

100+ Years of Glorious history inscribed in the yeomen service to the field of education

Centenary Celebrated Sharnbasveshwar Vidya Vardhak Sangha's

Estd. 2017  
ಸ್ಥಾಪನೆ : 2017



Prof. Dr. Sharnbasappa Appaji  
Founder-President  
Sharnbasveshwar Vidya Vardhak Sangha  
Chandike, Karnataka University



Prof. Rajasathi D. Babatya S. Appa  
Chairperson  
Sharnbasveshwar Vidya Vardhak Sangha  
Member of UGC, Karnataka University



Prof. Dr. Chiranjeevi Dasappa Appa  
Member of the President  
Sharnbasveshwar Vidya Vardhak Sangha

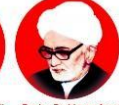
ಶರಣಬಸವ  
Sharnbasva



ವಿಶ್ವವಿದ್ಯಾಲಯ  
University



Prof. Dr. Malohri Godduti Aravji



Prof. Dr. Doodappa Appa  
Founder-President  
Sharnbasveshwar Vidya Vardhak Sangha

Kalaburagi - 585103, Karnataka - India  
ಕಲಬುರಗಿ 585 103 ಕರ್ನಾಟಕ - ಭಾರತ

Phone / Fax No. 08472-277852, 277853, 277854, 277855 www.sharnbasvauniversity.edu.in - email : Sharnbasvauniversity@gmail.com

UGC Status: Letter No. F.8-29/2017(CPP-I/PU), Dated 20 Dec. 2017. Enlisted by the University Grants Commission, New Delhi, in the list of Private Universities in India.  
A Private University enacted by Govt. of Karnataka as "Sharnbasva University Act. 2012" Karnataka Act No. 17 of 2013. Notification No. ED 144 URC 2016 dated 29/07/2017

## FACULTY OF ENGINEERING & TECHNOLOGY (CO-EDUCATION)

### DEPARTMENT OF MECHANICAL ENGINEERING

#### PUBLICATION DETAILS

#### **Prof. SHIVAKUMAR RACHOTI, CHAIRMAN, ME**

1 "An Experimental Study on Hemp/Sisal Fiber Embedded Hybrid Polymer Composites", S. Vijayan et al. (eds.), Trends in Manufacturing and Engineering Management, ISSN 2195-4356, ISBN 978-981-15-4744-7, Springer Nature Singapore Pte Ltd. 2021. Pp 293-301.

#### **Prof. SHARAN SHEGEDAR, Associate Professor, ME**

1. Studies on the Performance and Emission Characteristics of a Diesel Engine Fueled with Honge Pyrolysis Oil Blends. In: Sharma, D., Roy, S. (eds) Emerging Trends in Energy Conversion and Thermo-Fluid Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore. [https://doi.org/10.1007/978-981-19-3410-0\\_15](https://doi.org/10.1007/978-981-19-3410-0_15)
2. 'Study On Pyrolysis Oil And Its Utilization In A Diesel Engine', Ge-International Journal of Engineering Research, Vol. 10, Issue 6, June 2022, pp. 30-43.
3. 'Optimization of Process Parameters for the Production of Honge Bio-oil from Honge Seedcake through pyrolysis' International Journal of Research in Engineering and Applied Sciences (IJREAS), Vol. 12, Issue 06, June- 2022, pp.12-39.

#### **Dr. VISHWANATH PATIL, Associate Professor, ME, SUK**

1. Studies on mechanical behavior and morphology of alumina fibers reinforced with aluminium-4.5% copper alloy metal matrix composites Materials Today: Proceedings 46, 99-106.
2. A study on mechanical properties of aluminium-4.5% copper alloy metal matrix composites reinforced with alumina fibers using squeeze casting process, Polym. Compos 6, 22-31.
3. Crack Initiation, Propagation and Stress Intensity Factor of Rectangular Plate with Circular Hole by FEA Approach TSRSK JoEAM 11.
4. " Evaluation of Properties For Aluminium Alloy Metal Matrix Composites Reinforced With Fly-Ash" IJIERT 8 (7), 12.
5. A study on mechanical properties of aluminium-4.5% copper alloy metal matrix composites reinforced with alumina fibers using squeeze casting process J. Polym. Compos 6, 22-31.

6. "Design of Stretching Unit for continuous  $\beta$ -phase PVDF film And Analysis of Piezoelectric film Sensor for Transducer Applications" International Journal of Engineering Research and Technology (IJERT) ISSN: 2278-0181 Vol.2 Issue 12,December 2013.
7. "Characterization of Mechanical Properties of Aluminium Alloy Metal Matrix Composites" International Journal of Engineering Research and Technology (IJERT) ISSN: 2278-0181 Vol.3 Issue 12,December 2014.
8. "Interface Heat Transfer coefficient between casting and Round Chilled Moulds During Solidification of Aluminium Alloy Casting" International Journal of Engineering Research and Technology (IJERT) ISSN: 2278-0181 Vol.4 Issue 03, March 2015.
9. "A Wear behavior of Aluminium alloy metal matrix composites" International journal of research and innovation in applied science (IJRIAS) Vol.1 issue 09,Dec 2016.
10. A Perspective Study: Online education/Classes for Students to Aid During Covid-19 Pandemic. IOR INTERNATIONAL.

**Dr. PANKAJ R JADHAV, Associate Professor, Associate Professor, ME, SUK**

1. "Mechanical Behavior of B<sub>4</sub>C Particulates Reinforced A356 Alloy Composites" National Conference on Emerging Trends in Mechanical Engineering. American Journal of Materials Science, 2016, 6(4A): 51-55 DOI: 10.5923/c.materials.201601.10
2. "Evaluation of Mechanical properties of B<sub>4</sub>C and graphite particulates reinforced A356 alloy hybrid composites". International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016). Elsevier, Materials Today: Proceedings 4 (2017) 9972–9976
3. "A Comparative Study on Microstructure And Mechanical Properties of A356-B<sub>4</sub>C and A356-Graphite Composites" International Journal of Mechanical and Production Engineering Research and Development" ISSN (P): 2249-6890; ISSN (E): 2249-8001, Vol. 8, Issue 2, Apr 2018, 273-282
4. "Studies on Mechanical Behavior of A356 Alloy - 4 Wt. % Graphite And 8 Wt. % B<sub>4</sub>C Hybrid Composites", International organization of Scientific Research Journal of Engineering, ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 08, Issue 6 (June. 2018), ||V (IV) || PP 84-90
5. "Dry Sliding Wear Behavior of B<sub>4</sub>C and Graphite Particulates Reinforced A356 Alloy Composites", International Journal of Engineering & Technology, 7 (2.23) 2018, pp. 446 – 449
6. "Mechanical behavior and fractography of graphite and boron carbide particulates reinforced A356 alloy hybrid metal matrix composites", Advanced Composites and Hybrid Materials, Springer, ISSN 2522-0128, pg. 114-119, 2020.
7. "Impact of Boron Carbide and Graphite Dual Particulates Addition on Wear Behavior of A356 alloy Metal Matrix Composites", Journal of Metals, Materials and Minerals, Dec -2020.
8. "Microstructure, Mechanical Behavior and Tensile Fractography of 90-Micron-Sized Titanium Carbide Particles Reinforced Al2219 Alloy Die Cast Metal Composites", Journal of Failure Analysis & Prevention, Springer, doi.org/10.1007/s11668-020-01107-1, Jan -2021
9. "Wear behavior of Al2219-TiC particulate metal matrix composites" National Conference on Emerging Trends in Mechanical Engineering. American Journal of Materials Science, 5 (3C), pp.53-57, 2015.
10. "Evaluation of wear properties of TiC particulates reinforced Al2219 alloy composites", International conference on functional materials, characterization, solid state physics, power, thermal and combustion energy: fcsptc-2017. AIP Conference Proceedings 1859, 020058 (2017); doi: 10.1063/1.4990211

11. "Microstructure and dry sliding wear behaviour of Al2219-TiC composites "International Conference on Advanced Materials, Manufacturing , Management and Thermal Sciences (AMMMT-2016). Elsevier , Materials Today: Proceedings 4 (2017) 11004–11009.
12. "Design and Development of Manually Controlled, Fly Insects Repellent Window" International Journal of Advanced and Innovative Research (2278-7844) / # 112 / Volume 5 Issue 7

**Dr. AKASH, Associate Professor, ME, SUK**

1. "Effect of Fibre Orientation on Specific Gravity, Hardness, Flexural Strength and Tensile Properties of Jute/Hemp Hybrid Laminate Composite", Applied Mechanics and Materials Vols 766-767; pp 75-78, 2015.
2. "Mechanical Properties Of Jute And Hemp Reinforced Epoxy/Polyester Hybrid Composites", International Journal of Research in Engineering & Technology (IMPACT: IJRET), ISSN(E): 2321-8843; ISSN(P): 2347-4599, Vol. 2, Issue 4, Apr 2014, 245-248.
3. "Determining the Mechanical Properties of Treated and Untreated sugarcane Powder and Banana Reinforced Natural Composite Materials", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 11 (2015).
4. "Evaluation of Mechanical Properties of Sisal Fiber-Epoxy resin- Pulp of Samanea saman Pod Hybrid Composite", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.78, pages: 104-107, pages: 113-116, 2015.
5. "Evaluation of Mechanical Properties of Epoxy Resin and Alkaline Treated Sisal and Flax Fibers Reinforced Composites", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.78, 2015.
6. " Comparative Evaluation of Mechanical and Water Absorption Properties of Pure Epoxy Resin, Coir Fiber/Epoxy Resin and Hemp Fiber/Epoxy Resin Composite", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.55, pages: 3948-3951, 2015.
7. "Dry Sliding Wear behaviour of B4C Coating on AISI 410 Stainless Steel Deposited by HVOF Spraying", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 11, pages:10270-10275 2015.
8. "Mechanical Properties of Natural Fibers Reinforced Hybrid Composites", ARPN Journal of Engineering and Applied Sciences, Vol. 11, No. 1, January 2016.
9. "Investigation of HVOF Thermal Sprayed Micro B4C, Micro-1%, 2%, 3% Nano B4C Coatings on Dry Sliding Wear Performance of 410 Grade Steel", ARPN Journal of Engineering and Applied Sciences, VOL. 11, NO. 1, pages: 247-252, 2016.
10. "Mechanical Characterization of Red Mud Reinforced Al-8011 Matrix Composite", ARPN Journal of Engineering and Applied Sciences, VOL. 11, NO. 1, pages: 229-234, 2016.
11. "Fabrication and evaluation of mechanical properties of alkaline treated sisal/hemp fiber reinforced hybrid composite", IOP Conf. Series: Materials Science and Engineering 149, pages:1-7, 2016.
12. "Mechanical Properties of Sisal/Coir Fiber Reinforced Hybrid Composites Fabricated by Cold Pressing Method", IOP Conf. Series: Materials Science and Engineering 149, pages: 1-7, 2016.
13. " Dry Sliding Wear Performance Of Thermal Sprayed Micro- Nano Boron Carbide Coating On

410 Grade Steel”, ARPN Journal of Engineering and Applied Sciences, VOL. 11, NO. 6, MARCH 2016.

14. “A study on flammability and moisture absorption behavior of sisal/coir fiber reinforced hybrid composites”, IOP Conf. Series: Materials Science and Engineering 191, pages: 1-5, 2017.
15. “Effect of Samanea Saman Pod Pulp on Sisal/Coir Fiber Hybrid Composites”, Materials Today: Proceedings 4 (2017) 9592–9596.
16. “Effect of Samanea Saman Pod Pulp on Mechanical and Water Absorption Properties of Bio-Composites”, Materials Today: Proceedings 4 (2017) 11154–11157
17. “Effect of Particle Size on Mechanical Properties of Al-RMp Metal Matrix Composites” Materials Today: Proceedings 4 (2017) 11154–11157.
18. “An Experimental Study on Sisal/Hemp Fiber Reinforced Hybrid Composites”, Materials Today: Proceedings 5 (2018) 7383–7387.
19. “An Experimental Study on Hemp/Sisal Fiber Embedded Hybrid Polymer Composites”, S. Vijayan et al. (eds.), Trends in Manufacturing and Engineering Management, ISSN 2195-4356, ISBN 978-981-15-4744-7, Springer Nature Singapore Pte Ltd. 2021. Pp 293-301.
20. “Studies On Mechanical Behavior And Morphology Of Alumina Fibers Reinforced With Aluminium-4.5% Copper Alloy Metal Matrix Composites”, Materials Today: Proceedings (2020).
21. “Mechanical and fire retardant behaviour of Flax/Sisal fiber hybrid composites” Materials Today: Proceedings 64 (2022) 32–36.
22. “Experimental arrangement for estimation of metal-mold boundary heat flux during gravity chill casting”, Materials Today: Proceedings. Volume 72, Part 4, 2023, Pages 2013-2020.
23. “Solid Particle Erosion Performance of Multi-layered Carbide Coatings (WC-SiC-Cr 3 C 2 )”, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 02, pp813-819, June 2023.

**Prof. SHRISHAIL PATIL, Assistant Professor, ME**

1. Experimental And Fe Analysis of Solid Particle Erosion Study of Glass/Epoxy Composite Laminates In IJERT, Volume.5, Issue.02, February-2016.

**Prof. MAHESHKUMAR NIPPANI, Assistant Professor, ME**

1. Computer Aided Process Planning Using Neutral File Step for Rotational Parts- International Journal of Research and Innovation in Applied Science (IJRIAS)|Volume II, Issue II, February 2017|ISSN 2454-6194.
2. Hybrid method (attribute and hint based) for feature recognition using step neutral file- - International J. of Engg. Research & Indu. Appls. (IJERIA). ISSN 0974-1518, Vol.5, No. I (February 2012), pp. 301-312.

**Prof. SHARAN L H, Assistant Professor, ME**

1. "Solid Particle Erosion Performance of Multi-layered Carbide Coatings (WC-SiC-Cr<sub>3</sub>C<sub>2</sub>)", EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 02, pp813-819, June 2023.