

Name : Dr. S Aruna
Staff ID :- -
Designation : Associate Professor and Head
Department : Costume Design and Fashion
Experience : 11 years
Qualification : Ph.D
Specialization: Textile Processing
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ACADEMICS

Degree	Branch	Institution / University	Year of Completion
Ph.D.	Textiles and Clothing	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	2017
M.Phil.	Textiles and Clothing	Avinashilingam University for Women, Coimbatore	2012
MBA	Marketing	Bharathiar University, Coimbatore	2010
M.Sc.	Costume Design & Fashion	PSG College of Arts and Science, Coimbatore.	2010
B.Sc.	Apparel Designing and Fashion Art	Avinashilingam University for Women, Coimbatore	2008

RESEARCH AND PUBLICATIONS

GRANTS

Title	Agency	Amount	Year	Status
CREATEX - Co-creation for Textile Higher Education Capacity Building in Ethiopia and Kenya	Erasmus+	INR 53,50,000	2024	Ongoing

GUIDANCE

Program	No. of Scholars	
	Completed	Pursuing
Ph. D.	1	-

Journal Publications

1. Banale, A.K, Fante, K.A, Aruna, S, & Sathiesh Kumar, S (2025). Design and Materials of Flexible Wearable Microstrip Patch Antenna: A Systematic Review. Discover Applied Sciences, Vol.7, 477.
2. Aruna, Nachiappan Sukumar & Vasugi Raaja (2020), Microencapsulation of Herbal Extracts for Antimicrobial Finishing, Journal of Textile Engineering and Fashion Technology, Vol. 2 No. 3, pp. 15 - 22.
3. Sukumar Nachiappan, Gnanavel P, Dharmalingam S and Aruna Sampath (2020), "Development of chemical protective clothing using multilayer fabric for hazardous chemicals handling" Journal of Natural Fibers, 1-13. <http://dx.doi.org/10.1080/15440478.2020.1764450>. (Impact Factor - 1.252).
4. S. Sathiesh Kumar, S.Vairam, N. Neelakandeswari, S.Aruna (2018). New heterojunction solar cells using copper oxide ingrained MWCNT: fabrication and performance analysis. Solar Energy, 166, 195-202.
5. S. Sathiesh Kumar, S.Vairam, N. Neelakandeswari, S.Aruna (2018). Effect of metal oxide charge transfer layers on the photovoltaic performance of carbon nanotube heterojunction solar cells. Materials Letters, 220, 249-252.
6. S.Aruna, N. Vasugi Raaja, S. Sathiesh Kumar (2016), Fabrication of Antimicrobial Textiles Using Hydrothermally Synthesized Copper Oxide Nanoparticles, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 2: 2112-2119.
7. S.Aruna, N. Vasugi Raaja, S. Sathiesh Kumar (2016), Functionalisation of Polycotton Fabric with Hydrothermally Synthesized ZnO Nanoparticles, International Journal of Engineering Sciences & Research Technology, 5(4):318-324.
8. S.Aruna and N.Vasugi Raaja (2015), Antimicrobial Finishing of Cotton Fabric Using Herbs, Research Highlights, Vol.25, No.3:188-194.

Proceedings

1. S.Aruna & N.Vasugi Raaja (2017), Evaluation of Antimicrobial Activity of Iron Oxide Treated Fabrics for Health Care Textiles, Conference Proceedings of Scientific Perspectives in Home Science, 623-629, ISBN:978-93-84234-06-5.
2. S.Aruna and N.Vasugi Raaja, "Synthesis Characterization and Application of Nano TiO₂ for Antimicrobial Finish of Polyester/Cotton Blended Fabric" Proceedings of the National conference on "Eco-Textiles and Green Consumerism" (ETGC-2017) at Avinashilingam institute for Home Science and Higher Education for Women, Coimbatore during 24th February, 2017.
3. S.Aruna and N.Vasugi Raaja, "Fabrication of Antimicrobial Textiles using Iron Oxide Nanoparticles Synthesized by Hydrothermal Method" Proceedings of the National

conference on “Eco-Textiles and Green Consumerism” (ETGC-2016) at Avinashilingam institute for Home Science and Higher Education for Women, Coimbatore during 9th - 10th March, 2016.

4. S.Aruna and N.Vasugi Raaja, “Preparation, Characterization and Application of TiO₂ Nanoparticles on Polyester/Cotton for Imparting Multifunctional Properties” in three days National Conference on Bio-Nanotechnology “BIONANO 14” at Sri Ramakrishna Engineering College, Coimbatore on 21st – 23rd August 2014.
5. N.Vasugi Raaja and S.Aruna, “A Study on Eco Friendly Herbal Antimicrobial Finished Cotton Fabric using Microencapsulation Technique” proceedings of the Seventh Indo-US Collaborative International Conference on “Advances in Textile, Machinery, Nonwoven and Technical Textiles” (ATNT 2011) at Kumaraguru College of Technology, Coimbatore on 15th -17th December 2011.
6. S.Aruna and N.Vasugi Raaja, “Adventure towards Herbal Textiles” at Vivekanandha College for Women, Tiruchengode on 15th September 2011.
7. N.Vasugi Raaja and S.Aruna, “An Eco- Friendly Herbal Antimicrobial Finishing on Cotton Fabric using Microencapsulation Technique” proceedings of the International Conference on “Textiles A Decade Ahead” at North India Section of The Textile Institute and Indian Institute of Technology, New Delhi on 9th -10th September 2011.
8. S.Aruna and N.Vasugi Raaja, “Innovative Plasma Technology for Biomedical Application with Treatment of Neem Oil Vapour” proceedings of the 13th International conference on “Emerging Interfaces of Physical Sciences and Technology” (CONIAPS XIII) at University of Petroleum and Energy Studies, Dehradun on 14th – 16th June, 2011.
9. S.Aruna “Production of Herbal based Microcapsules for Medical Textiles” proceedings of the National Conference on Innovations in Textile Processes & Products at PSG College of Technology, Coimbatore on 29th April 2011.
10. M.Kanimozhi and S.Aruna, “Role of Nonwoven in Automobile Textiles as Acoustics” in proceedings of National Level Technical Symposium on “Fashionista 11” at PSG College of Technology, Coimbatore on 5th March 2011.
11. S.Aruna and N.Vasugi Raaja, “Microencapsulated herbals for antimicrobial finishing of bamboo fabric” proceedings of the International Conference on “Global Women Entrepreneurship with Fashionable Handicrafts” Fashion snoop-2011 at Vivekanandha College for Women, Tiruchengode on 9th -10th February 2011.
12. S. Aruna, “Microencapsulated herbals for antimicrobial finishing of bamboo fabric” in proceedings of “Young Talent Search-2010” at Textiles Committee Auditorium organized by Society of Dyers and Colourists (SDC), Mumbai on 19th November 2010.

PRESENTATIONS

	State Level	National	International
Conference	2	1	3
Seminar	3	1	2

PARTICIPATION

	State Level	National	International
Conference	1	2	2
Seminar	1	3	2
Workshop	2	1	1
FDP/PDP 1	1	2	1

Events Organized (Seminar/Conference/Workshop)

1. “International seminar on material characterisation” at Kombolcha Institute of Technology, Ethiopia on 2nd March, 2021.
2. “International seminar on auxetic fibrous materials” at Jimma Institute of Technology, Ethiopia on 19th March, 2022.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

1. Resource person for an international conference on “Change makers & Innovators in Sustainable Fashion industry” organised by Kongunadu arts & Science College, Coimbatore, 25th March, 2021.
2. Resource person for one day workshop on “Batik and Tie-Dye” organised by The TIPS Global Institute on 9th December 2017.
3. Resource person for two-day workshop on “Terracotta Jewellery Making” organised by Avinashilingam University for Women on 5th & 6th February 2015
4. Resource person for two-day workshop on “Terracotta Jewellery Making” organised by Kongunadu College of Arts and Science on 23rd January, 2015.

Members in BoS/ Editorials/ Professional Bodies

1. BoS member for B.Voc Garment Designing, PSGR Krishnammal College for Women, Coimbatore
2. BoS member for B.Sc Fashion and Costume Designing, Holy Cross College, Trichy