

D.K.T.E. SOCIETY'S  
**TEXTILE & ENGINEERING INSTITUTE**  
ICHALKARANJI

# Textimes

— *News Letter* —

January 2019



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**DKTE**

AN AUTONOMOUS INSTITUTE

NAAC ACCREDITED WITH 'A +' GRADE



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# Textimes

*News Letter*

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## My relation with DKTES

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While in Madhavnagar Cotton Mills, I was involved in the formation of Miraj Unit of Textile Association (India) which was started on 15<sup>th</sup> June 1975. I could visit the spinning mills at Ichalkaranji and conducted programmes through the Association. During that time, there was no institute for giving education in Textile Engineering in Southern Maharashtra. Hence the Association persuaded Walchand College, Sangli for starting a Textile Engineering course. The Principal Mr. Pathak started some work; however, the idea was dropped as a diploma course was started at Solapur. Later Dr. P. A. Kulkarni took over as the principal he started a special branch in Mechanical Engineering as 'Special Purpose Machinery' and Textile was a part of it. I was conducting the classes for Textile subjects after completing the day's work at Mills.

Ichalkaranji Cooperative Spinning Mills was started in 1977 and Sri. K. B. Awade expressed his profound desire to start a textile course in Ichalkaranji. In 1982, DKTES started with diploma course in Textile Technology under the guidance of Prof. D. B. Ajagaonkar. In the meantime, on 15<sup>th</sup> June 1980, the Association conducted one day seminar at Walchand College to commemorate the 5<sup>th</sup> anniversary of the Association. Prof D.B. Ajagaonkar was also present at the conference along with some senior members of ICOSPIN. In the same year Prof D. B. Ajagaonkar released my first technical book "Fundamentals of Textile Mill Management" in a function held at Madhavnagar.

I was appointed as a member from Shivaji University for going through the infrastructure available for starting a degree course at DKTES in 1982. Dr. P. A. Kulkarni was the chairman of that team. Sri. K. B. Awade, Late Sri. R. N. Kulkarni (Ram Kaka) and Prof D. B. Ajagaonkar showed all the facilities. It was an immense task in converting the Rajwada into an Institute. However, due to the great determination of the team, affiliation was granted by Shivaji University.

I was taken as a member of the syllabus committee along with Sri A. G. Garde, Late M. G. Kulkarni, Prof Viznekar, Prof. D. B. Ajagaonkar, and many other eminent personnel. I was also involved in conducting classes till the college got sufficient staff. Prof C. D. Kane joined in 1983 and worked under the guidance of Prof D. B. Ajagaonkar. I was a team member for selecting the teaching staff for a couple of times. In 1985, The Textile Association Unit was moved to Ichalkaranji.

I left Miraj and went to Goa in 1988, and I wasn't able to visit the institute regularly. In the meantime. Prof S. D. Mahajan joined the institute. I came down to Gokak Mills in 1989, and could associate my self with the activities of TAIMU and DKTES regularly. Prof S. D. Mahajan started the Unit Level Conferences and also a Students chapter in the Association. I was involved in the All India Textile Conference that was conducted at Ichalkaranji in 1996.

DKTES has supported me for becoming an author of technical books by utilising my books for the educational purpose. As a man from the industry, it is my duty to support an educational institute, and hence I guided numerous students from DKTES in their projects at the B. Text and M. Text. I was also conducting classes on Management subjects for M. Text students for a couple of years. Even today, DKTES is inviting me to conduct guest lectures.

I have translated three books written by Sri. S. D. Mahajan and Sri Sachin Kanitkar from Marathi to Kannada. DKTES has become my second home and I have become a part of it. A number of staff members including Dr. P. V. Kadole were my students. I get a completely homely feeling whenever I visit DKTES.

- B. Purushothama



## **VISITS TO THE INSTITUTE**

### **VISIT OF MAHARASHTRA SHEEP AND GOAT DEVELOPMENT CORPORATION,PUNE**

Annually a number of corporations visit the institute to gain valuable information about the technology and many of the upcoming technical innovations.

On the 21<sup>st</sup> of April 2018, Mr. Dhananjay Parakale Managing Director of 'Punyashlok Ahilyadevi Maharashtra Sheep and Goat Development Corporation Ltd, Pune' visited the institute. During the visit discussion was held with Dr.U.J.Patil, Prof.A.U.Awasare and Prof.M.S.Kulkarni. Technical inputs were given on the subjects like technological up-gradation, new product development from locally available wool, value addition to the existing woollen products and some technical consultation points. Prof. S.S.Lavate coordinated the activity.

### **CORE COMMITTEE OF CONFEDERATION OF INDIAN INDUSTRY MEET**

The Confederation of Indian Industry (CII), conducted Core Committee Meeting at DKTE on the 18<sup>th</sup> of January 2018 which was chaired by Mr.Yogesh Kulkarni .

The Confederation of Indian Industry (CII), works to create and sustain an environment conducive to the growth of industry in India, partnering industry and government alike through advisory and consultative processes.

### **SPECIAL INTEREST GROUP, THE TEXTILE INSTITUTE OF MANCHESTER-WEST INDIA ZONE,MUMBAI**

The Special Interest Group (SIG), The Textile Institute of Manchester – West India Zone, Mumbai met with the Director of the institute. The members who attended the meeting were:

Dr.P.V.Kadole, Director, DKTE, Ichalkaranji

Rebecca Unsworth, Executive Director, The Textile Institute, Manchester, UK

Stephanie Duck, Chief Executive Officer, The Textile Institute, Manchester, UK

Dr. Vishaka Ashish Karnad, Assistant Professor at the College of Home Science, Nirmala Niketan, Mumbai (India)

Dr. V. D. Gotmare, Head of the Textile Department, VJTI, Mumbai

Dr. P. P. Raichurkar, Associate Dean CTF-MPSTME SVKMS NMIMS, Shirpur

Mr. Rajnikant Bachkaniwala, Section Chairman, The Textile Institute West India (WISTI)

Mr. Timir Roy, Council Member, Hon. Secretary, The Textile Institute West India (WISTI)

### **MR. CHANDRAMANI GYAWALI & MR. SANIM, REPUBLIC EDUCATION CONSULTANCY SERVICES, NEPAL**

Mr. Chandramani Gyawali and Mr. Sanim Republic Education Consultancy Services, Kathmandu (Nepal), visited the institute recently on the 11<sup>th</sup> of June 2018, regarding admission of Foreign Students, especially from various SAARC and African Countries, to DKTE. AICTE has accorded approval to the institute for admission of Foreign Nationals (FN), Person of Indian Origin residing in Foreign Countries(PIO), Non Resident Indian(NRI) with additional 15% quota for Under Graduate Textile Courses.

### **MR. MIKE KIDAMBI, EDUCATIONAL CONSULTANT, KENYA**

Mr. Mike Kidambi, an Educational Consultant from Kenya visited the Institute on the 17<sup>th</sup> May 2018 to discuss the possible avenues available in East African Countries (Kenya, Rwanda, Republic of Congo, Uganda) like admissions, training & consultancy



# MoU



### **ASAHI KASEI LTD., JAPAN**

Asahi Kasei Ltd., Japan and our institute entered into a Memorandum of Understanding (MOU) on the 14<sup>th</sup> of June 2018. Asahi Kasei Ltd. develops fiber products, chemicals, and electronic related materials based on its core technology of chemistry. Mr.Kondo Daiki, Manager Asahi Kasei Ltd., Japan and Prof. (Dr.) P. V. Kadole, Director, DKTE exchanged the MOU.

As per the MOU, DKTE and Asahi Kasei will cooperate with each other in the areas of research and development, lectures to students and faculty members.

### **FLUID TECH SOLUTIONS,USA**

Mr. Ramani Ramarathinam, Founder and Chief Executive Officer, Fluid Tech Solutions, USA (FTS) visited DKTE on the 16<sup>th</sup> of January 2018. The MoU between DKTE and FTS was signed during the visit. This collaboration will be useful where both parties can share knowledge, resources, facilities & infrastructure for know-how transfer and will help to develop, commercialize new products. This tie up will also strengthen academic activities globally. Fluid Tech Solutions is a leading Global Hydraulics Solution provider for various market segments and has a presence across USA, India and Middle East. The company also has academic collaborations with many leading universities across the globe.



Title of the Project	Project Investigator	Funding Source	Cost of Project Rs. in Lakhs	Sanctioned in	Duration of Project
Research Initiation Scheme	Prof. S. R. Kamat	Shivaji University Kolhapur	1.28	March 2018	1 Year
National seminar on Quality evaluation methods for Textiles	Prof. (Dr.) S. D. Asagekar	Institute of Engineers, India	0.3	May 2018	One time event

## PARTICIPATION IN VARIOUS EVENTS



### VDMA CONFERENCE

Institute's Dy. Director (Admin) and Head of Textile Department Prof. (Dr.) U. J. Patil, Prof. S. S. Lavate and Prof. S. M. Landage attended two day conference which was organized by VDMA- German Textile Machinery Manufacturers Association, held on the 15<sup>th</sup> and 16<sup>th</sup> of May 2018 at Hotel Leela, Mumbai. There were about 30 well known VDMA textile machinery and component manufacturers, who held 36 application oriented presentations on various sectors like spinning, weaving, knitting, finishing, dyeing and embroidery. Institute's faculty members acquainted themselves with various Machinery manufacturers, from Germany, in India on the technical knowhow and also about the MOU's.



### APPAREL INDUSTRY SUPPLIERS EXHIBITION (AISEX 2018) AND FABRIC ACCESSORIES SUPPLIERS EXHIBITION

An apparel Industry Suppliers Exhibition AISEX 2018 and Fabric and Accessories Suppliers Exhibition was organized at Srimavo Bandaranaike Memorial Exhibition Centre at Colombo, Srilanka, which was held from the 10<sup>th</sup> of May 2018 to 12<sup>th</sup> of May 2018. Institute participated in these exhibitions. TPO of Textiles Prof. S. B. Akiwate and Prof. (Dr.) S. B. Vhanbatte represented the institute at the exhibition. An overwhelming response was received from the Srilankan students at the stall seeking admission in various branches in Textiles for UG and PG programmes at DKTE. Also, the apparel industry gave an excellent response to the exhibition.



## EDUCATION EXPO 2018

An Education Expo 2018 was organized at Salem, Tamil Nadu. This was held from the 20<sup>th</sup> of April 2018 to 22<sup>nd</sup> of April 2018. Institute also participated as an Exhibitor at the Education Expo 2018 at Salem. Faculty members Prof. Vardhaman Chougule and Prof. Shiva Subramanian represented the institute at the Expo. A great response was received at the Expo.

## NONWOVEN TECH ASIA 2018

DKTE COE Nonwovens participated in 5<sup>th</sup> International Exhibition & Conference "Nonwoven Tech Asia 2018" at Mumbai from the 6<sup>th</sup> to 8<sup>th</sup> of June 2018.



## "MEGA JOB & SKILL FAIR"

Institute participated in "MEGA JOB and SKILL FAIR" on the 19<sup>th</sup> of May 2018, organised by Shivaji University by exhibiting a stall for Garment Skills in Garment manufacturing process, Embroidery and surface ornamentation, Innovative garment stitches for value addition. The program received an overwhelming response.

## SEMINAR ON 'RECENT TRENDS IN TEXTILE CHEMISTRY'

One day National Seminar on 'Recent Trends in Textile Chemistry' (RTTC-18) was organized on the 17<sup>th</sup> of February 2018 by Walchand College of Arts and Science, Solapur under CPE Scheme of UGC, New Delhi. The Textile Chemistry faculties were resource personnel for the entire programme. The gamut of recent trends including pretreatment, dyeing, finishing, testing and utility was covered by Prof. S A Shetti, Prof. S. M. Landage, Prof. R H Deshpande and Prof. (Dr.) S. B. Vhanbatte. Institute appreciates and supports the initiative of Walchand College of Arts and Science, Solapur for offering professional certificate courses such as Textile Chemistry to B.Sc. students. Participation of students, faculties and industry was remarkable.



## EVENTS ORGANIZED

### SEMINAR ON "WOOLMARK"

One day seminar on "Woolmark" Wool Appreciation and Education Course, was jointly organised with Seam Consulting Group, Australia. Which was held on the 19<sup>th</sup> of March 2018. Detailed information related to Merino Wool fiber along with its processing and various applications were discussed. Seminar was delivered by Mr. Rajesh Bahl who represents 'WoolMark' in Australia. The seminar was attended by many students and faculty members.

### HALF DAY WORKSHOP ON "NANOTECHNOLOGY AND 3 D FABRICS"

Half day workshop on Nanotechnology and 3 D Fabrics by Prof. Jiri Militky, Senior Professor & Dean of Faculty and Prof. (Dr.) Rajesh Mishra, Associate Professor of Technical University of Liberec, Czech Republic was organized on the 12<sup>th</sup> of March 2018.

### HALF DAY SEMINAR ON "GST – GREEN SUSTAINABLE TEXTILE (PROCESSING)"

Half day seminar on GST – Green Sustainable Textile (Processing) was held on Saturday, the 24<sup>th</sup> of February, 2018 for faculty and students.

### TEXVISION

A National Level Technical Event "Textvision 2018 & Fashionova 2K18" - with the theme "Upholstery", was held at DKTE on the 3<sup>rd</sup> of March 2018. The function was inaugurated by Mr. Mukesh Savalani (Business Head, Welspun India Ltd), Mr. R. Sampath (President of Textile Association Ichalkaranji Miraj Unit), Mr. Vinay Bhat (Unitex Apparels Bangalore), Mr. Deepak Mane (D'Décor Mumbai), Mr. Atik Sheikh (Mohan Spintex Mumbai), Director, Prof. (Dr.) P. V. Kadole & Dy. Director, Prof. (Dr.) U. J. Patil. More than 250 students participated from all over India and were enthusiastically involved for this event.

It was comprised of mainly four events:

- Technical Paper Presentation Contest
- Technical Product Display
- Design Collection & Presentation
- Fashion Sketching



### ANNUAL ALUMNI MEET

An annual alumni get together was organised on the 26<sup>th</sup> of January, 2018 at the Darbar Hall. The program was graced by more than 300 alumni from various zones of India and abroad. It was a wonderful occasion to meet and share the experiences with the alumni of Degree and Diploma Silver Jubilee batches of the year 1992 and 1993. They were specially invited for the meet and were felicitated on the occasion.

The programme was inaugurated with the lighting of the lamps. Prof. (Dr.) U.J. Patil, Deputy Director, DKTE's TEI, welcomed the alumni and explained the purpose of the alumni association. Prof. (Dr.) P. V. Kadole, Director, DKTE's TEI addressed the gathering and the updated institutes progress. The alumni shared their experiences about DKTE, and its role in their career.



## NEW EQUIPMENTS



## 1) Horiba Particle Size Analyzer (Partica LA-960)

Measurement Method Mie Scattering Theory  
Measurement Range 0.01  $\mu\text{m}$  to 5000  $\mu\text{m}$



## 2) Water permeability Tester (Phadke Instruments)

## DKTE TECHNOLOGY BUSINESS INCUBATOR (TBI)

- On the 19<sup>th</sup> of May 2018 institute participated in the Skill Fair held at Shivaji university.
- On the 31<sup>st</sup> of July 2018 an expert lecture on developments in cuppramonium Rayon for B.Text MMTT students was held.

## DKTE TIFAC - CORE IN TECHNICAL TEXTILES (TIFAC)

- On the 14<sup>th</sup> of June 2018 a Faculty Development programme on developments in Cuppramonium Rayon was held.
- On the 27<sup>th</sup> of June 2018 an Expert lecture on "Design Philosophy of extract machine" was held.

## INTERNATIONAL INDUSTRIAL TRAINING OF STUDENTS



Four students Deepak Kadava, Suraj Sutar, T. M. Akshat, Shubham Patil were given industrial training at Technical University of Liberec, Czech Republic for a month. During this period, the students worked on various upcoming fields of Technical textiles, of the likes of, aramid fibers and their related comfort properties, comfort properties of non-wovens and production of non-woven based composites from flax fibers.



■ hochschule  
■ hof  
■ University of Applied Sciences

This year 15 students were selected from the institute for an International Internship at Germany for a period of one month in accordance with the MOU signed between the institute and HOF University, Germany. During this internship students had undergone hands-on training along with classroom lectures. The internship was based on recent advancements in the fields of Technical Textiles, Innovative Textile Finish and Sustainable

Textile Business. Students had also visited well established and state of the art technological Industries like BWF, Netzsch, AVR Nonwovens, Fraunhofer ISC, Zschimmer&Schwarz.




### STUDENT EXCHANGE PROGRAM

In accordance to the MOU between the institute and HOF University Mr. Yash Jagwani started his semester at the HOF University. He is pursuing his bachelor's degree in innovative textiles. The course is structured with complete practical oriented knowledge along with the theoretical studies.







## ACHIEVEMENTS OF STUDENTS AT VARIOUS NATIONAL LEVEL INTER COLLEGE EVENTS

Name of Student / Class	Title	Organized By	Prize
Darshan Bilagi (SYTT) Mohseen Khan (SYTC)	A National Level Symposium on Technical Textiles "Texus'18" Quiz Gun – 23 to 24/01/2018	Bannari Amman Institute of Tech., Sathyamangalam Erode	Third Prize
Akshat T. M. (TYMMTT) Sampatkumar U. K. (TYMMTT)	The Global Clash of Techno Talentz "Kriya 2K18" Texaholic – 23 to 25/03/2018	PSG College of Technology, Coimbatore	First Prize
NileshTakale(SYTT) Aditya Vyas (SYTT)	National Level Students Technical Symposium – Texcreative' 2018 – Poster Presentation – 6,7/03/18	Bapuju Institute of Engg. & Tech. Davangere	Second Prize
Abha Pudke (TYTT) Gauri Kadam (TYMMTT)	A National Level Technical Fiesta – PRAGYAA 2018 – Poster Presentation – 16 to 18/03/2018	Shri Guru Gobind Singhji Institute of Engg. & Tech. Nanded	Third Prize
Vinay Jaiswal (TYMMTT) Akshay Jadhav Final (MMTT)	A National Level Technical Fiesta – PRAGYAA 2018 – Poster Presentation – 16 to 18/03/2018	Shri Guru Gobind Singhji Institute of Engg. & Tech. Nanded	First Prize
Mahesh Bhandari Final (TT) Sanjita Rajpurohit SY (FT)	Annual National Level Technical and Fashion Summit – VASTRA' 18 – Fashion Show – 16, 17/03/18	Veermata Jijabai Technological Institute, Mumbai	First Prize
Shreya Bidkar SY. (TT) Nobel Kamble Final (MMTT)	Annual National Level Technical & Fashion Summit – VASTRA' 18 – Fashion Show –16, 17/03/18	VeermataJijabai Technological Institute, Mumbai	First Prize



Name of Student / Class	Title	Organized By	Prize
Sumit Agrawal Final (TT) Nikhil Kalika (TYMMTT) Mayuresh Mete (TYMMTT)	Annual National Level Technical & Fashion Summit – VASTRA' 18 – Fashion Show –16, 17/03/18	Veermata Jijabai Technological Institute, Mumbai	Runner up
Kajal Bajaj Final (FT) Sanskriti Paraskar SY. (TT) Pritam Surve Final (MMTT)	Annual National Level Technical & Fashion Summit – VASTRA' 18 – Fashion Show –16, 17/03/18	VeermataJijabai Technological Institute, Mumbai	First Prize
Rushikesh Bhattad (SYFT), Nikhil Kalika (TYMMTT) Prateek Kurhekar (SYTPE)	National Level Design & Technical Symposium "Sfilata 18" Poster Presentation – 9/03/2018	Jawaharlal Darda Institute of Engineering & Tech., Yavatmal	First Prize
Pankaj Bajaj (SYFT) Stuti Malu (SYFT)	National Level Design & Technical Symposium "Sfilata 18" Paper Presentation – 9/03/2018	Jawaharlal Darda Institute of Engineering & Tech., Yavatmal	First Prize
Sammed Patil Third Y. B. Text. (TT)	National Level Design & Technical Symposium "Sfilata 18" Poster Presentation – 9/03/2018	Jawaharlal Darda Institute of Engineering & Tech., Yavatmal	Third Prize
Trupti Patil (TYFT), Ekta Badave (TYFT) Padmaja Patil (TYFT)	National Level Design & Technical Symposium "Sfilata 18" Poster Presentation – 9/03/2018	VeermataJijabai Technological Institute, Mumbai	First Prize
Rushikesh Bhattad (SYFT) Vaishnavi Baheti (SYFT)	Annual National Level Technical and Fashion Summit – VASTRA' 18 Paper presentation	Veermata Jijabai Technological Institute, Mumbai	Second Prize

## Flourishing Alumni



**Mr. Milind Malwade**

Milind Malwade an alumnus of the institute, who completed his B. Text. MMTT in 1997. He then, completed his MBA in marketing. Initially he started his career in production and then moved into international marketing of yarns. As of now, he is the Vice President (Marketing) in Damodar Industries limited and handles around 600 crores of yarn exports.



**Mr. Karun Tyagi**

Mr. Karun Tyagi an alumnus of our institute ,who completed his B.Text in Textile Chemistry (1999). He also completed PGDBM from IMT Ghaziabad. He is a senior professional in the Textile Dyes & Chemical industry with more than 18 years of work experience across industries like Huntsman Textile Effect, Resil Chemicals, Bluechip Industries & TCNS Ltd. He is presently working as the Vice President – Business Development & Environmental Sustainability with Proklean Technologies Pvt Ltd. ( a company based in India which is involved in research, development and manufacturing of all-natural, non-toxic and bio-degradable products under the Proviera umbrella) with its technology partner SCD Probiotics of USA.



## Outstanding Achievements Of Students

**Colorado  
State  
University**



**Ms. Saloni Purandare**  
Pursuing MS in Designing  
& Merchandising

**NC STATE UNIVERSITY**

**Mr. Pranil Vora**  
Pursuing MS in  
Textile Engineering



TECHNICAL UNIVERSITY OF LIBEREC, CZECH REPUBLIC

**Mr. Shriram Chougule**  
Pursuing MS in  
Nonwoven & Nonmaterial



WUHAN TEXTILE UNIVERSITY, CHINA

**Mr. Abhijit Suryawanshi**  
Pursuing Master Degree

President Scholarship  
Scheme with an Assistance  
of around Rs. 25 Lakhs.



Donghua University, China

**Mr. Mohamadarслан Sadannavar**  
Pursuing MS in  
Textile Chemistry

Assistantship of 50 Lakhs  
From Govt. of China.

**POLIMODA**

**Mr. Nobel Kamble**  
Pursuing Master in Fashion  
Brand Management

# PLACEMENT REPORT

**WE**  
TAKE CARE OF YOUR CAREER



## An interaction with Prof. S. B. Akkiwate , Training and placement officer , DKTE :

National and international Companies from multiple domains like integrated textile companies, Technical textiles, Non-woven manufacturing, Home textiles, Inspection, Testing, Certification, Garment manufacturing & Exporters of Branded apparel companies, Yarn exporters, Machine manufacturers, Machinery sales & service providers across different geographical regions hired candidates from the institute.

75 companies participated in the Campus Recruitment Program- 2018 at DKTE's Textile and Engineering Institute for recruitment of textile diploma, graduate and post graduate students. All those who applied for interviews were selected.

For the past 3 decades institute has maintained a 100% placement streak , which continued this year as well.

Welspun Industries Ltd. recruited 29 Final year textile students and 08 Pre-Final year students for summer internship under the PPO scheme and emerged as the top recruiters.

The top recruiters at DKTE's Textile and Engineering Institute for the recruitment of textile students in the academic year 2017-18 were Must Corporation, Hongkong, Vardhaman Textiles Limited, Reliance Industries Limited, Welspun India Limited, Voltas Limited, Kusumgar Corporates, Voith Paper Fabrics, Arvind Limited, Saurer Textile Solutions Pvt.Ltd., Proklean Technologies Pvt.Ltd., Faurecia Group, Shahi Exports Limited, Carenow, Jockey, Laguna Clothing Pvt.Ltd., Ashima .

Most of these companies interviewed and selected third year students for internship under the PPO Scheme. They provided projects and stipends for Internships. Based on their performance, the companies offer jobs before the commencement of the next year campus interviews. More than 65 pre-final year B. Text students got internship offer letter during the campus recruitment program, 2017-18 which were significantly higher than past. Increasing number of PPO is an indicative of better placement for the forthcoming year.

The maximum package offered for B Tech students was 15 LPA and an average package of close to 03 LPA. For diploma students an average package of 02 LPA was offered.

Out of three Diploma, five B.Text. and three PG programs a total of 349 students were enrolled out of which 236 students had shown interest in the campus recruitment programs.

PROGRAMMES	NO. OF STUDENTS ON ROLL	NO. OF STUDENTS INTERESTED IN JOB
B. Tech	229	182
Diploma	120	54
Total	349	236

Analysis of the above data shows that almost 60% of Diploma students were willing to go for higher education and self employment. A majority of B Text students are interested in campus recruitment process, only 20% of B. Text students are willing to go for Higher studies / Self employment. Among P.G. students 60% students are Sponsored candidates and 40% students were willing to take up jobs.





### **Title of the Project : Suitability of Silk Denim in Modern Wear.**

Name of the Guide : Prof. L. G. Patil

Name of the Students : Prashansa Patil, Himanshi Patodi, Shubham Petkule, Sujata Shinde, Nisha Shukla, Sujata Phad.

Objectives :

1. To adopt Eri silk denim in the modern clothing such as ladies top wears.
2. To provide the designers the versatility to develop a modern appeal for the ladies' top wear.

Summery : While making an attempt to adopt Eri silk denim in modern clothing, it was found that the garments seem to match with the light weight cotton denims with an additional advantage of a lower GSM. Though the production time is high, it can be manufactured successfully on the handloom. It's increasing acceptance amongst various age groups and social classes in the society can fetch a higher price for this fabric. One of the garment equipped with a safety measure device (Motorola Silver Coin) provides safety for women by tracking their location using GPS. The excellent feedback of the consumers help the weaving sector of silk industry to manufacture a diversified range of products hence, making it suitable for branding which comprises of satisfaction with respect to quality, cost, serviceability to the consumer.

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### **Title of the project : Design & development in Sewing Machine for Physically Challenged People**

Name of the guide : Mr. Ravikumar Nandlal Purohit

Name of the Students : Kiran Jadhav, Ankita Bhandare, Aarti Ghormare, Shubhangi Dhanture, Dipali Gaikwad, Madhuri Jadhav

Objectives :

- 1 To do mechanical changes in sewing machine for physically challenged people.
- 2 To make a cost effective assemblies or work aids in sewing machine.

Name of the students:-

Summary:

Apparels are essential for the human being and it is the 2<sup>nd</sup> largest sector in India. Disability is major barrier in improving the living conditions of physically challenged people in developing countries. When we think of people with a physical challenge, we often think of people who suffer from lower limb disability. Sewing is one of those activities that transfer scraps of fabric into beautiful finished product. The machines which are available for the physically challenged people are very limited and are available only for home usage and not for industrial purposes. In this project various factors were considered and an attempt was made to design and develop some assemblies which one can attach to the sewing machine which will be useful for people with disabilities.

## VISIT TO INTERNATIONAL UNIVERSITIES



Prof. L. G. Patil Programme coordinator, Fashion Technology, visited 'The School of Design', University of Leeds, U. K. on the 31<sup>st</sup>

of May 2018 for discussions on possible collaboration between DKTE and University of Leeds. He delivered a presentation in a meeting with Dr. Muhammad Tausif, Lecturer of fiber/yarn spinning technology.

The School of Design has a long and distinguished history, since its establishment in 1874. And has established a reputation as one of the world's leading textile centers.



## BOOK PUBLISHED BY FACULTY MEMBERS

Prof. M. C. Burji & Prof. A. A. Hulle published have an E-book titled 'Basics in Textile Warp Sizing'.

Publisher- Online Textile Academy, CPSIA, USA.

ISBN: 978-1717595997


Publishing Year- 2018

## PAPER PUBLISHED BY FACULTY MEMBERS IN NATIONAL JOURNALS

- Prof. (Dr.) P.V.Kadole, Prof. (Dr.) U.J. Patil, Prof. S.M.Landage and Prof. P. M.Katkar have published a paper on 'Academic practices for sustainable growth –D.K.T.E'S Textile Department' in the Journal of Engineering Education Transformations, January 2018.
- Prof. Sarika Borikar, Prof. Ravi Purohit and Prof. A. A.Hulle have published a paper on 'Waste elimination in textile industry' in Man-Made Textiles in India, January 2018.
- Prof. P.S. Joshi & Prof. M.S.Kulkarni have published a paper on 'Performance assessment of card' in Spinning Textiles, January 2018.
- Prof. A. A. Raybagi has published a paper on 'Specialised applications of intelligent textiles' in Man Made Textiles in India, May 2018.

## PAPER PUBLISHED BY FACULTY MEMBERS IN INTERNATIONAL JOURNALS

- Prof. R.N.Narkhedekar and Prof. (Dr.) A. I. Wasif have published a paper on 'Changing the arrangement of yarns in 100% cotton fabric and its influence on durable press rating' in Melliand International, January 2018.
- Prof. (Dr.) P. V. Kadole, Prof. S.S.Lavate and Prof. R. N. Narkhedekar have published a paper on 'Eli twist compact yarn: substitution for double yarns?' in Melliand International, January 2018.

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- Prof. R. K. Valsang and Prof. L. G. Patil have published a paper on 'Thermal properties of cotton polyester fabrics' in International journal of Multidisciplinary Educational Research, February 2018.
  - Prof. A. A. Hulle has published a paper on 'Textiles as EMI shields' in Journal of Textile Science and Engineering, February 2018.
  - Prof. R. N. Narkhedekar and Prof. (Dr.) A. I. Wasif have published a paper on 'Twist direction: an important factor affecting the wrinkle free appearance of 100 % cotton fabrics made from ply yarns' in Colourage, March 2018.
  - Prof. (Dr.) P. V. Kadole and Prof. R. L. Gotipamul have published a paper on 'Geosynthetics in Environmental Engineering' in Asian textile journal, April 2018.
  - Prof. R. N. Narkhedekar and Prof. (Dr.) A. I. Wasif have published a paper on 'Durable press: A quality enhancing parameter for 1005 cotton garment fabrics' in Asian textile journal, April 2018.
  - Prof. (Dr.) P. V. Kadole, Prof. P. M. Katkar and Prof. A. A. Hulle have published a paper on 'Needle punched polyester nonwoven reinforced composite' in Textile trends, May 2018.
  - Prof. A. A. Raybagi and Prof. (Dr.) M. Y. Gudiyawar have published a paper on 'Properties of polyester, nylon blended air-jet textured fabrics' in International Journal of Engineering Research, June 2018.

### SEMINARS, WORKSHOPS, TRAININGS AND CONFERENCES ATTENDED.

- Textile faculties attended training programme on 'Developments in Cuprammonium Rayon' by Mr. Kondo Daiki, AshiKASEI Corporation, Japan, organized by D.K.T.E. TIFAC-CORE in Technical Textiles on the 14<sup>th</sup> of June 2018 at the institute.
- Prof. S. M. Landage attended Conference of ICTIEE 2018, organized by Thiagarajar College of Engineering, Madurai at Madurai on the 7<sup>th</sup> of January 2018 to 9<sup>th</sup> January 2018.
- Textile faculties attended seminar on 'GST – Green Sustainable Textile (Processing)', organized by Society of Dyers and colorist and D.K.T.E on the 24<sup>th</sup> of February 2018 at the institute.
- Textile faculties attended a half day workshop on 'Nanotechnology and 3D fabrics' by Prof. Jiri Militky , Senior Professor and Dean of Faculty and Prof. (Dr.) Rajesh Mishra , Associate Professor of Technical University of Liberec, Czech Republic ,organized by D.K.T.E. on the 12<sup>th</sup> of March 2018 at the institute.
- Textile Faculties attended a seminar on 'Wool Mark (WAC, WMK-WEC)' by Mr. Rajesh Bahl, Seam Consulting Group, Australia, organized by D.K.T.E on the 19<sup>th</sup> of March 2018 at institute.

### SUCCESSFUL COMPLETION OF PH.D.

- Prof. Y. M. Indi, who has been working for 23 years at our institute, has completed his Ph.D. in Textile Engineering under the faculty of Science and Technology in Shivaji University, Kolhapur on the 23<sup>rd</sup> of March 2018. He worked under the guidance of Prof. (Dr.) A. I. Wasif on the research topic titled "Green technology in chemical processing of textiles" .
- Prof. M. C. Burji, who has been working for 16 years at our institute, has completed his Ph.D. in Textile Engineering under the Faculty of Science and Technology in Shivaji University, Kolhapur on the 25<sup>th</sup> of June 2018. He worked under the guidance of Prof. (Dr.) P. V. Kadole on the research topic titled "Studies on multi component yarns manufactured on air covering technology" .



# LEAN MANUFACTURING



With time manufacturing industries shift to places where labor charges are lower, but even after setting up the manufacturing cost will not increase as there will be a hike in labor charges, raw material charges, transport costs, depreciation and other influencing factors. All these result in higher manufacturing cost per unit and also in order to sustain in this competitive market, manufacturers can not increase the selling cost which results in the reduction of the profit margin and in order to sustain the profit level the only way is to reduce the manufacturing cost and this can be achieved by lean manufacturing.

Lean manufacturing is a technique where wastages and non-value activities get reduced by implementing lean tools and causing process to become lean thus lean manufacturing is a necessity for manufacturing industries. This paper includes information about various lean manufacturing techniques, their benefits and their implementation processes.

The word lean is defined as "Thin" in the English dictionary. The Japanese came up with the idea of Lean manufacturing, especially the Toyota manufacturing unit, but in-fact Henry Ford was the first to use parts of Lean manufacturing as early as the 1920's, he believed and proved that the shortning of the production cycle time can reduce the manufacturing costs and longer the process of manufacturing higher is the manufacturing cost. The National Institute of Standards and Technology Manufacturing Extension Partnership's Lean Network, defined lean as "A systematic approach to identifying and eliminating waste through continuous improvement, flowing of the product at the pull of the customer in the pursuit of perfection."

Most organization work on the formula;

$$\text{Selling price} = \text{Profit} + \text{Costs}$$

Here, we can not increase the selling price and in this competitive world if the organization should work on:

$$\text{Profit} = \text{Selling price} - \text{Manufacturing Costs}$$

Lean works to reduce the costs. Companies that implement Lean typically make significant savings in costs thus there is a direct improvement in profitability.

To become a world class organizations or a Lean Enterprises the first step in achieving this goal is to identify and try to eliminate the various types of wastes. As Toyota, and other world-class organisations have come to realize that the customers only pay for the value added to the work, but never for the wastages incurred.

In simple words, Lean manufacturing works on the principle of 3 'M' which is related to waste reduction.

1. Muda:- Systematic approach for waste elimination.
2. Mura:- Waste generated by uneven work load.
3. Muri:- Waste created by overburden.

Lean manufacturing is also about the conversion of the push sustem to the pull system.

The seven wastages are: Transportation, Unnecessary Inventory, Unnecessary / Excess Motion, Waiting, Overproduction, Over Processing and Defects. There are two additional catagories of wasteges: Energy wastage and Less utilization of talent.

The steps for Lean implementation and the necessary lean tools are given in

## Lean Tools

5 S	POKA - YOKE	JIT
KAIZEN	VISUAL DISPLAYS	TPM
SMED	OEE	VSM
ANDON	PDCA	GEMBA
KANBAN	JIDOKA	KPIs
ROOT-CAUSE ANALYSIS	BOTTLENECK ANALYSIS	CONTINUOUS FLOW

Quality performance, fewer defects, rework (in house and at the customer level), fewer machine and process breakdowns, lower levels of inventory, greater levels of stock turnover, lesser space occupied, higher efficiencies, higher output per man hour, improved delivery performance, faster developments, greater customer satisfaction levels, improved employee morale and involvement, improved supplier relations, higher profits, increased business and many more are some of the benefits of lean manufacturing.

Lean is applicable to any business but Lean is becoming a necessity for a manufacturing organisations, as Lean organisations are able to be more productive and responsive to the market conditions than other organisations, and in terms of product delivery and faster services, which are offered at comparatively lower prices than their non-lean counterparts. Lean is completely focused on customers and also add value addition to the product.

- Ravikumar Purohit

Management  
Commitment



Vision &  
Mission



Lean  
Training



Planning



Initiative  
Plan



Implimen-  
tation



Sustain



AN AUTONOMOUS INSTITUTE

NAAC ACCREDITED WITH 'A +' GRADE



Contact for campus recruitment

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