

## **Dr. J N CHAKRABORTY, PROFESOR, TEXTILE TECHNOLOGY**



### • **Personal Details**

**Name** : Dr. J N Chakraborty

**Designation** : Professor

**Department** : Textile Technology

**Qualification** : Ph D in Textile Chemistry, IIT Delhi, 2001  
M Tech in Textile Chemistry, M D Univ., Rohtak, 1990  
B Sc Tech in Textile Technology, University of Calcutta, 1985

**Address** : A-9 NIT Campus  
NIT, PO. REC,  
Jalandhar ( Punjab ) - 144011

**Phone** : +919417139036

**Email ID** : chakrabortyjn@nitj.ac.in

**Fax** : +91-181-2690932/320

### • **Other Profile Links**

- Expert / Chairman for NBA Accreditation: around 25 institutions
- Expert, Ph D thesis evaluation and conduct of viva-voce
- Expert for Faculty recruitment in Engineering institutions
- Mentor: Jawarlal Nehru College of Engg. & Technology, Sundernagar, HP, 2005-2008
- Mentor: Panipat Institute of Engg. & technology, Panipat, 2008-2010
- Consultancy in chemical and mechanical testing

- **Research Profile**

- Textile Chemical Processing: Pretreatment / dyeing / Printing /Finishing
- Micro-encapsulation
- Reduction of Waste water load in Textile industries
- Enzymatic pretreatment and colouration in textiles

- **Journal Publications**

International Journals

1. R B Chavan and J N Chakraborty, '*Dyeing of Cotton with Indigo using Iron(II) salt Complexes*', *Coloration Technology*, 117, 2 (2001) pp88-94.
2. J N Chakraborty and R B Chavan, '*Dyeing of Cotton with vat dyes using iron(II) salt complexes*', *AATCC Review*, 4, 7 (2004) pp17-20
3. J N Chakraborty and R B Chavan, '*Continuous vat dyeing of cotton at room temperature using iron(II)salt complexes*', *Melliand International*,11,1 (2005) pp46-49.
4. J N Chakraborty, M Das and R B Chavan, '*Kinetics of Dyeing and Properties of Iron(II) salt Complexes for Reduction of Vat Dyes*', *Melliand International*, 12, 4 (2005) pp319-323.
5. J N Chakraborty, R Pal and R Gupta, '*Garment dyeing as compared to fabric dyeing and their conformance*', *Melliand International*, 14, 3 (2007) pp 256
6. A K Patra and J N, Chakraborty, '*Low temperature peroxide bleaching of flax*', *Textile Asia*, September (2009) pp19-21
7. J N Chakraborty and Guneet Dhiman, '*Effectiveness of laccase in the oxidation and recovery of sulfur dyes*', *Textile Research Journal*, 83, 5, March (2013) pp 441–449
8. Priyadarshi Jaruhar and J N Chakraborty, '*Dyeing of cotton with sulfur dyes using alkaline protease*', *Textile Research Journal*, 83, 13, August (2013) pp 1366 - 1376.
9. Priyadarshi Jaruhar and J N Chakraborty, '*Dyeing of cotton with sulfur dyes using alkaline pectinase*', *Journal of Chemistry and Chemical Engineering*, 7(2013) pp 199-208
10. Priyadarshi Jaruhar and J N Chakraborty, '*Dyeing of Cotton with Sulphur Dyes Using Alkaline Lipase as Reduction Catalyst*', *Journal of Energy and Chemical Engineering*, Vol. 2, Issue 2, April, 2014, pp 59-66
11. Dhiman, G. & Chakraborty, J. N. "Soil release performance of cotton finished with Oleophobol CPR and CMC-Na salt". *Fashion and Textiles*, 1(23), December, 2014, pp 1-15
12. J N Chakraborty, Vivek Sharma and Preeti Gautam, '*Enhancing UV Protection of Cotton through application of novel UV Absorbers*', *Journal of Textile and Apparel, Technology and Management*, 9 (1), Fall 2014, 1-17

13. Amandeep Kaur and J N Chakraborty, 'Influence of pH in bromelain treatment on wool for anti-felting and reduced pilling behaviour: An objective assessment approach', *Journal of Textiles (Hindwai)*, Volume 2015, Article ID 230879, 1-7
14. Guneet Dhiman, & J. N. Chakraborty, "Antimicrobial performance of cotton finished with triclosan, silver and chitosan". *Fashion and Textiles*, 2 (13), December, 2015,. pp 1-14.
- 15 Amandeep Kaur, J N Chakraborty and Kashyap Dubey 'Functionalisation of wool for felting shrink-resistance', *Journal of Natural Fibres*, 13:4 (2016), pp. 437-450, DOI: 10.1080/15440478.2015.1043686
16. Amandeep Kaur and J N Chakraborty, 'Controlled eco-friendly shrink-resist finishing of wool using bromelain', *Journal of Cleaner Production*, 108 (2015), pp 503-513
17. Shelly Khanna, Swati and J N Chakraborty, 'Performance assessment of Fragrance finished cotton with cyclodextrin assisted anchoring hosts, *Fashion & Textiles*, 2 (1), October, 2015, 2-19
18. Shelly Khanna, and J N Chakraborty, 'Optimization of Monochlorotriazine  $\beta$ -cyclodextrin grafting on cotton and assessment of release behavior of essential oils from functionalized fabric, *Fashion & Textiles*, In Press
19. Amit Madhu and J N Chakraborty, Developments in Application of Enzymes for Textile Processing, *Journal of Cleaner Production*, 145 (2017), pp 114-133
20. Jashdeep Sharma and J N Chakraborty, "Developments in Eco-friendly Pretreatment of Textiles", *AATCC Review*, In Press
21. J N Chakraborty and Priyadarshi Jaruhar, "Dyeing of Cotton with Sulphur Dyes using Alkaline Enzymes as Alternate Reducing systems", *AATCC Journal of Research*, Communicated
22. Guneet Dhiman, & J N Chakraborty, "Assessment of Durable Press Performance of Cotton finished with Modified DMDHEU and Citric Acid". *Fashion and Textiles*, Communicated.
23. J N Chakraborty, A V Sethi, Priyanka Dhaka and Md. Arif, "Technology and application of shape memory polymers in textiles, *Research Journal of Textile and Apparel*, Communicated

### **National Journals**

1. J N Chakraborty, 'Reactive HE dyes- Chemistry, Techniques and Effluent problems involved', *Textile Dyer & Printer*, 23, 26 (1990) pp31-33.
2. J N Chakraborty, 'Exact Volume of water to be used in Jigger dyeing', *Textile Dyer & Printer*, 24, 23 (1991) pp31-33.
3. R C D Kaushik, J K Sharma and J N Chakraborty, 'Effluent load in Dyeing with Direct dyes', *Asian Textile Journal*, 1 , Dec. 92 / Jan 93 (1992) pp52-53.

4. J N Chakraborty, '*Production loss in Dyehouses - Practical faults in Shop-floor level*', Textile Dyer & Printer, 25, 6 (1992) pp23-26.
5. J N Chakraborty, '*Sodium Hydrosulphite in Vat dyeing*', Indian Textile Journal, 103, 10 (1992) pp24-31.
6. R C D Kaushik, J K Sharma and J N Chakraborty, '*Investigation of Oxidiser / Reducer to Control Effluent load in dyeing with Sulphur dyes*', Asian Textile Journal, 2, 1 (1993) pp47-50.
7. R C D Kaushik, J K Sharma and J N Chakraborty, '*Effluent load in Polyester dyeing*', Colourage, 40, 4 (1993) pp33-35.
8. J N Chakraborty, '*Reduction of Effluent load in Dyeing of Cotton fabric*', Indian Textile Journal, 103, 2 (1993) pp66-70.
9. J N Chakraborty and S K Laga, '*Colour Mixing and Colour Matching*', Textile Dyer & Printer, 26, 8 (1993) pp25-27.
10. R C D Kaushik, J K Sharma and J N Chakraborty, '*Source Reduction Technique to Control Effluent load in Reactive dyeing*', Asian Textile Journal, 1, 9(1993) pp33-40.
11. J N Chakraborty, '*Proper Washing and Oxidation during Dyeing of Cellulosics*', Textile Industry of India, 7 (1994) pp7-11.
12. S D Deshpande, S K Laga, A K Ghosh and J N Chakraborty, '*Finishing of Knitted goods*', Textile Trends, 7 (1994) pp41-42.
13. S D Deshpande, S K Laga and J N Chakraborty '*Application of Textiles in Automobile Industry*', Colourage, 41, 8 (1994) pp33-35.
14. S K Laga, S D Deshpande, J N Chakraborty and A K Ghosh, '*Finishing of Cotton goods of Special weaves*', Textile Dyer & Printer, 27, Sept. 28 (1994) pp20-22.
15. S K Laga, S K Sharma and J N Chakraborty, '*Jute as Geo-textiles*', Colourage, 42, 1 (1995) pp25-27.
16. S K Laga, S D Deshpande, J N Chakraborty and A K Ghosh, '*Finishing of Special Fabrics, Part – I*', Textile Trends, 1 (1995) pp43-46.
17. S K Laga, S D Deshpande, J N Chakraborty and A K Ghosh, '*A Novel Approach for the Finishing of Special Fabrics, Part–I*', Textile Dyer & Printer, March 15(1995) pp20-23.
18. S S Chinchwade, S K Laga, V B Upadhye, P V Kadole, D P Chatterjee and J N Chakraborty, '*Air Pollution and its Control, Part–I*', Textile Dyer & Printer, July 19 (1995) pp24-25.
19. S D Deshpande, S K Laga, A K Ghosh and J N Chakraborty, '*Finishing of Bast Fibre goods*', Textile Trend, August (1995) pp37-38.

20. J N Chakraborty, '*Dyeing of Acrylics*', Indian Textile Journal, 106, 1 (1996) pp24-27.
21. J N Chakraborty, '*Disperse dyeing of Polyester*', Indian Textile Journal, 105, 4(1996) pp 60-63.
22. J N Chakraborty, V Verma and N Sehgal, '*Combined Desizing, Scouring and Bleaching of Cotton fabric*', The Textile Industry & Trade Journal, 34, India-ITME issue (1996) pp87-88.
23. J N Chakraborty, B S Bedi and M Surendran, '*Combined Scouring and Vat dyeing of Cellulosics*', The Textile Industry & Trade Journal, Export Number (1996) pp114-116.
24. S K Laga, S S Chinchwade, S D Deshpande, J N Chakraborty and A K Ghosh, '*Finishing of Special sorts, Part-I*', The Textile Industry & Trade Journal, Jan/February (1997) pp51-54.
25. S K Laga, S S Chinchwade, S D Deshpande, J N Chakraborty and A K Ghosh, '*Finishing of Special sorts, Part-II*', The Textile Industry & Trade Journal, Mar/ April (1997) pp41-43.
26. J N Chakraborty, V Arora, P Kumar and J Singh, '*Use of Ammonia in dyeing with Reactive dyes*', Indian Textile Journal, 106, 4 (1997) pp98-99.
27. S K Laga, S S Chinchwade, S D Deshpande and J N Chakraborty, '*Finishing of special sorts, Part-III*', The Textile Industry & Trade Journal, May / June(1997) pp37-38.
28. J N Chakraborty, A Dhand and S K Laga, '*Effect of Degumming and Bleaching*', Indian Textile Journal, 106, 7 (1997) pp70-74.
29. S K Laga, P Panda, S D Deshpande, J N Chakraborty and A K Ghosh, '*Finishing of Special sorts,Part-IV*', The Textile Industry & Trade Journal,Sept/Oct(1997)pp25-26.
30. S K Laga, P Panda, S D Deshpande, J N Chakraborty and A K Ghosh, '*Finishing of Special sorts, Part-V*', The Textile Industry & Trade Journal , May / June (1998) pp23-24.
31. R B Chavan and J N Chakraborty, '*Enhancement in Indigo Uptake on Cotton through Metal salt Pretreatment*', Indian Journal of Fibre & Textile Research, July, 25 (2000) pp130-137.
32. R B Chavan, S Jahan and J N Chakraborty, '*Innovation in dyeing of cotton with Indigo*', Colourage, January (2003) pp73-79.
33. J N Chakraborty and R B Chavan, '*Dyeing of Denim with indigo*', Indian Journal of Fibre & Textile Research, Indian Journal of Fibre & Textile Research, 39, March (2004), pp100-109.
34. J N Chakraborty, G Sophat, N Singh and J Singh, '*Effect of sodium hydroxide on polyester*', The Indian Textile Journal, April (2004) pp19 - 23.
35. J N Chakraborty, B Sur, S Singh and S K Laga, '*Multi - Mono Coloured Effect on Cotton through Pretreatment with NaOH*', Colourage, 11 (2004) p27-32.
36. J N Chakraborty, Jaspreet Kaur, M Khanna and V V Marwaha, '*Ink-Jet Printing of Textiles*', Asian Textile Journal, 14, 11 (2005) pp 59-64.

37. J N Chakraborty, Rudrajit Pal and P R Megha, '*Garment Dyeing*', Indian Journal of Fibre & Textile Research, 30, 4 (2005) pp468-476.
38. J N Chakraborty, Ruhi Gupta, Vijaya Rani and Monimoy Das, '*Chemical processing of silk*', The Indian Textile Journal, 14, 12 (2005) pp39-51.
39. J N Chakraborty, Rudrajeet Pal and Ramanpreet Kaur, '*Plasma treatment of textiles*', Asian Textile Journal, 15, 12 (2006) pp67-76.
40. A K Patra and J N Chakraborty, '*Linen - Perspective and Chemical pretreatment*', Asian Textile Journal, 18, 1 (2009) pp67-72
41. Amandeep Kaur and J N Chakraborty, '*Computer Integrated Manufacturing: An indispensable technology for Apparel Industry*', Asian Textile Journal, 18, 3 (2009) pp58-61
42. Amandeep Kaur and J N Chakraborty, '*Essence of healthy and motivative clothing*', Asian Textile journal, 18, 4 (2009) pp37-39
43. J N Chakraborty, Guneet Dhiman and Pratibha Singh, '*Differential coloured effect on denim garments*', Asian Textile Journal, 19, 4 (2010) pp 63-69
44. J N Chakraborty, Venkata Parameswararao B and Rajesh Dwivedi, '*Anti-microbial finishing of Textiles*', Asian Textile Journal, 19, 11 (2010) pp 31-36
45. A K Patra, A Madhu and J N Chakraborty, '*Study on enzymatic pretreatment of linen*', Indian Journal of Fibre & Textile Research, 35, 4 (2010) pp 337-341
46. J N Chakraborty, D Arjun and K Srinivasulu, '*Application of Textiles in Medical, hygiene and health care*', Asian Textile Journal, 19, 12 (2010) pp 43-57
47. Amandeep Kaur and J N Chakraborty, '*Smart handling of Stripes and Checks in Apparels and Fashionwears*', Asian Textile journal, 20, 4 (2011) pp37-39
48. Guneet Dhiman and J N Chakraborty, '*Parachute: The Aerodynamic Lifting and Deaccelerating Device*', Asian Textile journal, 20, 6 (2011) pp 66-75
49. Amandeep Kaur, Shelly Khanna, Shilpa Dua and J N Chakraborty, '*Textile structured ECG for Cardiac-care*', Asian Textile Journal, 20, 7 (2011) pp 43-48
50. J N Chakraborty, Vivek Sharma and Preeti Gautam, '*Fantasy of Chromic Colourants*', Asian Textile Journal (ISSN 0971 3425), 20, 8 (2011) pp 63-66
51. J N Chakraborty, Vivek Sharma and Preeti Gautam, '*Colourful horizon of lumines-cence*', Asian Textile Journal (ISSN 0971 3425), 21, 4, 2012, pp71-75
52. J N Chakraborty, Preeti Gautam and Vivek Sharma, '*Textile cardiovascular implants: ensuring healthy heart*', Asian Textile Journal (ISSN 0971 3425), 21, 5, 2012, pp67-70
53. J N Chakraborty, Vivek Sharma and Preeti Gautam, '*Textiles: Empowering the aviation*', Asian Technical Textiles, April-June, 2012, pp 37-42
54. J N Chakraborty, Vivek Sharma and Preeti Gautam, '*Enhanced protection in textiles against UV radiations*', Asian Textile Journal , 21, 7, July, 2012, pp 57-61

55. J N Chakraborty, Preeti Gautam and Vivek Sharma, *Anti bacterial finishes on cotton promoting health and hygiene*, Asian Textile Journal, 22, 2, February, 2013 pp 45-49
56. A K Patra, S S Mahish and J N Chakraborty, *'Wet pretreatment of linen by enzyme and alternative bleaching techniques'*, Indian Journal of Fibre & Textile Research, Vol. 38, June 2013, pp. 150-155
57. J N Chakraborty and Diksha Deora, *'Functional and interactive sportswear'*, Asian Textile Journal, 22, 9, September, 2013, 69-74
58. J N Chakraborty, Tharakeshwari. S and Swati, *'Enzymatic colouration of textiles'*, Asian Textile Journal, October, 2013, pp 49-54
59. J N Chakraborty, Swati and Tharakeshwari S, *'Microencapsulation: The momentous technology in Textiles'*, Asian Textile Journal, January, 2014, pp 63-69
60. J N Chakraborty and Priyadarshi Jaruhar, *'Dyeing of cotton with sulphur dyes using alkaline catalase as reduction catalyst'*, Indian Jr of Fibre and Textile Res, 39, September (2014), pp 303-309
61. J N Chakraborty and P P S Madān, *'Imparting anti-shrink properties to wool by individual and simultaneous application of keratinase and papain'*, Indian Jr of Fibre and Textile Research, 39, Dec (2014), pp 411-417
62. J N Chakraborty and Yashdeep Sharma, *'Manufacture and application of Carbon fibre reinforced composites'*, Asian Textile Journal, 40, February (2015) pp 42-48
63. J N Chakraborty and Himadri Tanaya Mahanta, *'Real-time inspection of textile surfaces using sliding windows algorithm'*, Asian Textile Journal, 24(10), October (2015), pp 73-76.
64. J N Chakraborty, Yashdeep Sharma and Pritpal Singh, *'Synthesis and application of nanoparticles for enhancement in properties of textiles'*, Asian Textile Journal, ISSN: 09713425, 24(12), 2015, pp 60-64
65. J N Chakraborty and Himadri Tanaya Mahanta, *'Application of Artificial Neural Network in Colour Matching Algorithm'*, Asian Textile Journal, February, 2016, pp 40-43
66. J N Chakraborty, M R Mohapatra and Jatin Kumar, *"Unpleasant odour management techniques in apparel sectors"*, Asian Textile Journal, November, 2016, pp 66-73
67. J N Chakraborty and Apan Goyal, *"Constructional significance of protective clothings"*, Asian Textile Journal, In Press
68. J N Chakraborty, Jitesh Kumar Sankhala, and Aditi, *"The world towards ultrasonic seaming"*, Asian Technical Textiles, In Press
69. J N Chakraborty\*, Gargi Kulshreshtha and Jagjeevan Kaur, *"Effect of radiations on properties of textiles"*, Asian Textile Journal, In Press

- **Conference Publications**

International Conferences

1. R B Chavan and J N Chakraborty, '*Alternate Reducing Systems based on Iron(II) complex in Dyeing of Cotton with Vat Dyes*', 1<sup>st</sup> international symposium in Textile Engg., 5-8<sup>th</sup> April, 2000, Natal, Brazil
2. S K Laga, V B Upadhye, S S Chinchwade and J N Chakraborty, '*Use of low cost Absorbents for Treatment of Process house Waste Water*', 2<sup>nd</sup> Indo-Czech Textile Research Conference, 28<sup>th</sup>–29<sup>th</sup> Nov, 2003, Coimbatore
3. J N Chakraborty, '*Vat dyeing of cotton at room temperature with iron(ii) salt- weaker ligand based reducing systems*', International conference on 'Futuristic Trends in Textiles', December 10-12, 2007, National Institute of Technology, Jalandhar, Punjab, India.
4. A K Patra and J N Chakraborty '*Studies on preparatory processing of linen*', International conference on 'Futuristic Trends in Textiles', December 10-12, 2007, National Institute of Technology, Jalandhar, Punjab, India.
5. A K Patra and J N Chakraborty, 'Enzymatic scouring of linen with Pectinase and Xylanase', 1<sup>st</sup> SMARTEX- Egypt 2011 World Textiles Conference, November 22–24, 2011, Kafrelsheikh University, Egypt.
6. J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Textile composites empowering the aerospace sector', AATCC International Conference on Advances in fibres, finishes, technical Textiles and Non-wovens (AFFTTN) , October 1-2, 2013, The Orchid, Mumbai, India.
7. J N Chakraborty, Vivek Sharma and Preeti Gautam, 'Nanotechnology adding new dimensions to UV protection of cotton', AATCC International Conference on Advances in fibres, finishes, technical Textiles and Non-wovens (AFFTTN) , October 1-2, 2013, The Orchid, Mumbai, India.
8. P Jaruhar and J N Chakraborty, 'Substitution of Sodium Sulphide In Dyeing of Cotton by Eco-friendly Enzymatic Reduction', International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT), April 11-12, 2014, NIT, Jalandhar, India.
9. J N Chakraborty and Vivek Sharma, 'Fluorescent Colourants enhancing Aesthetics and Functionality', International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT), April 11-12, 2014, NIT, Jalandhar, India
10. J N Chakraborty and Priyadarshi Jaruhar, 'Dyeing of cotton with sulphur dyes using alkaline enzymes as alternate reducing systems', Accepted for oral presentation at AATCC International Conference during April 19-21, 2016 at Williamsburg, Virginia, US

National Conferences

1. R B Chavan, S Jahan and J N Chakraborty, 'Innovations in dyeing of cotton with Indigo', Environmental issues: Technology options for Textile Industry, IIT, Delhi, 6-7<sup>th</sup> November, 1998.



2. J N Chakraborty and R B Chavan, '*Dyeing of Cotton with Vat dyes at room temperature using Iron(II) salt - ligand based reducing systems*', National conference on 'Emerging trends in textile, Fibre & Apparel Engg., Govt. College of Engg & Technology, Berhampore, West Bengal, 18-19<sup>th</sup> March, 2006.

- **Book/Chapter Publications**

Books

Fundamentals and Practices in Colouration of Textiles, 1<sup>st</sup> Ed, 2009  
Woodhead Publishing India, ISBN: 978-81-908-0014-3  
Woodhead Publishing Ltd. UK, ISBN: 978-18-456-9788-4

Fundamentals and Practices in Colouration of Textiles, 2<sup>nd</sup> Ed, 2014  
Woodhead Publishing India: ISBN: 978-93-803-0846-3

Book Chapters

1. Textile design: Principles, Advances and Applications, Editors: Dr Amanda Briggs-Goode and Dr Katherine Townsend, Woodhead Publishing Limited, UK, 2011  
Chapter 2: Designing through Dyeing and Finishing
2. Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of dyes, Volume 1: General aspects of dyeing, Editor: Dr Matthew Clark, Woodhead Publishing Limited, UK, 2012  
Chapter 6: An overview of dye fastness testing  
Chapter-13: Metal complex dyes  
Chapter 14: Sulphur dyes
3. Improving the durability of textiles, Editor: Dr. Patricia A. Annis, Woodhead Publishing Limited, UK, 2012  
Chapter 3: Strength properties of fabrics
4. J N Chakraborty, 'Chapter 22: Dyes, Metal Complex' in Materials: General 1, Ed. Stephen Burkinshaw, Encyclopedia of Color Science and Technology, Ed. Ronnier Luo, Springer Publishing, 2014, New Delhi

- **Research/ Consultancy projects**

1. Technology gap analysis study for the bicycle parts cluster in Ludhiana, Punjab, Funded by DST, New Delhi. Budget: Rs. 10 lakhs
2. Immobilization, Recovery and Reuse of Cellulase Enzyme for Cotton Fabric Bio-Polishing, submitted to CSIR, Budget: Rs. 11 lakhs

- **Event Organized**

1. International Conference on "Futuristic Trends in textiles, December 10-12, 2007 as Conference Chairman and Convener
2. International Conference on "Redefining Textiles: Cutting-edge technology of the future, April 10-12, 2016 as Conference Chairman and Convener

- **Professional Affiliations**

- Senior Life Member: American Association of Textile Chemists & Colorists (AATCC)
- Member: Society of Dyers & Colourists, Bradford, UK
- Life member: The Textile Association, India.
- Life member: Indian Society for Technical Education

- **Research Supervised**

Name of student	Ph D Thesis Title	Year of award of Ph D
Arun Kumar Patra (Part-time)	Studies on Enzyme Applications in Preparatory Wet Processes of Linen	2010
Priyadarshi Jaruhar	Reduction and Application of Sulphur Dyes on Cotton using Enzymes	2014
Guneet Dhiman (Regular/Part-time)	Compatibility of Anti-crease, Anti-microbial and Soil release Finishes for simultaneous application on cotton	2016
Amandeep Kaur (Part-time)	Bio-Finishing of Wool with Immobilised Protease	2016
Shelly Khanna (Part-time)	Application and Characterization of Cyclodextrin assisted Fragrance and Mosquito Repellent Finishing of Textiles with Essential oils	In Progress
Amit Kr Madhu (Part time)	Pretreatment of Cotton using Immobilized Enzymes	In Progress
Veeresh Mudnoor C	Reduction and Application of vat dyes on cotton using enzymes	In Progress
Manu Agarwal	Yet to be decided	In Progress

- **Patents**

NA

- **Admin. Responsibilities**

- Head of Dept:(~6 years) Feb 05, 2005-Sept 03, 2007 and Sept 04, 2009 to Sept 03, 2012
- Institute Purchase Committee Chairman: Since Feb 01, 2015
- Institute Purchase Committee member: 2008-2010
- PIO of RTI Cell: (1 Year) Sept 04, 2012- Sept 03, 2013
- Faculty Advisor, Classroom Infrastructure: (9 years) June 2005-June 2012
- Faculty in Charge: Textile Chemical Processing Lab

- **Award and Honours**

NA