




**INSTITUTE OF HOME ECONOMICS**  
**UNIVERSITY OF DELHI**



Name	Dr. Charu Gupta	Photograph
Designation	Associate Professor	
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Educational Qualifications: Ph.D., M.Sc., B.Sc.

Teaching experience: 26 years

Subjects/Papers Taught: Undergraduate: Textile Processing, Introduction of Textiles/ Fundamentals of Textiles, Textile Design / Traditional Indian Textiles, Textile Care and Conservation.  
Postgraduate: Dyeing, Printing and Colour Measurement, Fashion Merchandise Retail, Sustainability in Textiles and Fashion.

Research Interest/Specialization: Natural dyes, Microbial dyes, Textile wet processing, Sustainable processing and dyeing of textiles, Textile market research,

**Research Projects**

Title	Funding agency/organization	Duration of Project
Designing of knitted saree blouse and stole	UGC	3 years (2002-2005)
Isolation and identification of pigment producing fungi for use as a textile dye	DU – Research Council	1 year (2012-2013)
Optimisation and characterisation of microbial dyes for dyeing different textile substrates	DU – Research Council	1 year (2013-2014)
Developing a sourcing database and analysing the dynamics of Indian home furnishing industry: retail and consumer perspectives	DU – Research Council	1 year (2013-2014)
Recycling of Pre- consumer textile waste using water soluble films for developing an eco-friendly label	DU – Research Council	1 year (2015-2016)
Degumming of silk using Microbial Protease	DU – R &D Grant	1 year (2015-2016)
Sales Force Training	Tribal Cooperative Marketing Development federation of India, Ministry of India.	3 months

#### Research papers since 2010(APA format)

1. Gupta, D., Chaudhary, H., & Gupta, C. (2015). Sericin based bioactive coating for polyester fabric. *Indian Journal of Fibre & Textile Research (IJFTR)*, 40(1), 70-80.
2. Gupta, C., & Aggarwal, S. (2016). Natural Approach to Improving Light Fastness of a Leather Dyed with a Microbial Colorant. *Journal of the American Leather Chemists Association*, 111(09), 315-324.
3. Gupta, C., & Aggarwal, S. (2016). Dyeing wet blue goat nappa skin with a microbial colorant obtained from *Penicillium minioluteum*. *Journal of Cleaner Production*, 127, 585-590.
4. Jain, P., & Gupta, C. (2016). Textile recycling practices in India: a review. *International Journal of Textile and Fashion Technology*, 6(6), 21-36.
5. Chaudhary, H., Gupta, D., & Gupta, C. (2017). Multifunctional dyeing and finishing of polyester with Sericin and Basic dyes. *The Journal of The Textile Institute*, 108(3), 314-324.
6. Gupta, C., Vaid, N., & Jain, A. (2016). Recycling pre-consumer textile waste using water soluble film technology for promoting environmental sustainability. *International Journal of Science and Research*, 5(11), 1001-1006.
7. Sudha, Gupta, C., & Aggarwal, S. (2017). Optimization and extraction of extra and intracellular color from *Penicillium minioluteum* for application on protein fibers. *Fibers and Polymers*, 18(4), 741-748.
8. Sudha, Gupta, C., & Aggarwal, S. (2017). Eco-benign wet processing of leather: from dyeing to after treatment. *Int J Home Sci*, 3, 693-697.
9. Naaz S, Gupta C, Agarwal S. (2017). Microbial Protease: A degumming Agent. *International journal of recent research and applied sciences*, 4 (6), 90-94.
10. Devi, S., Gupta, C., Parmar, M. S., Jat, S. L., & Sisodia, N. (2017). Eco-Fibers: Product of Agri-Bio-Waste Recycling. *Journal of Humanities and Social Science*, 22(9), 51-58.
11. Devi, S., Gupta, C., Jat, S. L., & Parmar, M. S. (2017). Crop residue recycling for economic and environmental sustainability: The case of India. *Open Agriculture*, 2(1), 486-494.
12. Chaudhry H, Gupta C, Gupta D. (2017). Eco-friendly technologies of hydrolysis for polyester modification – Part I. *Asian Dyer*, 14 (3), 47-52.
13. Chaudhry H, Gupta C, Gupta D. (2017). Eco-friendly technologies of hydrolysis for polyester modification Part II. *Asian Dyer*, 14 (4), 51-55.
14. Chaudhry H, Gupta C, Gupta D. (2017). Application of Box and Behnken design to optimise the parameters for chemical modification of polyester using sodium hydroxide. *Manmade textiles in India*, XLV No.11, 373-378.
15. Saroj, D., Charu, G., Parmar, M. S., Shankar, L. J., Needhi, S., & Neha, K. (2019). Mechanical properties of reinforced polyester and epoxy composites of corn (*Zea mays*) stalk fibre. *Indian Journal of Agricultural Sciences*, 89(5), 873-876.

#### Association with Professional Societies

1. Member, Textile Association of India
2. Home Science Association of India