



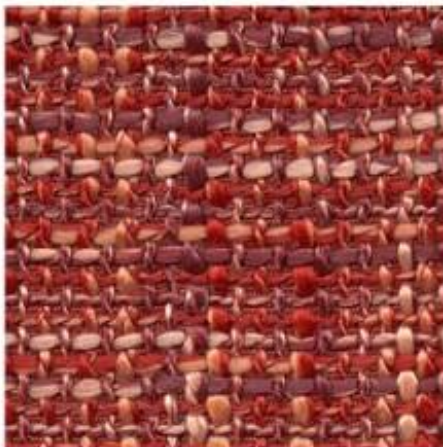
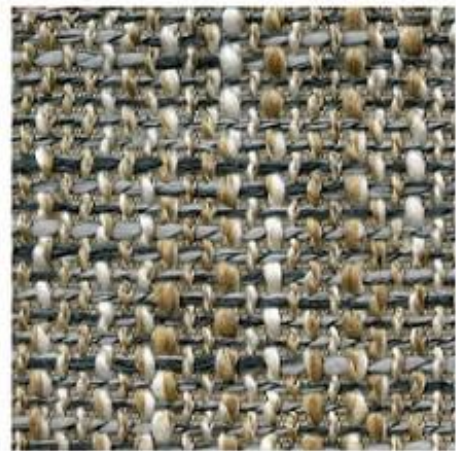
KUMARAGURU
college of technology
character is life

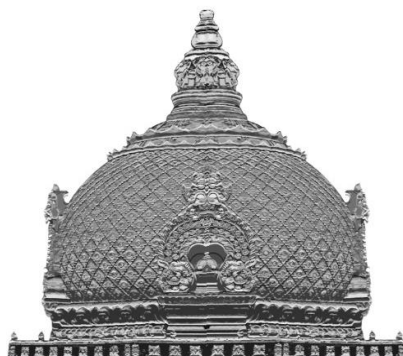
DEPARTMENT OF TEXTILE TECHNOLOGY

NEWSLETTER

July – Dec 2020

Volume 1 - Issue 2





INSTITUTION

VISION

The vision of the college is to become a Technical University of International Standards through continuous improvement.

MISSION

Kumaraguru College of Technology is committed to providing Quality Education and Training in Engineering and Technology to prepare students for life and work equipping them to contribute to the technological, economic and social development of India. The College pursues excellence in providing training to develop a sense of professional responsibility, social and cultural awareness and set the students on the path to leadership.

DEPARTMENT

VISION

To be a Centre of Excellence in Textile Technology and Management with basic and applied research for the fulfilment of societal needs.

MISSION

- Develop industry relevant curriculum, innovative teaching and project-based learning methods that enables students to be efficient professionals.
- Motivate Faculty to update their knowledge and skills through continuous learning.
- Provide holistic student development by creating opportunities for lifelong learning and to develop entrepreneurship skills.
- Undertake inter-disciplinary research and development/ Internship/Consultancy in the field of Textile Technology to support the industry and society.



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FACULTY ACTIVITIES

Faculty as Resource person

Dr.V.Ramesh Babu acted as Resource person and Delivered lecture on topic Fashion Retailing in AICTE Sponsored STTP on Fashion Forecasting and Trend Analysis organized by Bannari Amman Institute of Technology on 17.09.2020, 24.09.2020 and 10.10.2020.

Dr.V.Ramesh Babu acted as Resource person and Delivered Lecture on “Overview of Healthcare Textiles and Apparels” at AICTE Sponsored STTP on “Impact of polyphenols in enzyme inhibition and formulation of healthcare apparels”, organized by Dept of Biotechnology and Textile Technology, KCT, on 17.09.2020, 24.09.2020 and 17.09.2020

Dr.V.Ramesh Babu acted as Resource person and Delivered Lecture on Reshaping Apparel Industry through Automation in AICTE Sponsored FDP on Future of Fashion: AI,IOT,AR, VR, Robotics,Sensors and Big Data Analytics, organized by Sona College of Technology, Salem on 12.10.2020 and 21.12.2020

Dr.V.Ramesh Babu acted as Resource person delivered lecture on Retail Merchandising organized by VR Consultancy Tamil Nadu on 02.08.2020

Dr.S.Sundaresan Delivered acted as Resource person and Delivered lecture Advanced Fabric Production and Industry Preparedness in department of Textiles and clothing, Avinashilingam deemed university on 21.12.2020

Dr.V.Ramesh Babu acted as Resource person and delivered lecture on Writing a winning proposal for AICTE-STTP on Advances in Apparel Manufacturing Technology organized by Dept of Fashion Technology, Sona College of Technology, Tamil Nadu on 20.8.2020

Dr.V.Ramesh Babu acted as Resource person delivered lecture on Scope of Handloom Industry In India, organized by Holy Cross Home Science College, Dept of Fashion Design and Apparel Making, Thootukudi. on 07.08.2020

R.Sukanya Devi acted as Resource person and Delivered Lecture on Advanced oxidation processes in treating wastewater in an on-line Short-Term Training Course on “Green technologies to treat solid wastes and wastewaters from industries" organized by Department of Biotechnology, Kumaraguru College of Technology, Coimbatore on 12.08.2020.

FACULTY ACTIVITIES

Ph.D. VIVA VOCE EXAMINATION

Ph.D Viva Voce Examination for M. SARAVANAN (AP II) was conducted on 14.08.2020 at Department of Textile Technology, Kumaraguru college of Technology.

Title of the Thesis:

- **Development of Eco friendly Antibacterial and Flame-Retardant Home Textiles**
- Prof. R. V. Adivarekar, Ph.D.(Tech.), FTA (Honorary), Professor in Fibre Chemistry & Head, Department of Fibres and Textile Processing Technology, Institute of Chemical Technology, N P Marg, Matunga, Mumbai 400019 and Dr. S. Thambidurai, Professor, Department of Industrial Chemistry, Alagappa University, Karaikudi-630 003, Tamilnadu, India were the Examiners.
- Dr. Bhaarathi Dhurai, Department of Fashion Technology, Supervisor conducted the viva voce proceedings.

AWARDS RECEIVED BY FACULTY

- Dr.M.Saravanan received Best Young Faculty Award from Kumaraguru College of Technology on 05.09.2020
- Dr.M.Dhinakaran received Engal Asan Award from Kumaraguru College of Technology on 05.09.2020

AWARDS APPLIED BY FACULTY

- Dr.V.Ramesh Babu applied Research Excellence Award- (Teaching Faculty) from IEI BLC-FCRIT Research and Academic Excellence Awards 2021
- Dr.M.Saravanan applied IEI Young Engineers Award 2020-21 from The Institution of Engineers (India).



Packtech



Hometech



Clothtech



Oekotech

FACULTY ACTIVITIES

WORKSHOP/FDP ATTENDED

- S.Natarajan and Dr.M.Dhinakaran attended One day online Workshop on "Shine Yourself" 26-09-2020 conducted by KLDA, Kumaraguru College of Technology
- R.Sukanya Devi attended AICTE sponsored STTP on "Wastewater Treatment and characterization techniques - Hands on experience" from 19.10.2020 to 24.10.2020 conducted by Manipal Institute of Technology, Manipal, Karnataka
- S.Ariharasudhan attended AICTE sponsored STTP on "Writing and Publishing High impact Research Publications and Scientific Documents" from 05.10.2020 to 10.10.2020 conducted by Rajalakshmi Engineering College, Chennai
- R.Sukanya Devi attended Two days International webinar on materials research from 07.10.2020 to 08.10.2020 conducted by Sri Ramakrishna Engineering College, Coimbatore
- Dr.M.Dhinakaran, P.Chandrasekaran, Dr.V.Ramesh Babu and Dr.S.Sundaresan attended Guest lecture on "Garment costing and home textiles" on 9.11.20 conducted by Department of Textile Technology, Kumaraguru College of Technology.
- S.Natarajan and P.Chandrasekaran attended AICTE sponsored FDP on "Future of Fashion: AI, IoT, AR, VR, Robotics, Sensors and Big Data Analytics" from 14.12.2020 to 26.12.2020 organized by Sona College of Technology, Salem
- S.Natarajan, R.Sukanya Devi and P.Chandrasekaran attended AICTE sponsored STTP on "Impact of polyphenols in enzyme inhibition and formulation in healthcare apparels" from 03.08.2020 to 08.08.2020 organized by Department of Textile Technology, Kumaraguru College of Technology.



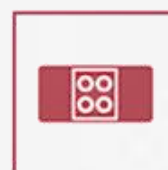
Sporttech



Geotech



Indutech



Medtech



RESEARCH

PAPERS PUBLISHED BY FACULTY

- R.Sukanya Devi, Noise Reduction in Shuttle Loom, International Journal for Modern Trends in Science and Technology, 6(9S): 132-135, 2020
- Dr.M.Dhinakaran, “An Investigation of Air Vortex Yarn with Different Blend Proportion” International conference ICATT-2020, Bannari Amman Institute of Technology conducted from 24.10.20 to 25.10.20.
- R.Sukanya Devi, “Electro - chemical coagulation treatment for the degradation of reactive blue 25 dye effluent using different electrodes”, AIP Conference Proceedings 2270, 060006 (2020);
- Dr.S.Sundaresan, Textiles in “Battery Separators-Technical Textiles -Innovation, Technology, Application”, Melliand International, October 2020
- Dr.S.Sundaresan , “Chitosan-Manuka honey composite wound dressings”, Melliand China/2020.1/41 to 42
- Dr.V.Ramesh Babu “Effect of Stitch Density and Stitch Type on the Moisture Management Properties of Seams for High Active Sportswear Application, Fibres and Textiles in Eastern Europe,28,6(144),72-78.DOI: 10.5604/01.3001.0014.3263
- Dr.D.Saravanan, “Comparative Study on the Coir Yarn Spinning Processes”, Tierärztliche Praxis, 2020, Vol. 40, No. 8, 1277 – 1285

RESEARCH GRANT

- **Mrs. R.Sukanya Devi** as Principal Investigator received grant of Rs.19.75 lakh for the Research project on “Ecofriendly cost-effective silk dyeing technology for rural women upliftment in Sirumugai weaving cluster” funded by DST - SEED Women upliftment

PATENT

- Patent was filed on “Automated Scrubber Device and method thereof” by R.Sukanya Devi

RESEARCH

PAPERS REVIEWED BY FACULTY

Dr.V.Ramesh Babu

- “Modeling Supply Chain Sustainability-related Risks and Vulnerability: Insights from the Textile Sector of Pakistan”, AUTEX
- “Reduction Of Non-Conformance Production Quality Through Process Control Charts In Textile Industry”, AUTEX
- “Deformation recovery properties of fabrics in a clothing care machine”, Textile Research Journal
- “Modeling Supply Chain Sustainability-related Risks and Vulnerability: Insights from the Textile Sector”, AUTEX
- “Enhanced moisture management ability of electrospun nanofiber/cotton composite yarn-based fabrics”, Textile Research Journal

Dr D Saravanan

- Investigation into Stretchability and Dynamic Response of Polymer-coated Wrapped Yarns for Real-time Monitoring of Skin Temperature”, Textile Research Journal
- “Evaluation of the crimp formation-ability

of side-by-side PLA/PTT bicomponent fibers”, Textile Research Journal

- “Multifunctional Finishing Woolen Containing Fabrics Using Synergizing effect of Poly quaternary Ammonium Salts and Metal Oxides Nanoparticles”, Indian Journal of Fiber and Textile Research
- “Multifunctional Finishing Woolen Containing Fabrics Using Synergizing effect”, Indian Journal of Fiber and Textile Research

Dr.M.Dhinakaran

- “Hybrid PTFE-glass hierarchical braided/epoxy composites with self-lubricating and high tribological performance”, Journal of Industrial Textile



Protech



Agrotech



Buildtech



Mobiltech

RESEARCH

PAPERS REVIEWED BY FACULTY

Dr.S.Sundaresan

“Identification of Dynamic Contact Parameters between Contact Roller and Filament Package”, Textile Research journal

“Sound absorption mechanism of composite nanofiber membrane and the application in maternity clothing”, Journal of Industrial Textiles

“Sound absorption mechanism of composite nanofiber membrane and the application in maternity clothing”, Journal of Industrial Textile

“Effective treatments for enhancing the carbon fiber/epoxy interfacial properties and carbon yarn weavability.”, Journal of Industrial Textile

"Hybrid PTFE-glass hierarchical braided/epoxy composites with self-lubricating and high tribological performance", Journal of Industrial Textile

“Effective treatments for enhancing the carbon fiber/epoxy interfacial properties and carbon yarn weavability”. Textile Research journal

“Studies on needle punched nonwoven fabrics made from natural fiber blends for oil sorbent applications” Journal of Industrial Textiles

“Characterization of the airflow field in the rotor spinning unit based on a novel experimental approach and numerical simulation” Journal of Industrial Textiles

Dr.S.Ariharasudhan

“Construction of a composite filter media through the analysis of binder fibres in cross-laid, needle punched fibrous structure” Journal of Industrial Textiles

“Filtration Performance of Biaxial Circular Seamless Knitted Filter Material Based on Electrostatic Adsorption” Journal of Industrial Textiles

“Effect of moisture condensation on vapour transmission through porous membranes”, Journal of Industrial Textiles

M.Saravanan

“Electrical Conductivity and Mechanical Properties of Multifunctional Cotton Fabrics”, Journal of Industrial Textile

PROGRAMS ORGANISED



Mr AJ Kannan
Consultant
Tortuous Reach
Coimbatore

A webinar was organised on the topic “Technical Textiles High Impact Segment for Driving Economy” on 20.10.2020.. The resource person for the session was KANNAN AJ , Director - Tortuous Reach, Textiles and Nonwovens Coimbatore. 86 students from IV-year, III-year, II year of Textile Technology, Kumaraguru college of Technology, Research scholars from other institutions, faculty members from our institutions attended the webinar. The webinar gave an idea about the Technical Textile processes & Product, right from raw material.

- One Week online Short-Term Training Programme (STTP) entitled “Impact of Polyphenols In Enzyme Inhibition and Formulation of Healthcare Apparels” sponsored by AICTE jointly with the Department of Textile Technology, Departments of Fashion, and Department of Biotechnology Kumaraguru College of Technology, Coimbatore – 641 049 from 12.10.2020 to 17.10.2020 (second slot). Participants from various parts of the country were selected according to the eligibility norms prescribed by AICTE.
- A webinar on “PG life after KCT, Alumni Talks Series” on 21.10.2020, lecture given by Ms.Vaishnavi Muralidharan, Ooty.
- A webinar on “Professional Skill Sets, Alumni Talks Series ” on 27.10.2020, lecture given by Mr.Ganeshkumar, Advanced Clothing Concepts, Coimbatore.
- A guest lecture was organized on the topic “Placement and skills for Jobs, Higher Studies, GATE exam awareness” by Mr. P. Kaleeswaran (UG Alumni), Deputy Manager – Business Excellence, Zen Linen International Pvt.Ltd., Chittoor , Andra Pradesh on 28.08.2020

PROGRAMS ORGANISED



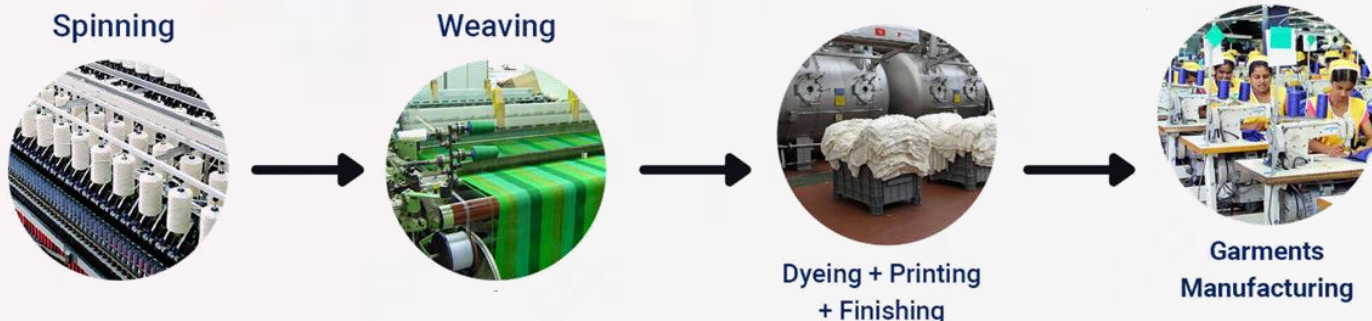
Ms Malarnilaa
Deputy Manager
AJIO Business
(Reliance Retail)
Coimbatore

A webinar was organised on the topic “Basics of Buying and Merchandising” on 27.11.2020. The resource person for the session was MALARNILAA Deputy Manager Ajio Business (Reliance Retail) Coimbatore. 84 the students from IV-year, III-year, II year of Textile Technology, Kumaraguru college of Technology, Research scholars from other institutions, faculty members from our institutions attended the webinar. The webinar gave an idea about the Garment Buying and Merchandising processes and garment Product.

A webinar was organized on the topic “Basics of Buying and Merchandising” on 24.12.2020. The resource person for the session was. Mr Ashokpal Sathiyathan, IE Manager Cum Production Head, Lenny fashions Ltd, (Must corporation, HK) Bangladesh. 50 students from IV-year, III-year, II year of Textile Technology, Kumaraguru college of Technology, Research scholars from other institutions, faculty members from our institutions also attended the webinar. The webinar gave an idea about the Knowledge sharing-Beyond Textile, Fashion industry-2021 case study, motivate young textile /fashion engineers, how can serves to Eco friendly textile.



Mr Ashokpal Sathiyathan
IE Manager Cum
Production Head
Lenny fashions Ltd
Bangladesh



STUDENTS ACTIVITIES



Pravin Amuthan
Senior Merchandiser at
BASK Fashions India (P)
Ltd Coimbatore

A webinar on Garment Printing was organized 06.12.2020 by Textile Technology Association, It was conducted to encourage students to enrich their knowledge on garment printing. It indeed led to new learning & brushing up of basics in printing. The resource person for the session was Pravin Amuthan Senior Merchandiser at BASK Fashions India (P) Ltd Coimbatore. He was a merchandiser at the Immanuel House of Fashion Independent Textile. He completed Garment Merchandising and Fashion Merchandising at Nishanth Institute of Garment Technology. Also, he was a Merchandiser in Bolt Asia India. He is well experienced in Apparel exports, Production, Product Development, Merchandising, Sourcing and Garment Printing

- An online debate event TEX-O-BATE was organized by Textile Technology Association in collaboration with Qubate club of Kumaraguru. The event was conducted on the 1st of November 2020 at 4.00 p.m. This event mainly focused on The Textile Sustainability in India. About 12 students joined the event in which 6 students participated as two different teams where one team spoke for and another team spoke against self-sustainability in manufacturing machinery and fabrics for shuttle less weaving and garmenting industry. Tex-O-Bate was organized by Sufiya Halima A. from Department of Textile Technology and Anirudh from Qubate club of Kumaraguru was the moderator.

STUDENTS PUBLICATION

- S.L.Jhakistan Prasad (17BTT001), R.Sukanya Devi, and P.Kuhan (17BTT012), "Noise Reduction in Shuttle Loom", International Journal for Modern Trends in Science and Technology, 6(9S): 132-135, 2020.DOI: <https://doi.org/10.46501/IJMTST0609S21>
- Baraneetharan K, Kuhan P, Agilesh M S "An Investigation of Air Vortex Yarn with Different Blend Proportion" International conference ICATT-2020, Bannari Amman Institute of Technology conducted from 24.10.20 to 25.10.20.

STUDENTS ACTIVITIES

ACHIEVERS

- Rohith Kumar A took part in the 59th Coimbatore District Athletic Meet - 2019 and secured the First place for Triple Jump held on the 14th of August 2019
- Jagapriya RK, had represented Tamil Nadu, Puducherry and Andaman Nichobar (5(TN)Girls BN) at the Annual NCC Republic Day Camp and the Prime Minister's Rally held at New Delhi from 1st January 2019 to 29th January 2019. She also got the privilege of receiving the overall runner's trophy from our honorable Prime Minister Shri. Narendra Modi.

HIGHER STUDIES

- Naavendhan S (16BTT011), Vijay Venkatraman (16BTT028) and Kavya (16BTT035) have joined M.Tech. Textile Technology programme at PSG College of Technology, Coimbatore
- Karthikeyan (16BTT021) has joined MBA programme at PSG School of Management, Coimbatore



B.TECH (TEXTILE TECHNOLOGY)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates of B.Tech Textile Technology programme will

- **PEO: 1** Hold leadership responsibilities in Textile and related segments such as product development, production, technical services, quality assurance and marketing.
- **PEO: 2** Become successful entrepreneur in Textile and related field and contributing to societal, technological and industry development.
- **PEO: 3** Partake professional qualifications/ certifications in Textile Technology related areas by pursuing specialized studies in engineering and business.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

Engineering Graduates will be able to:

- **PSO1:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization for Process Optimization, Cost and Value analysis, Productivity improvement, Solutions to quality issues and Product development in textile and related fields.
- **PSO2:** Demonstrate learned techniques, experiments, modern engineering tools and software to estimate the optimum utilization resources such as raw materials, machineries, manpower and to predict the properties of fibre, yarn, fabric and garments as per the end uses.

EDITORS

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Assistant Professor, Textile Technology

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