

### **Patent Publications (2024 – 2025)**

1. Dr. S Kaliappan, Professor/Mechanical Engg.

**Title of the invention:** Ornamental Design for a Wearable Device for Monitoring and Improving Sleep Quality

**Application No. :** 457186-001

**Publication Date:** 30/04/2025

2. Dr. S Kaliappan, Professor/Mechanical Engg.

**Title of the invention:** Method for AI-Powered Predictive Maintenance in Smart Manufacturing Systems

**Application No. :** 202541041995

**Publication Date:** 30/04/2025

3. Dr. S Jesudass Thomas, Associate Professor/Mechanical Engg.

**Title of the invention:** Synthesis, Fabrication and Mechanical Characterization of Glass Fiber Reinforced Epoxy Composites filled with Silicon Carbide Fillers

**Application No. :** 202441091474

**Publication Date:** 24/11/2024

4. B Sri Sanjay, III Year Mechanical Engineering

**Title of the invention:** Algae Based Carbon Capture

**Application No. :** 7395964806

**Applied Date:** 26/06/2025

**Patent Publications (2023 – 2024)**

S.N o.	Name of the Faculty	Name of the Country	Patent Title	Published/ Filed	Date
1.	Dr D Easu	India	Suspension system using MRF and Hybrid magnet	Granted	28-03-2024
2.	Dr D Easu	India	Automated Lift system	Granted	19-12-2023
3.	Dr V Gopal	India	Natural Fibre Composites for 3D Printing Applications	Published	01/12/2023
4.	Dr V Gopal	India	Design of Flexure Hinges Tester	Granted	29-04-2024
5.	Dr V Gopal	India	Design and Analysis of High Strength to Weight Backhoe Loaders	Published	15.03.2024
6.	Dr V Gopal	India	Development of Low Cost Floor Cleaning Machine	Published	31/05/2024
7.	Dr.S.Gopinath  Dr.S.Jesudass Thomas  Dr.M.Vignesh Kumar	India	Lower Base Exoskeleton for Paralysed Patients	Published	27.10.2023
8.	Dr.S.Gopinath	India	Laser Marking Machine for Mechanical Model	Granted	25.12.2023
9.	Dr.S.Gopinath	India	Multi Axis CNC Milling Machine	Granted	14.02.2024

### Patent Publications (2022 – 2023)

**1. Title of the invention:** A Suspension System using Magnetorheological Fluid damper and Hybrid magnet to reduce road induced vibrations

**Application No.** 76th International Patent to HITS- Application No. 202022105151.8

**Publication Date:** September -2022

Dr. Aby Sam - Director, HITS

Dr. Linu Sam - Associate Professor, KCG College of Technology

**Dr. D Easu - Associate Professor, KCG College of Technology**

Dr. R Amrutha - Associate Professor, KCG College of Technology

**2. Dr. M Kannan, Professor, KCG College of Technology**

**Title of the invention:** COMBINED PERFORMANCE STUDY ON SOLAR OPERATED E-VEHICLE.

**Application No.** 202241063782, CBR No. 44989

**Publication Date:** 14-11-2022

**3. Name of the Inventor: Dr. V Gopal, Asst. Prof., KCG College of Technology**

**Title of the invention:** An Assembly with mechanical failure detection of selectively laser melted components constructed on - site and method thereof

Application No. 202341002128 A

Publication Date: 2022

S. No.	Applicant Name(s)	Inventor Name(s)	Patent Title	Application No. & Patent Filed Date	Published Date	Current Status
1.	KCG College of Technology	TADISETTI CHARAN DIXIT RAO, Mr. S JESUDASS THOMAS	AERODYNAMIC ROCKET DECELERATOR USING AUTOROTATION	20214103803 2 & 23/08/2021	Complete spec filled on 23/08/2021	Application Published on 24/02/2023
2.	KCG College of Technology	Dr. V Gopal, Mr. Anandh C Mathen Joseph,	OFF DELAY FAN	20214103803 1 & 23/08/2021	Complete spec filled on	Application Published on 24/02/2023

		Mr.Jayaram .P, Mr.Dhanasayan .D			23/08/2021	
3.	KCG College of Technology	Dhanush	BLOOM MECHANISM	20214103312 2 & 23/07/2021	Complete spec filled on 23/07/2021	Application Published on 27/01/2023
4.	KCG College of Technology	Dr. Edward Kennedy Dr. V.Andal Sandeep George R Venkatesan M Vijay R	Method For Producing Hybrid Composite Using Natural Fibres	20224100192 9 & 13/01/2022	Complete spec filed on 13/01/2022 Form 18 Filed on 03/02/2022	Application Published on 14/07/2023
5.	KCG College of Technology	Dr. Sridhara Hindustan Institute of Technology science Dr. Edward Kennedy Dr. V.Andal	Powered Fruit Harvesting device	20224100704 0 & 10/02/2022	Complete spec filed & Form 18 filed on 10/02/2022	Application Published on 14/07/2023
6.	KCG College of Technology FASH	Dr. G. Mohamed Zakriya Dr. V. Bhanu Rekha, Ms. K. Gowri, Dr. D. Easu	Fabrication of portable sewing thread making machine from cutting waste of garment industry - A sustainable approach	20194105394 5 & from 26/12/2019	Applicatio n published on 02/07/2021 1.Provision al Filed on 26/12/2019 & Complete Spec. filled on 17/09/2020. RE filed on	FER reply filed on 30/01/2023

					08/07/2022	
7	KCG College of Technology MECH	A.Kamalkhan, S.Devanand, D.Easu	Compactable couch	20204104024 7 & 17/09/2020	Application Published on 25/03/2022. 2. Complete spec filled on 17/09/2020. RE filed on	FER reply filed on 12- 07-2023