



INSTITUTE OF HOME ECONOMICS
UNIVERSITY OF DELHI



Name	Sonia Chaudhary	Photograph
Designation	Associate Professor	
E-mail	sonia.chaudhary@ihe.du.ac.in	
Educational Qualifications: BSc (Medical) Botany, Zoology, Chemistry MSc (Biotechnology) CSIR-UGC NET Qualified		
Teaching experience: 22 Years		
Subjects/Papers Taught: Molecular Biology, Virology, Microbial Genetics, Cell Biology, Recombinant DNA Technology, Principles of Genetics, Food Microbiology and Food Safety		
Research Interest/Specialization Biotechnology, Research interest is the use of microsatellite markers in studying genetic diversity, Natural Antimicrobial Agents, Testing the antimicrobial efficiency of antimicrobial agents against bacteria, Application of antimicrobial extracts on Fabrics and development of antimicrobial fabrics. Quality Assessment of Water, Milk, and Food on the basis of microbiological and phage assay based tests.		
Research papers (APA format)		
1. Gupta, A K., Chauhan, M., Tandon, S N., Chaudhary, S. (2005) “Genetic diversity and bottle neck studies in the Marwari horse breed”. <i>Journal of Genetics</i> , 84(3), 295- 301.		
2. Chaudhary, S. , Nigam, A. (2020). “Antimicrobial Fabrics: An Innovation in Textile Technology.” <i>Journal of the Textile Association</i> , 81(4), 204- 213.		
3. Chaudhary, S. , Batham, M. (2021). “ Antimicrobial activity of cotton fabric (cambric) treated with extract obtained from <i>Cymbopogon</i> (Lemongrass) for controlling <i>Staphylococcus aureus</i> (bacterium)” <i>Journal of the Textile Association</i> , 81(5), 253-263.		
4. Chaudhary, S. (2021) “Study on <i>Arachis hypogaea</i> shell extract for controlling the growth of <i>Escherichia coli</i> on cotton fabric.” <i>Journal of the Textile Association</i> , 81(5), 343-350.		
5. Chaudhary, S. , Batham M (2021) "To study the effect of antibacterial finish obtained from <i>Cymbopogon</i> (Lemongrass) against <i>E. coli</i> on cotton fabric (Cambric)". <i>Journal of Man-made Textiles in India</i> 49(7), 223-230.		
6. Sen, A., Kapila, R., Chaudhary, S. , Nigam, A.(2021) “Biotechnological Applications of Microbial Enzymes to Replace Chemicals in the Textile Industry – A Review”. <i>Journal of the Textile Association</i> , 82(2), 68-73.		
7. Batham M, Singh S, Chaudhary S. (2025) “Groundnut Shell Extract for Cotton: Assessing Antibacterial Action Against <i>Staphylococcus aureus</i> ”. <i>Journal of the Textile Association</i> , 86(2), 406-410.		

Administrative Responsibilities:

- **Worked in following committees in last 22 years:** IQAC, Admission and Counselling, Internal Assessment and Attendance, Sports Committee, Purchase Committee, Examination Committee, Annual Day Prize Committee, Placement Committee, NAAC-Infrastructure and Amenities Committee, Central Lab Committee, Rajbhasha and Viksit Bharat Committee
- **Active member in syllabus setting** (Semester, CBCS, LOCF, FYUP Schemes)
- **Deputy Superintendent** of Examination in May-June, 2017 and Dec-Jan, 2025-2026
- **Staff Council Treasurer** (2017)
- **Staff Association Treasurer**
- **Active Member in Rajbhasha Committee** (2024-2027)
- **Active Member in Viksit Bharat Committee** (2025-2026)
- **Member of the Screening Committee** (2022-2023)
- **Staff Secretary** (2024-2025)
- **College Annual Report Compiled** (2024-2025)
- **Delhi University Annual Report for our college Compiled** (2024-2025)
- **Teacher In charge of Dept Microbiology** (2016-2018) (2026-2028)
- **IQAC Member** (2022-2024)

Awards Received:

- Post Graduate Merit Scholarship from DBT.
- Awarded second prize in poster competition in MSc.(Biotechnology)
- Qualified the joint CSIR-UGC National Eligibility Test (NET) for the award of Junior Research Fellowship and Lectureship in 2003 December
- **Grade A/A+** Certificates awarded for attending **Five** Faculty Development Programs conducted by Ministry of Education under PMMMTTC
- Attended 4 week online workshop on systematic Review in Research: From Framing to Publication

M.Sc. Dissertations Guided:

1. “Study on Antibacterial Activity of Cotton Fabric Treated with Lemon Grass Herbal Extract” guided in the year 2016
2. “Development of Iron Rich Frozen Bread using Dehydrated Vegetable Powders” guided in the year 2019.
3. “Development of Biodegradable Packaging Film using Green Banana Peel Flour” guided in the year 2019
4. “To study Anti -microbial effect of Groundnut Shell Extract when applied on cotton fabric” guided in the year 2019.
5. “Comparative Analysis of Microbiological Quality of Water from Different Sources via Conventional and Phage-Based Assays”. guided in the year 2026.
6. “Microbiological and Phage Assay based Assessment of Quality at Different Sampling Sites of the Yamuna and the Ganga Rivers”. guided in the year 2026

Poster Presented:

- **First Position** awarded for the Poster presented entitled “Comprehensive Water Quality Assessment by combining Microbial and Physico-Chemical Evaluation” at the international conference “ Trends in Biological Sciences-2025” organized by the School of Life Sciences, JNU, New Delhi and ICGB, New Delhi, India.

Book/Chapter Published:

- Sunita Aggarwal, **Sonia Chaudhary** “Foodborne diseases Food safety & standards Block-1 (Course4A) The National Institute of Health and Family Welfare (NIHFW); 2013
“Food Borne Diseases” Title of Unit “Food Safety and Standards” For distant Learning Program conducted by National Institute of Health and Family Welfare.

Association with Professional Societies

- Lifetime Member of Association of Microbiologists of India