeep, S., Rangappa, S.M. and Siengchin, S., 2023. Development of banana fabric incorporated polymer composites for printed circuit board application. *Biomass Conversion and Biorefinery*, pp.1-14.
23. Jagadeesh, P., Puttegowda, M., **Thyavihalli Girijappa, Yashas Gowda.**, Shivanna, P., Mavinkere Rangappa, S. and Siengchin, S., 2023. Investigations on physical, mechanical, morphological and water absorption properties of ramie/hemp/kevlar reinforced vinyl ester hybrid composites. *Journal of Vinyl and Additive Technology*.
24. **Thyavihalli Yashas Gowda Girijappa, Yashas Gowda.**, Ballupete Nagaraju, S., Puttegowda, M., Verma, A., Rangappa, S.M. and Siengchin, S., 2023. Biopolymer-Based Composites: An Eco-Friendly Alternative from Agricultural Waste Biomass. *Journal of Composites Science*, 7(6), p.242.
25. Puttegowda, M. and., 2023. Innovative polymer science: Groundbreaking materials for a sustainable future. *Insight-Material Science*, 6(1).

## **Book**

1. Sanjay Mavinkere Rangappa, Jyotishkumar Parameswaranpillai, **Yashas Gowda T G**, Suchart Siengchin, M. Ozgur Seydibeyoglu “**Nanoparticle-Based Polymer Composites**” Woodhead Publishing Series in Composites Science and Engineering. Elsevier Inc.
2. BINOJ J S, Madhu P, Sanjay Mavinkere Rangappa, Suchart Siengchin, **Yashas Gowda T G** “Applications of Composite Materials in Engineering” Woodhead Publishing Series in Composites Science and Engineering. Elsevier Inc.

## **Book Chapters**

1. **T.G Yashas Gowda**, Sanjay M R, Jyotishkumar Parameswaranpillai, Suchart Siengchin, Klaus Friedrich, “**Tribological Applications of Polymer Composites**” In Book. *Tribology of Polymer Composites: Characterisation, Properties, and Applications*,

2. **Yashas Gowda T G**, Vinod A, Madhu.P.Sanjay M R, Jyotishkumar Parameswaranpillai, Suchart Siengchin “**Plastics in automotive applications**”, Encyclopedia of Materials: Plastics and Polymers.Elsvier.
3. P Madhu, **T G Yashas Gowda**, Sanjay M R, Jyotishkumar Parameswaranpillai, Suchart Siengchin, “**Effect of process engineering on the performance of hybrid fiber composites**” In book. Hybrid Fiber Composites. Materials, Manufacturing, Process Engineering. Wiley.
4. Jagadeesh, Praveenkumara, Madhu Puttegowda, **Yashas Gowda Thyavihalli Girijappa**, Sanjay Mavinkere Rangappa, Munish Kumar Gupta, and Suchart Siengchin. “**Mechanical, electrical and thermal behaviour of additively manufactured thermoplastic composites for high performance applications.**” In Additive and Subtractive Manufacturing of Composites, pp. 167-199. Springer, Singapore, 2021.
5. Vinod, A., **Yashas Gowda**, Senthilkumar Krishnasamy, M. R. Sanjay, and Suchart Siengchin. “**Thermal Properties of Hybrid Natural Fiber-Reinforced Thermoplastic Composites.**” Natural Fiber-Reinforced Composites: Thermal Properties and Applications (2022): 17-30.
6. Yashas Gowda T.G , Sanjay Mavinkere Rangappa , Suchart Siengchin , and Jyotishkumar Parameswaranpillai “**Introduction to nanoparticle-based materials and their composites**” “Nanoparticle-Based Polymer Composites” Woodhead Publishing Series in Composites Science and Engineering.
7. Nagaraju, S.B., Priya, H.C., **Yashas Gowda T.G** and Puttegowda, M., 2023. Lightweight and sustainable materials for aerospace applications. In *Lightweight and Sustainable Composite Materials* (pp. 157-178). Woodhead Publishing.
8. Sathyanarayana, K., Puttegowda, M., Rangappa, S.M., Siengchin, S., Shivanna, P., Nagaraju, S.B., Somashekara, M.K., Girijashankar, P.B. and **Yashas Gowda T.G** 2023. Metallic lightweight materials: properties and their applications. In *Lightweight and Sustainable Composite Materials* (pp. 47-67). Woodhead Publishing.
9. Jagadeesh, P., Puttegowda, M., **Yashas Gowda T.G.**, Sathyanarayana, K., Rangappa, S.M., Siengchin, S. and Hassan, S.A., 2023. Lightweight and sustainable materials for



structural applications. In *Lightweight and Sustainable Composite Materials* (pp. 197-217). Woodhead Publishing.

### International Conference

1. **Yashas Gowda Thyavihalli Girijappa**, Sanjay Mavinkere Rangappa, Suchart Siengchin  
**“Mechanical Property Evaluation of Hybrid Areca/Basalt/Carbon fibers Reinforced Epoxy/Bio-Epoxy Composites”** Research, Invention, and Innovation Congress  
 Bangkok, Thailand, 1 – 2 September 2021. (Oral presentation)
2. **Yashas Gowda Thyavihalli Girijappa**, Sanjay Mavinkere Rangappa, Suchart Siengchin  
**Mechanical and thermal properties of flax /carbon/kevlar based epoxy hybrid composites.** International conference on sugar palm and allied fibre polymer composites  
 2021 11 DECEMBER 2021(Oral presentation)

### Research Grants Sanctioned

Sl. No.	Title	Amount Sanctioned	Year of Sanction	Role	Agency
01	Investigation on Ballistic Mechanical Characteristics of Ramie-Hemp-Kevlar Based Vinyl Ester Hybrid Composites	7,000	2021-22	Guide	KSCST (Selected for State level seminar)

### List of short-term courses attended:

Sl. No.	Title	Duration	Organized by
1.	Ansys –Solutions For General Mechanical Engineering Problems	23rd -27th February 2015	KSIT,Bengaluru
2.	Faculty Development Program on Emerging Trends in Materials and Manufacturing Technology (ETMMT)	27th February – 03rd March, 2017	Malnad College of Engineering, Hassan

3.	Exclusive Faculty Development Training Programme on Geometric Dimensioning and Tolerancing	20th -24th March 2017	CMTI,Bengaluru
4.	Recent trends in solar energy applications	27th to 28th March 2017	Malnad College of Engineering, Hassan
5.	Three day workshop on Design and analysis of Airbus 350-900XWB and CFD applications	March 2017	Malnad College of Engineering, Hassan
6.	Materials & Manufacturing Technology	December 4th to 16th 2017	Ramaiah Institute of Technology, Bengaluru
7.	Challenges in Non Conventional Energy Sources	April 9th to 13th 2018	MCE, Hassan, Karnataka
8.	Total Quality Management	May 28th to June 1st 2018	MCE, Hassan, Karnataka
9.	Recent Trends in Automotive Technology	June 25th to 29th 2018	MCE, Hassan, Karnataka
10.	Thermo- Mechanical Simulator	July 17th to 20th 2018	IIT Roorkee, Roorkee (Uttarakhand)
11.	Being a great teacher	November 3rd and 4th November 2018	Mce,Hassan,Karnataka
12.	ATAL Online FDP on "Novel Materials"	5 TO 10 DEC 2020	Pillai College of Engineering
13.	Short Term Training Programme (STTP) Series on RECENT ADVANCES IN TRIBOLOGY AND SURFACE Series 2 of 4	14 TO 19 SEP 2020	Saintgits College of Engineering, Kottayam Kerala
14.	AICTE Training And Learning (ATAL) Academy Online FDP on "3D Printing & Design"	1 to 5 September 2020	Vidya Vardhaka College of Engineering, Mysore
15.	FDP on Advancements in Dynamic Analysis of Machine elements	27th to 29th July 2020	Vidya Vardhaka College of Engineering, Mysore
16.	FDP on Heating , Ventilation ,Air Conditionning and Refrigeration	3-8 August 2020	Vidya Vardhaka College of Engineering, Mysore
17.	ATAL Online FDP on "3 D Printing & Design "	01 <sup>st</sup> to 5 <sup>th</sup> September 2020	B.M.S College of Engineering
18.	Short Term Training Programme (STTP) Series on Recent Advances In Tribology And Surface Series 3 Of 4	12 <sup>th</sup> to 17 <sup>th</sup> October 2020	Saintgits College of Engineering, Kottayam Kerala
19.	Outcome based Education	19 th September to 23 <sup>rd</sup> September 2022	Malnad College of Engineering, Hassan

20.	International Workshop on Hybris composites for railway applications	18 <sup>th</sup> February 2022	KMUTNB (Virtual mode)
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**Professional Reference Details:**

	Reference 1	Reference 2	Reference 3
<b>Name</b>	Dr. S.Pradeep	Dr. Sanjay Mavinkere Rangappa	Dr.-Ing. Habil. Suchart Siengchin
<b>Designation</b>	Professor	Associate Professor	Ph.D Supervisor
<b>Position</b>	Principal	Senior Research Scientist	President
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**Declaration:**

I hereby declare that the above-mentioned information is true to my knowledge and I bear the responsibility for the above-mentioned particulars.

**Date:**

**Dr.Yashas Gowda T. G.**