**Research Publications**

- Studies of the hybrid effect in mechanical properties of tencel blended ring-, rotor- and air-jet spun yarns, Journal of Textile Institute, 104 (3) (2013)339, G K Tyagi & A Goyal.

- Influence of twist and blend ratio on characteristics of ring- spun tencel blended yarns, Indian J Fibre Text Res, 38 (2013) 138, G K Tyagi & A Goyal.

- Physical characteristics of tencel-polyester and tencel-cotton yarns produced on ring, rotor and air-jet spinning machines,  Indian J Fibre Text Res, 38 (2013) 230, G K Tyagi & A Goyal.

- Low-stress and recovery characteristics of tencel blended ring, rotor and MJS yarns, Indian J Fibre Text Res, 38 (2013) 331, G K Tyagi & A Goyal.

- Impact of plying on the physical properties of vortex and other spun yarns, J Inst Eng India, 97 (2016) 107, S Dhamija, et al.

- Effect of ply twist factor on hairiness and unevenness of two plied cotton yarns made of different spinning technologies, J Inst Eng India, 98 (2017) 33, S Dhamija, et al.

- Evenness and hairiness properties of viscose MVS yarns in relation to some m/c and process parameters, Deshdeepak, Rajeev Kumar Varshney and Sudershan Dhamija, International J Text and Fashion Technology, 7 (2017) 21, S Dhamija, et al.

- Effect of MVS process parameters on knitted fabric characteristics, Indian J Fibre Text Research, 43 (2018) 330, S Dhamija, et al.

- Electrochemical bleaching of cotton, Indian J Fibre Text Research, 41 (2016) 217, D Das, et al.

- Developments in application of enzymes for textile processing, Journal of Cleaner Production, 145 (2017) 114, A Madhu, et al.

- KMnO4 Pre-treatment of Linen, Journal of Textile Institute, 105 (2014) 520, A Madhu, et al.

- Sulphur dyeing with optimized reducing sugars, Asian Dyers, 10 (2013) 45, A Madhu, et al.

- Sulphur dyeing using non-sulphide reducing agents, Journal of Textile Apparel & Textile Management, 7 (2012) 1, A Madhu, et al.

- Recover of α-amylase enzyme for cotton fabric desizing using immobilization, Research Journal of Textile & Apparel, 10 (2017) 52, A Madhu, et al.

- Effect of process variables on button pull-out strength of buttons, Journal of Textile Association, 76 (2015) 102, S Khanna, et al.

- Enzymatic functionalization of wool for felting shrink-resistance, [Journal of Natural fibers](https://www.tandfonline.com/toc/wjnf20/current), 13 (2016) 4, A Kaur, et al.

- On aroma finish using vanillin on cotton based home textiles, Daffodil International University Journal Of Science &Technology, 10 (2015) 12, S Khanna, et al.

- Interactions of sewing variables, Journal of Textile and Apparel, Technology and Management, 9 (2015) 3, S Khanna, et al.

- Optimal test case generation in mutation testing-A hybrid artificial bee colony penguin search optimization (ABC-PeSO) approach, Journal of Engineering and Applied Sciences (Scopus index), 12 (2017) 6635, Mukesh Kumar, et al.

- Distributed data mining and multi-agent technology-an integrated approach, International Journal of Computer Science and Technology, 3 (2012) 447, Mukesh Kumar, et al.

- Comparing nature propelled meta-heuristic mutation testing technique, International Journal of Latest Technology in Engineering Management and Applied Sciences, 6 (2017) 122, Jyoti Choudhary, et al.

- An enhanced JPEG steganography scheme with encryption technique, International Journal of Computer and Electrical Engineering, 2(2010) 924, Anil Kumar, et al.

- Anatomy of data breaches and its impact on security, International Journal of Science and Research, 4 (2015) 2549, Monika Sharma, et al.

- D-MMLQ algorithm for multilevel Queue scheduling, International Journal of Computer Science and Network Security, 14 (2014) 227, Akhil Kaushik, et al.

- Stream encryption standard for digital images (SES), International Journal of Computer and Electrical Engineering, 3 (2011) 240, Satvika, et al.

- New cryptographic hash algorithm to secure steganography file, International Journal of Computer, Electronics and Electrical Engineering, 2 (2012) 10, Nidhi Sharma, et al.

- Photonic crystal fiber-A novel medium for light propagation, International Journal of Advanced Research in Science & Engineering, 3 (2014) 159, S Khatak, et al.

- Effects of varying the parameters on super continuum in PCF, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, 3 (2014) 12058, S Khatak, et al..

- Governance system for failure anticipation in hybrid/optical networks, International Journal of Advanced Research in Engineering and Technology, 7 (2018) 68, S Khatak, et al.

- Emerging prospects of photonic crystal fibers, International Journal of on Future Revolution in Computer Science & Communication Engineering, 4 (2018) 178, S Khatak, et al.

- Diversion management in photonic crystal fibers, International Journal of Electronics Engineering, 10 (2018) 146, S Khatak, et al.

- Propagation of femtosecond pulses in single mode fibers with dispersion and higher order nonlinearity, International Journal of Advanced Research in Engineering and Technology, 9 (2018) 45, S Khatak, et al.

- A green and efficient protocol for the synthesis of chalcone of 3-aetyl pyridine using grinding technique, International Journal of Scientific Research, 10 (2015) 50, R Sharma, et al.

- Reliability and availability analysis of datse system with standby unit provided by the system provider, International Journal of Soft Computing and Engineering, 3 (2013) 235, S Singh, et al

- Analysis of 2-out-of-3 unit ash water pump system with confidence limits for failure rate, International Journal of Mathematics and Computation, 23 (2014) 46, A Manocha, et al.

- Stochastic analysis of a two-unit Ccld standby system with arbitrary distribution for life, repair and wring times, International Journal of Performability Engineering, 11 (2015) 293, A Manocha, et al.

- Stochastic and cost benefit analysis of a two-unit hot standby database system, International Journal of Performability Engineering, 13 (2017) 63, A Manocha, et al.

- A study of service quality determinants in life insurance sector, Research Review International Journal of Multidisciplinary, 3 (2018) 622, S Tanwar, et al.

- Customers perception towards marketing strategies adopted by Indian telecom companies, TRANS Asian Journal of Marketing & Management Research, 7 (2018) 4, V K Kaushik, et al.

- Service quality factors stimulating customer satisfaction in e-banking, International Journal of Advances in Arts, Sciences and Engineering, 7 (2018) 1, V K Kaushik, et al.

- Role of the price discrimination for determining the demand: A special reference for TV advertisement broadcasting industry, South Asian Journal of Marketing & Management Research, 7 (2017) 35, S Tanwar, et al.

- Customer perception on retail service quality: The case of food and grocery retailing, FIIB Business Review, 4 (2015) 46, S Tanwar, et al.

- Students perception on service quality: The Case of Engineering Institutions, International Scholarly Research Journal for Interdisciplinary Studies, 1 (2016) 114, S Tanwar, et al.

- Measuring retail service quality, customer satisfaction, and behavioural intentions in organised retail sector, DIAS Technology Review- The International Journal of Business & IT, 9 (2013) 17, S Mittal , et al.

- Assessing the gender influence on perception of service quality: A study of shop-in-shop in India, International Journal of Marketing and Business Communication, 1 (2012) 269, S Tanwar, et al.

- Corporate power and politics at strategy implementation in Indian companies, JIM QUEST, Journal of Management and Technology, (2012)14, S K Sharma & Sunita Bharatwal.

- TQM: A needed catalyst for the corporate in changed business scenario, Kangleipak Business Review, 7 (2013) 20, Monika Sharma & S K Sharma.

- Techniques of strategic evaluation and control in practices-A case of Indian companies, International Journal in Management and Social Science, 5 (2017) 1, S K Sharma & Sunita Bharatwal.

- Strategic evaluation and control in Indian companies, Journal of Advance Management Research, 6 (2018) 52, S K Sharma & Sunita Bharatwal.

Papers Presented in Conference/Seminars

- Rishi P Jamdagni, Saumen Bhattacharyya & N Kumar, Characterisation of water vapour transmission behaviour of woven fabrics, Paper presented at 8th International Conference TEX SCI’13, Technical University of Liberec, Liberec, Czech Republic, Sept. 23-25, 2013.

- Suman Bhattacharyya, Response of thermo-physiological comfort properties of polyester-modal blended fabrics to chemical finishing, Paper presented at 8th International Conference TEX SCI’13, Technical University of Liberec, Liberec, Czech Republic, Sept. 23-25, 2013.

- V K Kaushik, Paper presented at Academy of Management Conference, Florida, USA, 10th August, 2013.

- S Dhamija and Saumen Bhattacharyya, Assessment of Heat and Moisture Management Properties of Clothing Material, Paper presented at International Conference on Fashion, Apparel and Textile 2016, Amity University NOIDA, India, 3rd & 4th March, 2016.

- Amal Chowdhury, Innovation in polymers and fibres for active sportswear, Paper presented at National Conference on FASHION APPAREL & TEXTILE (NCFAT 18) Theme: Innovation & Entrepreneurship A path for growth of Fashion & Textile Industry, Amity School of Fashion Technology, AUUP, 27th March, 2018.

- V K Kaushik, Paper presented at 9th International Human Resources Management, Tallinn, Estonia, June, 2005.

**In addition to above the following faculty members have also carried out PhD research at the Institute over the last few years.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Scholar** | **Title of Research** | **Year** | **Guide** |
| Dr Yamini Jhanji | Studies on comfort properties of polyester-cotton plated knit structures. | 2015 | Dr V K Kothari  IIT Delhi |
| Dr Amandeep Kaur | Bio-finishing of wool immobilized. | 2016 | Dr J N Chakravarty  NIT, Jalandhar |
| Dr Manoj Nanda | A comparative study of the poetries of William Wordsworth and Sumitranandan. | 2017 | Dr A B Sharma  IGNOU Delhi |
| Dr Shelly Khanna | Application and characterization of B-cyclo dextrin assisted fragrance and mosquito repellent finishing of textiles with essential oils. | 2018 | Dr J N Chakravarty  NIT, Jalandhar |
| Dr Gopal Krishan | Advanced intelligent approaches for Robotic manipulator path tracking. | 2018 | Dr V R Singh  PDM, Bahadurgarh |

**Sponsored Projects**

**A few prominent Government Sponsored Projects carried out at the Institute are given below.**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Project Title** | **Sanctioning Authority** | **Year** |
| 1. | A study on translation of fibre properties into blended yarns properties: ring-,rotor- and MJS yarns | All India Council for Technical Education, New Delhi | 2007 |
| 2. | Modernisation of weaving lab (MODROBS) | All India Council for Technical Education, New Delhi | 2007 |
| 3. | Objective evaluation of singeing efficiency by digital image processing | All India Council for Technical Education, New Delhi | 2009 |
| 4. | Development of environment friendly flame resistant protective textile for civil & defence application | Defence Research and Development Organisation, Ministry of Defence, Govt. of India | 2009 |
| 5. | Modernisation of removal of obsolescence in technical education for Textile Chemistry Lab. (MODROB) | All India Council for Technical Education, New Delhi | 2011 |
| 6. | Development of colourimetric accurate imaging systems for textile (RPS) | All India Council for Technical Education, New Delhi | 2013 |
| 7. | MODROBS of fashion and apparel engg. laboratory for PG students | All India Council for Technical Education, New Delhi | 2013 |
| 8. | Mathematical Modelling - the earth | University Grants Commission, Delhi | 2015 |

**Consultancy**

**Consultancy work not only enhances the industry linkage and reputation of the Institute but also fosters research through funds and support. The Institute thus encourages consultancy besides regular academic work. A few of the consultancy works carried out by the faculty of the Institute over the last few years are as given below.**

- Design and development of low cost carding machine for the weavers of NAMDAH CRAFT in  "Technology Intervention for Sustainable Development of Traditional Namda Craft, Tonk, Rajasthan” under Department of Science and Technology, Govt. of India, 2016.

- Design and development of High Performance, multifunctional sportswear for various sports under technical textiles project, WRA, under Ministry of Textiles, Govt. of India, 2016.

- Technology gap analysis study in textile cluster in Panipat region under TIFAC, Department of Science and Technology, Govt. of India, 2013.

- Technology gap analysis study in readymade garment cluster in NCR region under TIFAC, Department of Science and Technology, Govt. of India, 2011.

- Skill training for employment in jute sector (SEJS) under Ministry of Rural Development with TECHNOPAK, 2010

- Apparel manufacturing operator training under AMRIT with WAZIR ADVISORS, supported by Ministry of Rural Development, Govt. of India, 2010.