

Bapuji Educational Association



**Bapuji Institute of Engineering and
Technology, Davangere**

Department of Textile Technology

TEXTILE VOICE: Newsletter



Volume-1

Issue-1

August 2018-July 2019



Welcome to 3rd Sem Students. Chief Guest: Dr G.T. Govindappa, Rtd. Professor of Commerce, Davangere University on 7-9-2017

Inaugural Function of Textile Engineering Forum



Vision of the Institute

To be a center of excellence recognized nationally and internationally, in distinctive areas of engineering education and research, based on a culture of innovation and invention

Mission of the Institute

BIET contributes to the growth and development of its students by imparting a broad based engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values

Vision of the Department

To be the center of excellence in textile education, besides serving the society by undertaking various innovative research, industry and society related activities.

Mission of the Department

- To impart the basic science, engineering, textile, garment and fashion education for the growth and development of the students by providing effective teaching and learning processes*
- To impart practical/research knowledge through industrial training and projects*
- To empower the students with positive approach and presentation skills by conducting workshops and conferences*
- To inculcate ethical values of various virtues, which enable them to become successful textile technologists and good citizens of the nation.*

Program Educational Objectives:

The PEOs of the program are

- PEO1: Graduates of the program will have successful career in manufacturing, quality assurance, product development and technical sales segments of textile industry*
- PEO2: Graduates can inculcate research capabilities in various textile technology fields to innovate new products and adopt themselves in the world of constantly evolving technology*
- PEO3: Graduates will apply acquired knowledge in solving technological challenges of the textile industry.*

- **PEO4:** *Graduates will exhibit entrepreneurship, leadership quality, team work and incorporate societal needs to practice their profession with high level of legal and ethical responsibilities*

Program Outcomes (POs)

Department of Textile Technology Graduates will be able to acquire:

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.*
- 2. 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.*
- 3. 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.*
- 4. 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.*
- 5. 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.*
- 6. 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.*
- 7. 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.*
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.*
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.*

10. 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.*

11. 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.*

12. 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.*

Program Specific Outcomes (PSOs)

PSO1: *The students will be capable of designing and developing various textile products and controlling and improving the various manufacturing processes and quality of textile products.*

PSO2: *The students will be able to communicate their ideas, findings, and knowledge through project work, technical publications, technical conferences etc.*

FROM THE DESK OF HOD

Textile industry in India is heading towards radical change aiming at remarkable progress and development. In order to cater to the utmost needs of this industry, a great responsibility lies on the technical institutions, which imparts textile education in shaping the technocrats to give their best.

Spread over a wide area, the department houses well equipped modern spinning, weaving, chemical processing, Garment and testing laboratories. The courses offered by the department are: B Tech, M Tech in Textile Technology and Ph.D. (By research).

The department has highly qualified faculty and state of the art CAD/CAM lab with internet facilities. The CAD/CAM lab houses in it the latest Dobby, Jacquard, 3D Garment and Printing software, the state of the art Garment Design Software, Digitizer, Plotter (TUKATECH) with 5KV UPS on high speed millennium and XP edition computer systems. The department has excellent placement activities resulting in 100% placement for our graduates in top rated multinational textile and garment manufacturing industries in the country.

Apart from excellent placement, our students are encouraged to undertake industry oriented projects in their final year which help them to acquire research ideas which inturn help them to get admission for higher studies abroad. Many of our students have secured admission for M.S programmes in Top Universities in UK, USA, France, Italy, Hong Kong and other countries.



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Assistant Professor

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Girish, 4th year

Nitish , 3rd year

Swaroop and Veeresh , 2nd year

Bhaskar, 1st year

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DEPARTMENT OF TEXTILE TECHNOLOGY

TEACHING FACULTY



Dr. K Murugesh Babu
Prof. & Head



Dr. K. B Ravindra
Associate Prof.



Dr. Y N Dinesh
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Dr. SM Chandrasekhara
Asst. Prof.



Mr. M C Patel
Senior Faculty

NON - TEACHING SUPPORTING STAFF



Basavarajaiah
Fitter



K Jagadeesh
Foreman



P M Channabasamma
Peon



M B Nagaraj
Lab assistant



**Shanmukhaiah
Peon**



**Tayappa
Peon**

TEACHING FACULTY

SL. NO	NAME	DESIGNATION
1	Dr. MURUGESH BABU K.	PROF. & HEAD
2	Dr. RAVINDRA K. B,	ASSOC. PROF.
3	Dr. RAMESH S. N.	ASSOC. PROF.
4	Dr. DINESH Y. N.	ASST. PROF.
5	Dr. CHANDRASEKHARA S.M.	ASST. PROF.
6	NANDIKOL S. S.	ASST. PROF.
7	PATEL M. C.	LECTURER

NON - TEACHING SUPPORTING STAFF

SL.NO	NAME	DESIGNATION
1	JAGADEESH.K.	FOREMAN
2	BASAVARAJAIAH.C.	FITTER
3	NAGARAJA.M. B.	LAB ATTENDER
4	SHANMUKHAI AH	PEON
5	CHANNABASAMMA.P. M.	PEON
6	TAYAPPA.F.	PEON

Departmental Activities

Jan-July 2019

01. The department has bagged 04 VTU ranks for the academic year 2017-18 in B.Tech. (Textile Tech.). The details are as follows:

- Pavitra : I
- Anusha Crispin : IV
- Ranganath : V
- Karthik Kumar : VI

02. The department has achieved 80% (of the job aspirants) campus placement for the year 2018-19 and the details are as follows.

Sl. No.	Company	No. of students selected
1	Gokaldas Exports Ltd., Bangalore	6
3	Shahi Exports Pvt. Ltd., Bangalore	5
7	Aquarelle Ltd., Bangalore	2
8	Texport Industries Ltd., Bangalore	6
9	Texport Overseas Ltd., Bangalore	2
	Total:	21

03. Department organized “Texcreative – 19” a National level Students’ Technical Symposium on 29-30 March 2019. Mrs. Shagufta Parveen, Manager-Merchandizing, Shahi Exports P Ltd., Bengalooru and Rewati Raman, General Manager- Operations, Saara Apparels, Bengalooru graced the occasion as chief guests. Prof. Y. Vrushabhendrappa, Director, presided over the inaugural session. Dr. N. C. Nataraja, Principal and Dr. K Murugesh Babu, HOD, were present during the inauguration. About 35 papers were presented by students of various Textile Institutes across the country during various sessions including 05 papers from BIET.

04. As part of Texcreative -19’, an in house exhibition on “Fashion Accessories”, was organized in the department. Various types of Fashion Accessories were exhibited. The exhibition was unique and the highlight of the Texcreative 19’ programme. It was appreciated by one and all.

05. “Plastic and its Harmful Effects” a street play by students of DAVAN Institute, Davangere was organized by the department on 27-03-2019 to create awareness about harmful effects of plastics on environment.

06. All the staff members of the department attended AICTE Model Curriculum Workshop at Dept. of Textile Technology of BIET Davangere on 30-04-19 and discussed 2018 scheme and syllabus of Textile Technology Board of VTU.
07. Dr. K. Murugesh Babu, published a technical paper entitled “Bio- Scouring of Cotton”, in World J. of Tex. Eng. and Tech. April, 2019 issue.
08. Dr. K. Murugesh Babu, and Miss. Manasa of 6th sem. Student, published a technical paper entitled “Air Flow Dyeing- An Eco- Friendly Dyeing Technology in on line Journal of Textile School, April, 2019.
09. The final year project titled “Recycling of Waste Fabrics using Shredding Machine” guided by K. Murugesh Babu, sponsored by KSCST for the year 2018-19 and was selected for seminar/exhibition.
10. A Farewell function was arranged for 8th semester students on 23rd May 2019. Prof. Bakkappa, Director- MBA Programme, GMIT, Davangere was chief guest. Prof. Y. Vrushabhendruppa, Director, presided over the inaugural session. Dr. N. C. Nataraja, Principal and Dr. K Murugesh Babu, HOD, were present. Chief Guest gave a special speech on “Management and Entrepreneurship skills for Textile Graduates”.
11. Students of the department participated in various technical events conducted in various part of the country and won many prizes. Following is the details of the participation by students in various technical activities.

Sl. No.	Name of the event	Place	No. of students participated	Date	Prizes won
1.	National level students Technical paper presentation	BAIT- Sathyamangala Tamilnadu	04(02 teams)	4th-5 th Feb.2019	I prize and consolation prize
2	National level Technical quiz	BAIT- Tamilnadu	02	4th-5 th Feb.2019	--
3.	National level students Technical Conference.	DKTE- Ichalkaranji- Maharashtra	06(03 teams)	22nd-23rd Feb.2019	--
4	National level Pick on eye. (Design finding)	DKTE- Ichalkaranji- Maharashtra	04	4th-5 th Feb.2019	--
5	Waste Recycling from Textiles	DKTE- Ichalkaranji- Maharashtra	02	4th-5 th Feb.2019	I place
6.	VASTRA-National level students Technical paper presentation	KSR. College of Engineering- Tamilnadu	05(03 teams)	25th-26 th Feb.2019	I place and 3 rd place
7.	VASTRA-National level students Technical Quiz	KSR. College of Engineering- Tamilnadu	01	25th-26 th Feb.2019	I place

8.	VASTRA-National level students Fashion Designing using paper.	KSR. College of Engineering-Tamilnadu	02	25th-26 th Feb.2019	--
9	National level students Technical paper presentation	A.C. Tech. Chennai-Tamilnadu	02	5 th -6 th Mar.2019	I place
10	National level students Technical Quiz	A.C. Tech. Chennai-Tamilnadu	02	5 th -6 th Mar.2019	I place
11.	National level students Technical paper presentation	BIET, Davangere.	06 (05teams)	29 th -30 th march 2019	3 rd place
12.	National seminar ("SHOD 2K18")	REC, Hulkoti, Karnataka.	05 (03 teams)	15 th -16 th April 2019	2 nd place
13.	Mech-I-Prix	BIET Davangere	04	09 th -10 th May 2019	2 nd place

12. About 30 students participated in various events conducted during Davana-2019 (Institute's cultural and literary festival) and won 3rd prize in Indian group song, 3rd prize in Face Off, 1st and 3rd prize in Debate, 1st prize in creative writing, 2nd prize in Mime, 3rd prize in Rangoli and 2nd prize in Ideathon held at BIET from - march 2019.
13. Students of 6th sem. visited Shahi Exports Pvt. Ltd. Shivamogga a composite mill on 18-4-2019. K.B. Ravindra and S.M. Chandrasekara accompanied the students.



Students' Industry visit to Shahi Exports P Ltd., Shimoga

Departmental Activities



Texcreative 2019

BLOOD DONATION CAMP



Voluntary Blood Donation Camp

(organized by YRCW, NSS, ISTE & Textile forum in association with SSIMS Davangere)



Welcome to 3rd Sem Students

Chief Guest: Dr G.T.Govindappa, Rtd.Professor of Commerce, Davanagere University



Special Lecture on "Mind Matters Most" by Prof.G.T.Govindappa, Rtd.Professor of Commerce, Davanagere University



Bapuji Educational Association
BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE- 577004, KARNATAKA
DEPARTMENT OF TEXTILE TECHNOLOGY & RESEARCH CENTRE

TEXTILE FORUM
Presents
TeXCreative' 19
29,30 March 2019

18th National Level Technical Symposium

Prizes To Be Won
I Prize-Rs.5000/-
II Prize-Rs.3000/-
III Prize-Rs.2000/-

Special Events:
National Level Tax Quiz
In a 4 round quiz, testing your knowledge in textiles (Basic, technical & history)
Two participants per team
Registration fees Rs.200/- per team

Waste To Wealth
Two participants per team
Theme will be provided on the spot
Registration fees Rs.200/-
All the materials will be provided on the spot

Topics Invited:

1. Natural fibre composites for automobile application.
2. Production of regenerated sustainable fibres from Bio-resources.
3. Recent trends in liquid crystal polymers & fibres.
4. Smart textiles for defense applications.
5. Recent developments in fabric printing.
6. Airflow dyeing technology.
7. Recent advances in production & application of non-wovens.
8. Recent developments in finishing of apparels.
9. Waste-to-wealth in textile & garment industry.
10. Innovations in technical textiles.
11. Advances in fibre testing.
12. Fashion Trends-2020.

Facilities:

1. One way 2nd class train allowance per paper (per student)
2. Free boarding & lodging (for boys & girls) and local hospitality.

DATES TO REMEMBER:

1. Last day for submission of paper with abstract 20th March 2019.
2. Intimation of selection of paper 23rd March 2019.

GUIDELINES:

1. Maximum two student authors per paper
2. Duration of the presentation is 12-15 minutes.
3. Abstract & paper to be sent on soft copy & two hard copies.
4. Entry fee Rs. 300/- per paper (to be paid at the time of registration).

For Online Registration: bit.ly/2GU6RZT

Chief Advisors : Prof. Y Venkateshadasappa Director, Dr. H.B Aravinda Principal, BTEC, Davangere.	Address for communication : Dr. K. Murugesh Babu Chief Coordinator Professor & Head, department of Textile Technology, Phone : 08192-221461(0), Mobile: 69844116813 Email : texcreative19@gmail.com Website : www.texlog.edu	Staff Conveners : Dr. S.M. Chandrasekhara Mobile: 0984442292 Email: smce@pt@gmail.com	Dr. Dinesh Y.N Mob: 9964088918 Shri Sandesh K Shamarur Mob: 9164123365 Shri S.S. Nandikol Mob: 9448472428
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One Day EDP Programme for Textile Entrepreneurs of Davanagere District.

Students' Publications:

1. K. Murugesh Babu and Manasa Anekonda, Air-Flow Dyeing – an Eco-friendly water preserving fabric dyeing technology, [https://www.textileschool.com/5234/air-flow-dyeing-an-eco-friendly-water-preserving-fabric-dyeing-technology/May, 10 \(2019\)](https://www.textileschool.com/5234/air-flow-dyeing-an-eco-friendly-water-preserving-fabric-dyeing-technology/May, 10 (2019))

Abstract: Textile wet processing Industry is one of the highest water-consuming industries. 17-20% of today's industrial pollution is the result of the textile colouring treatment, contributing to 72 toxic chemicals in water supplies, 30 of which are permanent processes. To reduce these water contaminations, a new technology called "Air-Dyeing" has been introduced.

The Air-Dyeing uses 95% less water and 86% less energy than conventional fabric dyeing processes. While 10% of the conventionally-dyed fabric is damaged during the production process, only 1% of Air-Dyed fabrics are damaged during air-dyeing and no post-treatment or finishing is required. This reduces the industry's share of global warming by 84%.

The key factor of this technology is airflow with air being a perfectly suitable transport medium. The jet dyeing machines use air instead of dyed liquor as a transport medium for piece goods and this reduces consumption of chemicals and water to a great extent. Air Dye process is 2-sided and the hand feel of the finished fabric is luxurious and clean. Air Dyeing is a revolutionary method of dyeing that causes minimum harm to the environment.

2. Hitesh Das and K Murugesh Babu, Ecofriendly Specialty Fibres from Bio-Resources, *World Journal of Textile Engineering and Technology*, 5, 1-9 (2019)

Abstract: In the present era of environmental consciousness, sustainable materials play a vital role in protecting public health and environment. The eco-problems in textile industry occur during some production processes and are carried forward right to the finished product. Controlling pollution is as vital as making a product free from the toxic effect. There is a need to produce the material which is eco-friendly. So, the materials can be considered 'environmentally friendly for a variety of reasons'. Concerns for the environment and consumer demand are driving research into environmentally friendly fibres as

replacements for part of the 38 million tonnes of synthetic fibres produced annually. The main problems with synthetic fibres are that they are non-biodegradable. In last few decades, the textile industry has witnessed introduction of many new fibres in the market. Recently, environmental concerns and the growing global waste problem have spurred much research into the development of bio-based materials and motivated governments to increase the legislation pressure. Many clothing companies are focussing on use of sustainable fibres for manufacturing textiles and garments. These fibres are eco-friendly and are extracted or manufactured from bio-resources. Many innovations have been reported in recent years regarding the sustainability of these fibres. In this paper production of some regenerated sustainable fibres from bio-resources such as Viscose rayon, Lyocell fibres, Cupro fibres, Casein fibres, Groundnut protein fibres, Zein fibres, Soya bean fibres, Silicate fibres and Alginate fibres have been discussed.

CULTURAL ACTIVITIES



Texcreative-19 Promotion



Texexpo-19





BEST STUDENT PROJECT



Design & Development of NATURAL PLANT FIBRE EXTRACTOR

Project Guide: Dr. K. Murugesh Babu

Project Associates:

1. Ganesh R
2. Lavanya V
3. Shubha B V

STUDENT PARTICIPATION IN TECHNICAL COMPETITIONS



Students secured prizes in national level technical conference and waste management competition at DKTE Maharashtra.

Students secured prizes in national level technical paper presentation and T Shirt Designing competition at Rural Engineering College, Hulkoti, Gadag.

