Bharathiar University

State University I "A++" Grade by NAAC I 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr K AMUTHA

Assistant Professor
Department of Textiles and Apparel Design

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Research Area

- Natural dyes
- Natural fibres
- Sustainable textiles
- Nonwovens

Courses Teaching

- Apparel Production Technology
- Clothing Care and Maintenance
- Textile Testing
- Sustainable Fashion

Research Experience: 10

Teaching Experience: 14

Research Credentials (as on November 2026 – Source: Google scholar)
H-index: 11 Citations: 657 i10-index: 13

Patents : Granted: 1

Publications
International Journals: 9 National Journals: 6

Career

At Bharathiar University

1. Designation : Assistant Professor
Period : October 2014 - Till Date

Education

Ph. D.
Subject : Textiles & Apparel Design
Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award : June 2019

M. Sc.
Subject : Textiles & Apparel Design
Institution : Punjab Technical University
Affiliated University : Punjab Technical University
Year of Award : September 2012

Projects
National Level
Ongoing - completed - 1

Research Guidance
Completed
Ph.D. - 1
On Going
Ph.D. - 2

Dr K AMUTHA , Assistant Professor , Department of Textiles and Apparel Design

Visits

1. 10th Nonwoven Tech Asia (Mumbai) (2024-08-24 - 2024-08-22)
2. Invited Lecture (2025-03-12 - 2025-03-17)

Programs organized

1. Apparel Testing and Regulations for International Market (2015-03-26 - 2015-03-27)
2. Eco-Textiles: A Step towards Sustainability (NCETS 2015) (2015-10-09 - 2015-10-09)
3. TEXNOVATION 2016 (2016-02-19 - 2016-02-19)
4. Textile Testing and Quality Control (2017-02-27 - 2017-02-28)
5. Demonstration (visit) (2017-03-01 - 2017-03-02)
6. Environmental Impacts of Textiles (2020-11-10 - 2020-11-19)
7. Handloom Awareness Exhibition (2023-08-07 - 2023-08-07)
8. Crocheting Techniques (2025-07-25 - 2025-07-26)
9. Macramé Techniques (2025-08-07 - 2025-08-08)

Patents

Granted - 1

1. DYEING OF TEXTILES USING DYES DERIVED FROM AGRO-WASTE 04-2023 429599 AMUTHA K

Selected Publications

1. Design and Development of Sustainable Soft Toys: A Transformation towards Bio and Circular Economies

International Journal of Innovative Research in Technology, 12(11), 5165- 5171 (April 2026)
Amutha K

1. Characterization of adhesive bonded nonwovens made from blends of agro?waste, cotton, and viscose fibers

Cellulose, 32, 8487-8505 (September 2025)
Ramya K, Amutha K, Sukanya Devi R

2. Cellulosic bark fibers as sustainable and renewable reinforcement in biocomposites: a comprehensive review

Cellulose, 32, 6337-6361 (May 2025)
Ramasamy, S., Karuppuchamy, A., Rangappa, S.M. et al.

3. Characterization of Ligno-cellulosic fibers from Wild turmeric (Curcuma aromatica) petiole for potential textile applications

Cellulose, 31,10593–10605 (October 2024)
Ramya Kanagaraj & Amutha Karuppuchamy

4. Novel banana core stem fiber from agricultural biomass for lightweight textile applications

Industrial Crops and Products, 209, 117985, 1-11 (March 2024)
A Karuppuchamy, K Ramya, R Siva

5. Ecofriendly Dyeing of Textiles with Natural Dyes Extracted from Commercial Food Processing Waste Materials

Journal of Natural Fibers, 19(15): 10394-10411 (May 2023)
Amutha K*, Grace Annapoorani S, P Sakthivel, Sudhapriya N

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6. Comprehensive characterization of novel Robusta (AAA) banana bracts fibers reinforced polylactic acid based biocomposites for lightweight applications

Polymer Composites 43(11): 8569-8580 (November 2022)
Ramasamy, S., Karuppuchamy, A., Jayaraj, J. J., Suyambulingam, I., Siengchin, S., & Fischer, S

7. Characterization of Natural Fibers Extracted from Banana Inflorescence Bracts. Journal of Natural Fibers

Journal of Natural Fibers 19 (3): 872-881 (May 2020)
K. Amutha*, A. Sudha & D. Saravanan

8. Dyeing of textiles with natural dyes extracted from Terminalia arjuna and Thespesia populnea fruits

Industrial Crops and Products, 148 (March 2020)
Amutha K*, Grace Annapoorani S, Sudhapriya N

9. Sustainable Antimicrobial Finishing of Fabrics using Natural Bioactive Agents-A Review

International Journal of Life Science and Pharma Research, 8(4), L10-L20 (October 2018)
A Reshma, V Brindha Priyadarisini, K Amutha