

09.08.2025

Patent Applied

Sl. No.	Applicant Name(s)	Inventor Name(s)	Title	Application No. & Patent Filed Date	Status
1	KCG College of Technology	Dr. G. Mohamed Zakriya (14TE1902), S.V. Dharaga Selvi (14TE2101), P. Karthigeyan (311019213005), Surya Bharath (311018213003)	Natural Fibre Blended Nonwoven Fabric and Composites – Thermal Insulation Shoe	202241001931 & 13/01/2022	Request for Examination filed
2	KCG College of Technology	Dr. G. Mohamed Zakriya (14TE1902), Mr. Shridhar V.A (15TE2101), Dr. V. Dillibabu (15TE2102), Dr. T. Mothilal (15TE1902)	Hot Compression Molding Machine for Making of Fibre Reinforced Composites	202241001919 & 13/01/2022	Request for Examination filed
3	KCG College of Technology	Ms. Anitha Samuel (14TE2001), Ms. J. M. Subashini (14TE2102), Ms. S. V. Dharagaselvi (14TE2101), Dr. V. Bhanu Rekha (14TE1802), Ms. K. Gowri (14TE1901), Dr. G. Mohamed Zakriya (14TE1902)	Manifold Seam Folder	202241001916 & 13/01/2022	Request for Examination filed
4	KCG College of Technology	Dr. R. G. Panneerselvam, Professor, Fashion Tech	Designing and Developing the Angular Interlock Weaves for Weaving the	202241001930 & 13/01/2022	Request for Examination filed



			Face-Back-Face Figured Fabrics		
5	KCG College of Technology	Dr. V. Andal (11TE1306), Dr. G. Mohamed Zakriya (14TE1902)	Nitrogen Doped NiCO ₂ O ₄ Impregnated Porous Carbon Electrode Development for Hydrogen Generation from Waste Water	202241001918 & 13/01/2022	Request for Examination filed
6	KCG College of Technology	G. Mohamed Zakriya, V. Bhanu Rekha, K. Gowri, D. Easur	Fabrication of Portable Sewing Thread Making Machine from Cutting Waste of Garment Industry – A Sustainable Approach	201941053945 & 2019	FER replied
7	KCG College of Technology	G. Mohamed Zakriya, V. Bhanu Rekha, K. Gowri, D. Easur	Diabetic Footwear	—	—
8	KCG College of Technology	V. Bhanu Rekha, S. V. Dharagah Selvi, Mahalakshmi	Texheal Bandage	—	—

Patent Received:

S.No	Title of the Invention	Application No.	Patent No.	Publication / Renewal Date
1	Modified Jacquard for Handlooms	201941008025	537756	01/03/2025
2	Low Weight Jacquard Hooks for Handlooms	201941008024	371367	01/03/2025
3	Magnetic Induction Fluid Heater and Heating Vessel	202241017781	530685	28/03/2026

4	Hot water inhaler device	2021103247 AP	--	10/06/2029
5	Process of Preparing Banana Fibre Reinforced Nonwoven Composite Bio Box	202241039577	470482	10/07/2028
6	Alternate Feed of Bamboo and Modal Yarn and Its Blends in Knit and Woven Fabric Development	201841025868	516263	11/07/2026
7	Jute-Hollow Conjugated Polyester Fibre Reinforced Nonwoven Composite	201741028558	460123	11/08/2025
8	Jute-Hollow Conjugated Polyester Fibre Nonwoven Flexible Composite Padding Material	201741043687	374441	06/12/2025

Publication

Paper publications in Journals by Faculty/Faculties of Dept

Name of the Faculty	Title of the Paper	Name of the journal/ Conference Proceedings	Volume, issue, page, Month and year)	National / International	Annexure (I/II)
2024-25					
Dr. R. G. Panneerselvam	Constructing principles of compound weave structures by digital design papers	Journal of the Textile Institute	October 2024	National	I
Mrs.G.Jayanthi	Tmab Modified Nife2O4 Nanoparticles For The Effective	Chemical Society of Ethiopia.	2024	International	I



				Removal Of Eriochrome Black-T Azo Dye”								
Mrs.G.Jayanthi				Effect of silane-functionalized green synthesized silver nanoparticle, ferrite, and silk microfiber epoxy composite on electromagnetic interference shielding		Journal of Materials Science: Materials in Electronics	2024		International		I	
				Assessing the Height, Width and Other Parameters of Elliptical Yarn Cross-Section Through the Thickness of Orthogonal Fabrics		Textile and Apparel Journal	Nov 2024		International		Sci i	
	S. No	Name of Author	Title of the Paper	Name of the Journal / Book Chapter / Conf. Series	SCI / Annexure 1 (Yes/No)	Link (SCI or Annexure 1 Sl. No)	SCI / Annexure 1	Indexing List (Scopus) Yes/No	National / International	Year of Publication with Month		
	1	Dr. G. Mohamed Zakriya, C. Prakash & G. Ramakrishnan	Exploration of Jute-HCP Composites Material for Building Environments	Journal of Natural Fibers	Annexure I	–	Annexure 1	Yes	International	29 Nov 2019		
	2	Dr. R. G. Panneerselvam	Use of indigenous electronic jacquard in handloom for weaving fashionable silk sarees	Dogo Rangsang Research Journal	–	–	UGC	No	National	July 2020		
	3	Dr. G. Mohamed Zakriya	Book - Natural Fiber Composites	Taylor & Francis - CRC Press	–	–	Yes	No	International	27 Sep 2020		



		Manufacturing, Characterization and Testing							
4	Gokarnesan, N., Bhanu Rekha, V.	Functional Properties of Eri Silk	International Journal of Multidisciplinary Educational Research	–	–	Yes	No	International	Apr 2021
5	SankarGanesh, S., Sreelatha, P., Bhanu Rekha, V., Puttumraju, A. K., Murugesan, B., & Sakthisudhan, K.	Textile antennas for breast carcinoma diagnosis application	Materials Today: Proceedings	Yes – S No – 8179	https://doi.org/10.1016/j.matpr.2020.12.221	–	Yes	International	Feb 2021
6	Dr. R.G. Panneerselvam and Dr. C. Prakash	Study of the required directional color contour option for the controlled weave application in the jacquard graph designing	Journal of Testing and Evaluation	Yes – S.No. 7480	–	–	Yes	International	Jun 2021
7	Gokarnesan, N., Bhanu Rekha, V.	Innovative Approaches in the Application of Natural Dyes on Wool – Road to Green	Green Chemistry for Sustainable Textiles – Modern Design and Approaches (The Textile	–	–	Yes	No	International	21 Jul 2021



		Coloration (Book Chapter)	Institute Book Series)						
8	V. Bhanu Rekha, C. Prakash & K. Gowri	Characterization of Pulp Extracted from Agro-waste Fibers Using Steam Explosion Technique	Journal of Natural Fibers	–	–	Yes	No	International	31 Aug 2021
9	Dr. R. G. Panneerselvam, V. Sriramulu, P. Ramalingam, and C. Prakash	A Study on the Revival of Jamdani Weaving Technique and Kalamkari Drawing—Dyeing Processes of Traditional Kodali Karuppur Sarees	Journal of Testing and Evaluation	Yes	–	Annexure 1	Yes	International	11 Oct 2021
10	Dr. R. G. Panneerselvam, and C. Prakash	Study on the float control weaves applications algorithms of computer aided jacquard graph designing for different figured fabrics	Journal of the Textile Institute	Yes – S.No. 7329	–	Annexure 1	Yes	International	03 Jan 2022
11	Surya Bharath and Dr. G.	Design of personal protective wear for disabled	International Ergonomic	SCOPUS	Lecture Notes in Networks and	–	Yes	International	2022



	Mohamed Zakriya	people: An improvisation on Ergonomics	Conference, IIT Guwahati		Systems, Vol. 391				
12	Surya Bharath, V. Bhanu Rekha & K. Gowri	Advances in Design, Music and Arts II pp 124–137	Springer Series in Design and Innovation (SSDI, Vol. 25)	SCOPUS	–	–	Yes	Internationa I	29 Jun 2022
13	Dr. R. G. Panneerselvam, D. Balamurugan, C. Prakash and D. Raja	A study on generating the perspective projection of different weave structures using 3D computer-aided designing tools	Journal of the Textile Institute	Yes – 7329	–	Annexure 1	Yes	Internationa I	14 Nov 2022
14	V. Bhanu Rekha, C. Prakash & K. Gowri	Synthesis and characterization of superabsorbent natural polymers from agro-waste fibres	Indian Journal of Fibre & Textile Research	Yes	–	Annexure 1	Yes	Internationa I	22 Dec 2022
15	V. Bhanu Rekha, C. Prakash & T. Rasigha	Fabricating a Sanitary Napkin Performance Tester	Journal of Natural Fibers	Annexure I	–	Annexure 1	Yes	Internationa I	19 Mar 2022
16	Panneerselvam, R. G., Prakash, C., Rashma, M., Rajpurohit, Taruna	Computer-Aided Special Stepping Jacquard Graphing for Weaving the	Journal of Testing and Evaluation, ASTM International	Annexure I	–	Annexure 1	Yes	Internationa I	08 Aug 2023



		Reversible Traditional Jamdani Fabrics Using Discontinuous Inter-turning Extra Weft							
17	G. Mohamed Zakriya, S. Hemavarthini, SM Udaya Krithika, S. Sakthivel	Thermal comfort properties of bilayer knitted fabric for sportswear	Asian Textile Journal	SCOPUS	–	NA	Yes	International	Jul 2023
18	G. Mohamed Zakriya, N. Mekala and Sakthivel Santhanam	Development of polymer composites from waste cotton, coffee husk, and sawdust for thermal insulation materials	Polymers and Polymer Composites	Annexure I	–	Annexure 1	Yes	International	2023
19	G. Mohamed Zakriya, S. Hemavarthini, S. Sakthivel, SM Udaya Krithika, Dharaga Selvi, S.V. Mani K	Moisture management properties of bi-layer knitted fabric for sportswear	Asian Textile Journal	SCOPUS	–	NA	Yes	International	Nov 2023
20	R. G. Panneerselvam, C. Prakash, G. Mohamed	Assessing the Height, Width and Other Parameters of	Textile and Apparel Journal	SCI / SCOPUS	SCI, Anna University Annexure I, Q3 Journal	Annexure 1	Yes	International	Nov 2024



	Zakriya and D. Raja	Elliptical Yarn Cross-Section Through the Thickness of Orthogonal Fabrics			with Impact Factor: 0.703				
21	V. Bhanu Rekha, V. Vandhana Devi, G. Jayanthi, Y. Romario and D. Nethra Shree	Harnessing the power of hyacinth plants	Asian Textile Journal	SCOPUS	–	–	Yes	International I	May 2024
22	Panneerselvam, R. G., Prakash, C., Rashma	Constructing principles of compound weave structures by digital design papers	Journal of the Textile Institute	SCI	S.No. 7329	Annexure I	Yes	International I	Oct 2024

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