



**K.S.RANGASAMY COLLEGE OF TEXCHNOLOGY**  
(AUTONOMOUS)  
TIRUCHENGODE -637215. TAMILNADU. INDIA

## DEPARTMENT OF TEXTILE TECHNOLOGY



**NEWS SQUASH**

June - November

**2019 - 20**

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# **-NEWS SQUASH-**

## **2019-20**

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## HoD 's DESK



**Dr .G. KARTHIKEYAN,** Head of the Department

The Department of Textile Technology, established in 1994, is committed to providing students with a comprehensive understanding of textile manufacturing through both undergraduate program. Our experienced faculty and state-of-the-art laboratories offer a supportive environment that fosters academic excellence. The department provides students with valuable opportunities for industrial exposure, enhancing their practical knowledge in line with industry standards. We are also proud to announce that the B.Tech in Textile Technology undergraduate program has received accreditation from the National Board of Accreditation, Tier-1 Category.

It is my privilege, on behalf of the faculty and students, to present this edition of NEWS SQUASH (Volume 5, Issue 1) for the academic year 2019-20. This bi-annual publication, covering activities from June to November (2019-20), showcases the accomplishments and contributions of our faculty, students, and alumni. In addition to highlighting research and department events, this newsletter serves as a communication platform to engage faculty, industry professionals, alumni, and other stakeholders in the field of Textile Technology.

I would like to extend my heartfelt gratitude to all contributors for their dedication in bringing this newsletter to fruition. We hope you enjoy reading it and learning more about the department's achievements, vision, mission, program educational objectives, and program-specific outcomes.



## VISION AND MISSION



### VISION OF THE DEPARTMENT

To be the centre of excellence in textile education, training, research and service.

### MISSION OF THE DEPARTMENT

- To enlighten the students about the latest technology in textile industries through innovative educational practices and multi-disciplinary approach.
- To engage with the industry as solution providers through consultancy.

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

**PEO1: Production Process and Solutions to Problems:** Graduates are competent in textile production processes and be able to identify problems and suggest suitable solutions.

**PEO2: Modern Tools & Technology and Ethics:** Graduates use latest tools and technology for the production of textile materials and serve society in an ethical manner.

**PEO3: Skills, Entrepreneurship and Life Long Learning:** Graduates will exhibit skills in their career and develop entrepreneurial culture through life-long learning.



## **PROGRAMME OUTCOMES (POs)**

Engineering Graduates will be able to:

**PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3: Design /development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations

**PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.

**PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



**PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**PROGRAMME SPECIFIC OUTCOMES (PSOs):**

Engineering Graduates will be able to:

**PSO1: Application of Basic Concepts:** Apply fundamental concepts in the areas of spinning, weaving, testing, garment making and processing.

**PSO2: Solution for Industrial Problems:** Solve industrial problems in textile industries considering environmental issues to improve quality and productivity.

**PSO3: Moral Values:** Demonstrate social and ethical responsibilities relevant to textile industries.

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## PROGRAMS ORGANIZED

### **Webinar**

#ksrct1994, Department of Textile Technology is organizing a Webinar on "Merchandising in the Garment Industry" by Dr. Velumani, Founder & Principal Coach, Dream Factory, and Managing Director, C.A. Textile Lab, Erode, on 01.08.2019.

### **Workshop**

#ksrct1994, Department of Textile Technology is organizing a Workshop on AI by G. Praveen, AI Designer Trainee, Texvalley, Erode, on 08.08.2019.

### **MoU Signing Ceremony**

#ksrct1994, Department of Textile Technology has signed an MoU with AIC NIFT TEA TEKIC SIDCO, Tamil Nadu, on 27.11.2019.

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## **FACULTY ACTIVITIES:**

1. Dr. G. Karthikeyan, Professor, and Mr. T. Karthikeyan, Assistant Professor, participated in the Faculty Development Program on Entrepreneurship Development in Technical Textiles – Products & Technologies at PSG College of Technology, Coimbatore, on 14.09.2019.
2. M. Arunkumar and G. Devanand, Assistant Professors, participated in the National Seminar on the Rural Immersion Camp organized by the Biotechnology Department from August 19, 2019, to August 23, 2019.
3. Dr. O. L. Shanmugasundaram, Associate Professor, presented a paper on "Recycle and Reuse of Treated Wastewater in Industries" at an international conference held at the Indian Institute of Science, Bangalore, from 24.09.2019 to 27.09.2019.
4. Dr. G. Karthikeyan, Professor and Head of the Department, participated in the Faculty Development Program on "Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems Using the Internet of Things" organized by the Department of Biotechnology from 28.08.2019 to 29.08.2019.D
5. Dr. G. Karthikeyan, Professor and Head of the Department, received a Certificate of Appreciation from AICTE-Internshala for securing an All India Rank of 190 out of 2830 colleges participating in Internship Day 2019.
6. Dr. G. Karthikeyan, Professor, and Mr. T. Karthikeyan, Assistant Professor, participated in the Faculty Development Program on "Entrepreneurship Development in Technical Textiles – Products & Technologies" at PSG College of Technology, Coimbatore, on 14.09.2019.
7. Dr. M. B. Sampath, Professor, and Mr. G. Devanand, Assistant Professor, participated in the Faculty Development Program on "Emerging Scenario in Textile and Fashion" at K.S.R. College of Arts and Science for Women on 21.09.2019.
8. Dr. G. Karthikeyan, Professor, Mr. T. Karthikeyan, Mr. M. Arun Kumar, and Mr. G. Devanand, Assistant Professors, participated in



the Faculty Development Program on "Application of Industrial Engineering Concepts in the Apparel and Textile Industry to Improve Productivity & Quality of Apparels" at Kumaraguru College of Technology, Coimbatore, from 16.11.2019 to 30.11.2019.

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## STUDENTS ACTIVITIES:

1. S. Shabareesh (III Year), S. Prasanna (IV Year), and A. Raajakkamal (IV Year) participated in the Student Induction Programme (SIP) 2019 from 29.07.2019 to 14.08.2019.
2. A National Seminar on "Emerging Scenario in Textile and Fashion"

S. No.	Name of the Student	Year	Date	Name of the Event	Organizer	Prize won / Participation
1	S. MohanBabu G. Gowtham P.P. Dharshan S.P. Sasikumar R. Pradeep Kumar V. Manikandan D. Rohit R. Nivesh K. Sathiswaran K. Ajay K. Dinesh M. Vanjlkumar S.A. Hariprasath G. Nithish Kumar T. Naveen Kumar S. Gokul G. Gopinath S. Sarayu Pragadeesh S. Dinesh	III	21.09.19	A national Seminar on "Emerging Scenario in Textile and Fashion"	KSR College of Arts and Science for women	Participation
2	R. Jithu K. Saravanan	IV	14.09.2019	Entrepreneurs hip Development Program on Technical Textiles- Products & Technologies	PSG College of Technology, Coimbatore.	Participation
3	S. Kowsalya S. Sarayu Pragadeesh	III	26.09.2019 & 27.09.2019	Poster Presentation	SSM College of Engineering, Komarapalayam	Participation
4	S. Kowsalya S. Sarayu Pragadeesh	III	26.09.2019 & 27.09.2019	Dr. Colorist	SSM College of Engineering, Komarapalayam	Second
5	S. Kaviya S. Sarayu Pragadeesh B. Jeevananthan	III	26.09.2019 & 27.09.2019	Paper Presentation	SSM College of Engineering, Komarapalayam	Participation
6	S. Kowsalya	III	26.09.2019 & 27.09.2019	Manuscript	SSM College of Engineering, Komarapalayam	First
7	S. Kowsalya S. Sarayu Pragadeesh	III	26.09.2019 & 27.09.2019	Paper Presentation	SSM College of Engineering, Komarapalayam	Second
8	T. Naveen Kumar	III	26.09.2019 & 27.09.2019	Technical Quiz	SSM College of Engineering, Komarapalayam	Second
9	T.Vishnu C.M. Praneshkumar	III	04.10.19	TEXMINAR 2019	IIHT. Salem	Participation

### **Chief Editor**

Dr. G. Karthikeyan  
Head of the Department

### **Editors**

Mr. M. Arunkumar  
Assistant Professor

### **Industrial Profession**

Mr. T. Sureshram  
Proprietor  
Care 4 U India Pvt. Ltd  
Tirupur