

DKTE

AN AUTONOMOUS INSTITUTE

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Textimes

.....*News Letter*.....



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DEPARTMENT OF TEXTILES

**D.K.T.E.SOCIETY'S
TEXTILE & ENGINEERING INSTITUTE,
Ichalkaranji-416 115**

Textimes

.....News Letter.....

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AWARDS AND APPRECIATION

The Best Textile Engineering and Technology College of the year 2020

We are pleased to share that DKTE has been greatly appreciated as "The Best Textile Engineering and Technology College of the year 2020" under the category of 'Innovative Teaching Approach & Quality Education' by the survey conducted by Beginup.com. The Premium Educational Excellence Awards are rewarded to outstanding Academic Institutes contributing towards growth of the Educational Ecosystem and Institutions who are making an honourable future of this society.



Awarded Certificate of Recognition

DKTE is awarded with Certificate of Recognition "RPA RIDERS 2021" for Outstanding Performance and Students Participation by 'EduSkills' and 'Blue Prism University'.



International conference on " Innovations in Textiles - Products of Processes"

The Virtual International Conference on "Innovations in Textiles – Products and Processes" was organized by the Department of Textiles on 2nd and 3rd September 2021. This conference was designed to disseminate the latest research findings and advances in Textiles to academicians, scholars, technocrats of industries and researchers from R&D organizations, specifically focusing on innovations in textile products and processes. The eminent invited speakers from Universities, Institutes, Research organizations and Industries presented their innovations. Conference provided a platform for academicians, technocrats and researchers to exchange and share their experiences on innovations in the field of textiles.



TED^x - A Global Event

TED is a non-profit organisation spreading the proliferation of worthy ideas since its establishment in 1984. TED stands for Technology, Entertainment and Design which encloses everything from science, business, global issues and many more. TEDx is an extension of TED's purpose of spreading great ideas across the world. TED^x is a community of passionate lovers who seek to discover new ideas and share the latest research in their local areas and spark the conversations in their communities. TED^x events are independently organised under a free license granted by TED.

TED^xDKTETEI was organized on 27th March 2021 by our students with a massive success. At TED^xDKTETEI, each 18-minutes (or less) long talk combined to open up the minds of the audience and transform the ideas into action. The way of living to expand one's horizon is to seek out new experiences, especially if one's experience has been relatively limited. In this day and age, where we have access to almost all the information that is possible to be accessed, we still do not take the opportunity we have. For the same reason,

The following 7 exceptional speakers were invited to speak about what they feel most passionately about.

- **Aditya Raj – “Networking & Success”**
- **Amey Nerkar – “Evolving Communities with Innovation”**
- **Dr. Anand Nadkarni – “Destigmatizing Mental Health”**
- **Dr Komal Rao – “The Philosophy of Martial Arts”**
- **Dr Sneha Gokani – “Research in the Modern World”**
- **Nikhil Malankar – “Evolution of Indian Gaming Industry”**
- **Vishal Pinjani – “Gay Marriages in India”**

Workshop on "Business Canvas"

Institutions Innovation Council (IIC) and Student chapter of Textile Association of India Ichalkaranji- Miraj unit (TAIMU) jointly organised a workshop for Third Year Textile students on "Business Canvas" on 23rd January 2021 on Microsoft Teams. More than 150 students attended the workshop. The workshop was conducted by Prof. V. Y. Badve - TPO of MBA Department and Prof. H. S. Dayma - Asst. Prof. of MBA Dept. of our institute. Dr. M. C. Burji highlighted the importance of Innovation and Entrepreneurship in technical education.



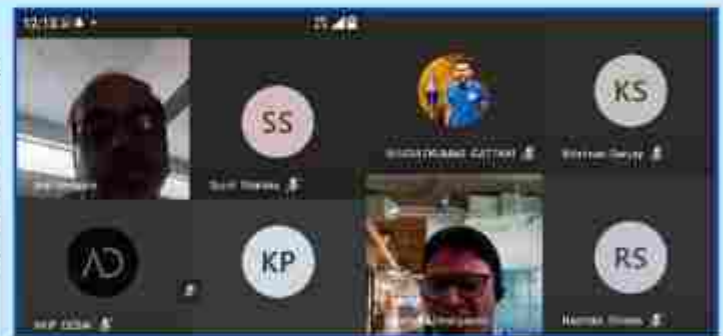
Workshop on Garment and Fashion Industry

Three days workshop for Final Year B. Tech Fashion Technology Students was conducted from 8th to 10th May 2021 using online platform mode on 'Garment and Fashion Industry' supported by Lead College Cluster, Shivaji University. The workshop was aimed to enlighten students in the area of Garment and Fashion Industry which will benefit the students in their career. The workshop was coordinated by Prof. L. G. Patil and Prof. S. B. Akiwate.



Interaction with Industrialist

Textile Department of DKTE, Student chapter (Textile Association India Ichalkaranji - Miraj unit) and Institutions Innovation Council organized an interaction session with Mr. Sanjay Quane, Director, Keetex Group, Jaysingpur for Third Year Textile students on 27th January 2021, on Microsoft Teams. The event was successfully conducted under the valuable guidance of faculty coordinators of TAIMU.



Interaction with distinguished Alumni

DKTE Institution Innovation Council and Student Chapter of Textile Association of India Ichalkaranji- Miraj unit jointly organized a workshop for Third Year Textile students on "Journey from DKTE PPP Centre to Egypt" on 29th January 2021 on Microsoft Teams. More than 150 students attended the workshop. Mr. Pravin Bhagwat, one of our proud alumni - who is working in Egypt, revealed about his journey from DKTE to Egypt and motivated the students in this workshop.



Interaction with Industry Expert

An interactive session for S.Y. B. Tech. Textile students was arranged on 3rd Feb 2021 with Mr. Anil Yadav, Head Technical and Exports of 'Moksha Thermoplastics Pvt. Ltd. Ahmedabad' - one of the premiere plastics bobbin manufacturing companies, exporting to more than 60 countries. He briefed about different yarn carriers used in the textile industry, manufacturing process, design developments and importance. 140 students attended the session.



Webinar on Industrial Netting

An interactive session for Final Year B. Tech Textile Technology and Textile Plant Engineering students was arranged with Mr. Sanjeev Kasar, Manager, 'Tufropes Pvt. Ltd., Vadodara' on the topic "Industrial Netting" on Tuesday 9th March 2021. Mr. Sanjeev Kasar, who is also an alumnus of the Institute having more than 30 years of experience in manmade and technical textile manufacturing, shared the information about different types of Nets, their application, manufacturing process etc. During this two hours presentation, he also gave the thoughts of wisdom to the final year students about their career. The session was conducted on Microsoft Teams platform.



Webinar on Geotextiles and Geosynthetics

The Textile Department organized a Webinar on "Geotextiles and Geosynthetics" on Tuesday 15th June 2021. The resource person of the webinar was Mr. V. Ravikanth, Assistant Vice President - Business Development (PP), Reliance Industries Ltd. Mumbai. The Webinar addressed the developments in Geotextiles and Geosynthetics in the field of surface transport, soil erosion, marine field and ports. The webinar was attended by students, faculty and technocrats from industries.



Webinar on GATE exam by Lotus Academy

Mr. Shailendra Kumar Mishra, Director, Lotus Academy, Kanpur, interacted with our final and third year Textile students. He explained various topics for the preparation of students for GATE 2022 examination and diversified higher education opportunities after GATE qualification like NITTE Mumbai, IIT Mumbai, IIT Dhanbad, IISC Bangalore, and IIM for Management, Material Science and Industrial Engineering. GATE Toppers from the last four batches of Lotus interacted with students. Career Guidance Cell Incharge, Dr. J M Patil highlighted the advantages of Prerna Scheme sponsored by AICTE for students.



Webinar on Entrepreneurship, Innovation and Start-up

Dr. Manjunath Burji (NISP Coordinator and Innovation Ambassador - MoE, GoI) and Dr. S. B. Mhetre (Innovation Ambassador - MoE,GoI) conducted Seminar on 'Entrepreneurship, Innovation and Startup' for Final Year Textiles on 28th June 2021 through Online mode.



Webinar on Global Education Opportunities

Career Guidance Cell of DKTE organized a webinar for third and final year B. Tech students on 21st May 2021. Prof. Abhay Kelkar of 'Shri Mahalakshmi Academy, Kolhapur' conducted a Webinar on "GLOBAL EDUCATION, SCHOLARSHIPS & INTERNATIONAL CAREER OPPORTUNITIES". During the session, he gave detailed ideas about admission procedure, fees, Visa, job opportunities and advantages of studying in the USA, Canada, UK, Germany and Australia. He also informed the students about the various scholarships offered by Govt. of Maharashtra, Govt. of India and Universities abroad.

Virtual meet with VJTI Textile Diploma Students

A webinar on "Technical Textile and Opportunities for Textile Diploma Students" was organized by our institute on 25th June 2021 by using Google Meet. This was organized for textile diploma students of VJTI in the context of career prospects after higher education. About 50-55 students attended this webinar. Prof. Dr. Y. M. Indi from DKTE & Prof. S. N. Tetambe from VJTI were coordinators for this webinar. Prof. Rajanna Gotipamul presented the scope of the technical textiles in India and Abroad. Regarding opportunities for textile diploma students in First year UG admission, Prof. Dr. S. B. Mhetre highlighted the various B. Tech courses in DKTE and career opportunities in different industries. He also addressed and explained the admission procedure to the students with reference to First and Direct Second year UG admission, fee structure, scholarships, CET exam and CAP registration to the students.



Virtual meeting with SASMIRA students

A webinar on "Technical Textile and opportunities for Textile Diploma students" was organized by our institute on 19th March to the textile diploma students of SASMIRA, Mumbai. About 40- 45 students attended this webinar. Prof. Rajanna Gotipamul & Dr. S. B. Mhetre presented the glimpses of the technical textile and opportunities for textile diploma students. Information regarding admission procedure for diploma students in FY UG, fees structure, scholarships, CET exam and CAP registration were addressed by both the speakers.

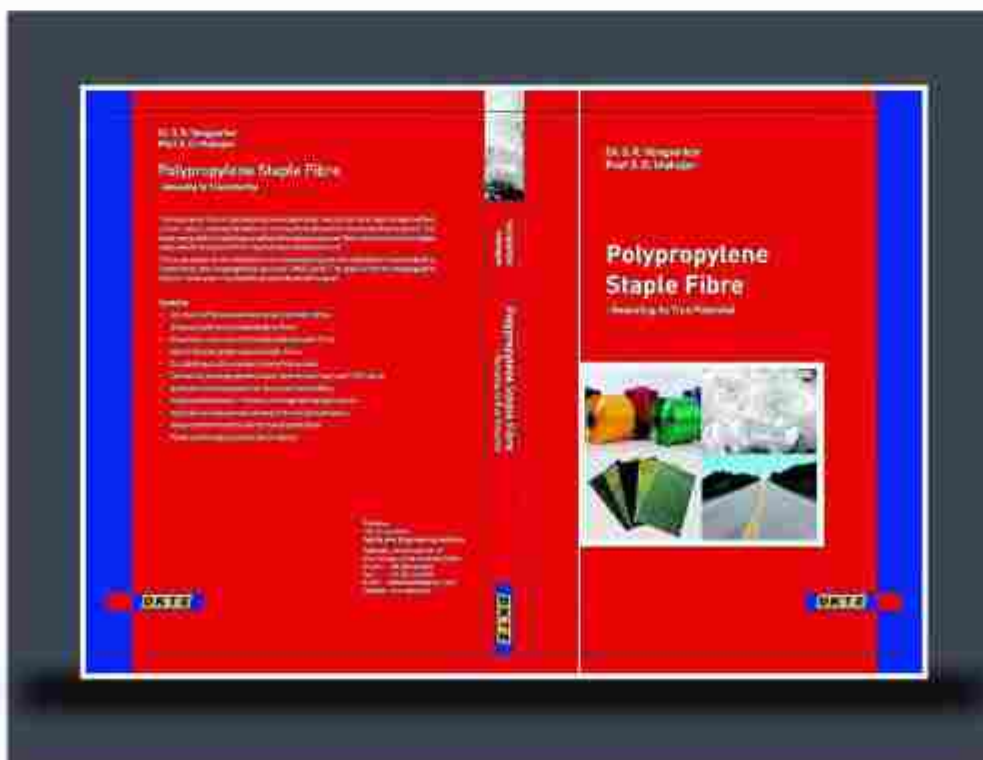
FACULTY CORNER

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



BOOK PUBLICATION

DKTE has published a book on "Polypropylene Staple Fibre – Revealing its True Potential". The ISBN of the book is 978-93-5391-986-3. The book has contributions from the experts having rich experience in fibre manufacturing and technical textiles field. The book covers the manufacturing, characteristics of polypropylene staple fibres, polypropylene spun yarn for technical textiles, and applications of polypropylene fibres in technical textiles and denim fabrics. The book is worth a collection for those connected to technical textiles.



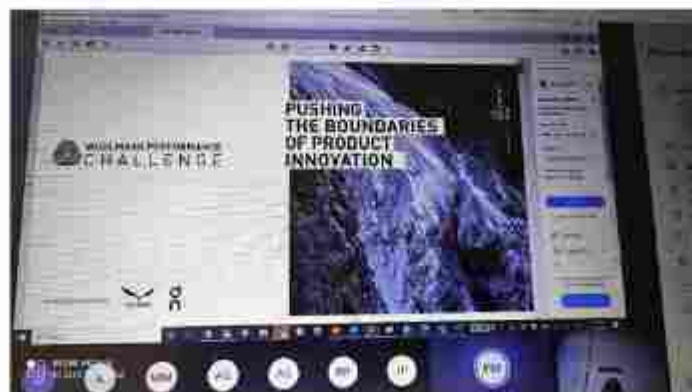
PH.D. Awarded



Mr. Saatish Lavate, Faculty from Textile Department has been awarded the Ph.D. degree in Textile Engineering by Shivaji University Kolhapur. His topic of the research work was "Studies on Yarns and Fabrics made from Bamboo fibres and its blends", under the guidance of Prof. (Dr.) P.V.Kadole. Our Chairman Honourable Shri, Kallappa Anna Awade Dada felicitated Dr. Lavate and wished him all Success in the future endeavours. Director Prof. (Dr.) P. V. Kadole and Dy. Director Prof. (Dr.) U. J. Patil were present on this occasion.

Annual Innovative Idea Development

Dr. S.S. Lavate participated in 'Woolmark Performance Challenge' (WPC) discussion organised by "Woolmark". WPC is Annual Innovative Idea Development Competition arranged for UG, PG, Ph.D. students by Woolmark Company Australia, carrying 10000 GBP cash prize for the winner, sponsored UK Tour and 3 months paid internship at 'Salewa'- one of the reputed mountain wear manufacturing companies to the winner.



STUDENT CORNER



An Incredible Feat

Ms. Ashwini Sahadeo Kanekar, a student of the Textile Department, brought laurels to the institute by scoring All India Rank-First in the Graduate Aptitude Test in Engineering (GATE) – 2021, under Textile Engineering & Fibre Science (TF). This has made every DKTEian proud for standing First in All India Rank in TF @GATE-21. We congratulate her and wish the best for her successful and bright future!

DKTE
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Website : www.dkte.ac.in, www.facebook.com/dktextil

First Rank
All India Level-GATE 2021

Ms. Ashwini Sahadeo Kanekar,
B.Tech. (Textile Chemistry)

Congratulations...!

Higher Education

Selection for National Overseas Scholarship

Mr. Shivtej Gasti – B. Tech Fashion Technology student of DKTE, got admission for Masters in International Business at 'University of New South Wales Sydney, Australia' with National Overseas Scholarship of Rs. 82 Lakhs.



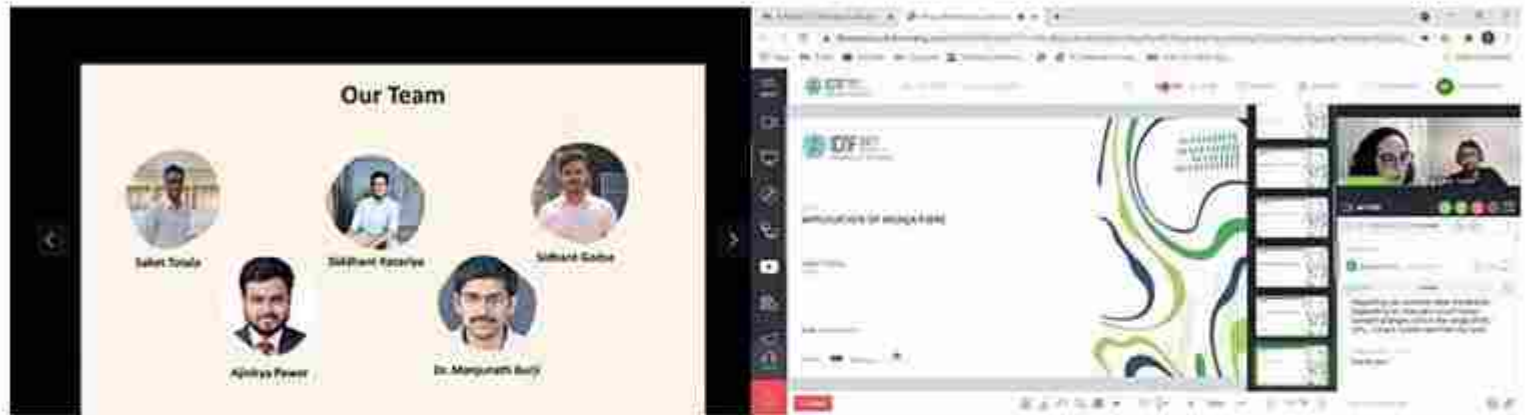
Selection at Hof University of Applied Sciences, Germany

TY B. Tech students, Mr. Kaliya Ram Ramesh Kumar and Mr. Nuruzzaman Nahid are selected by Hof University of Applied Sciences, Germany to study their 6th Semester at Hof University under credits transfer scheme. The credits transfer scheme is one of the activities of the MoU signed between our institute and Hof University, Germany.



Paper Presentation in International Conference

Saket Totala, Siddhant Katariya, Sidhant Godse, and Ajinkya Powar presented a technical paper in the acclaimed conference 'International Conference on Natural Fibres 2021- Materials of the future', organized by the University of Minho, Portugal. They were the youngest presenters in the conference and presented on the topic "Applications of Munja Fibre". Also, they have received a grant of 200 Euros (Approx. 19,000/- INR) from AICTE for presenting the paper in this International Conference, under the travel-grant scheme.



AWARDS

Secured second rank in national level event

Pranjali G. Vaidya, Second Year Fashion Technology has Won Second Prize in the event "Andazz"- a National Level Competition organised by 'Mehr Chand Mahajan DAV College for Women, Chandigarh' held on March 14th, 2021. This competition was held to promote recycling of old clothes and participants in this competition had to recycle an old dress and share their new version.




Importance of responsible garment:

1. Protection and to reduce
2. It is eco friendly good for environment
3. Can save lots of natural resources
4. It also feel more and fresh clothing

RECIPIENTS:

1. Garment 1
 (Sustainable garment) "A Garment"
 Steps to create it:
 1. Take old shirt
 2. Take components of the old clothes to design
 3. Cut the shirt according to the required size for the dress
 4. Make the garment to new pattern

Description of garment

It like look with more color and different design from fashion where we added more belt for styling and good appearance.

2. Garment 2
 (Sustainable garment) "Elegant gown"
 Steps to create it:
 1. Take old saree
 2. Take components of the old clothes to design
 3. Cut the saree according to the required size and pattern for the gown
 4. Make the garment to new design and pattern

Description of garment

Participants with little hand made it into good and presentation the model appears and is given to girl (Pranjali) that and she had more beauty because of this so give good appearance to the garments. The subject is of used an additional more.



Before



After



Before



After

DKTE Students Project Team Stands 6th in NIC 2020

A Project Group from our institute figured at 6th position in National Innovation Contest 2020 (NIC 2020) organized by the Ministry of Education, Govt. of India and AICTE New Delhi. The Students project group from the Textile Engineering Department and Electronics Engineering Department have developed a multidisciplinary project "Smart Weaving Machine Prototype Model (RETRO-TEXRAP-I)".



Raviraj Patil (Team leader)

Textile Department



Tejas Patil



Omkar Patil



Savarbh Kesor



Kush Tiwari



Siddharth Jondode



Pranav Kerkale

Electronics department



Prajwal Patil



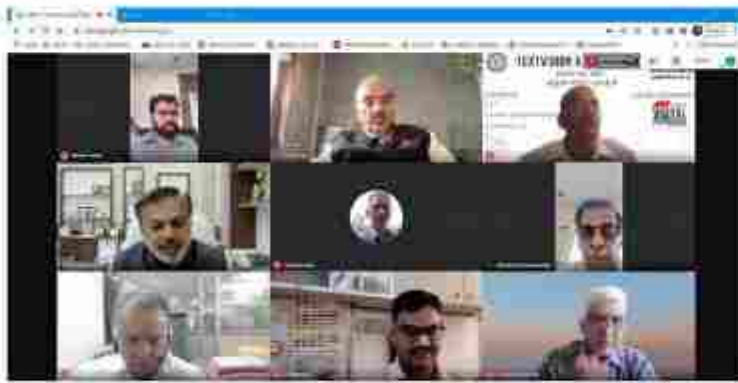
Omkar Patil



Ankar Pashale

Textvision and Fashionova 2021

Textvision and Fashionova 2021



A virtual International Textvision and Fashionova 2021 event was jointly organised by DKTE and Textile Association of India Ichalkaranji-Miraj Unit on 20th April 2021. The Chief Guest for the inaugural ceremony was Mr. Snehal Shah - Chairman, Moksha Thermoplastic Ltd. Ahmedabad. He enlightened participating students with his inspiring words. Prof. (Dr.) P. V. Kadole Director spoke on the need of organising this kind of event. Mr. R. Sampat and Mr. C. R. Jamdar President and Vice President of Textile Association India Ichalkaranji-Miraj Unit spoke on the role of technicians in the present scenario of textile industries and advised the students to update themselves to achieve their goals. More than 125 students from various International Universities such as 'Hof University Germany', 'BGMEA Bangladesh', 'Northern University Bangladesh', 'SAXION University Netherlands', 'Wuhan University China' and National Institutions like 'IIT Bombay', 'Sona College', 'BIET Davangere', 'Bannari Amman Inst. of Technology' and 'PSG College of Technology from Coimbatore', etc. actively took part in this event.



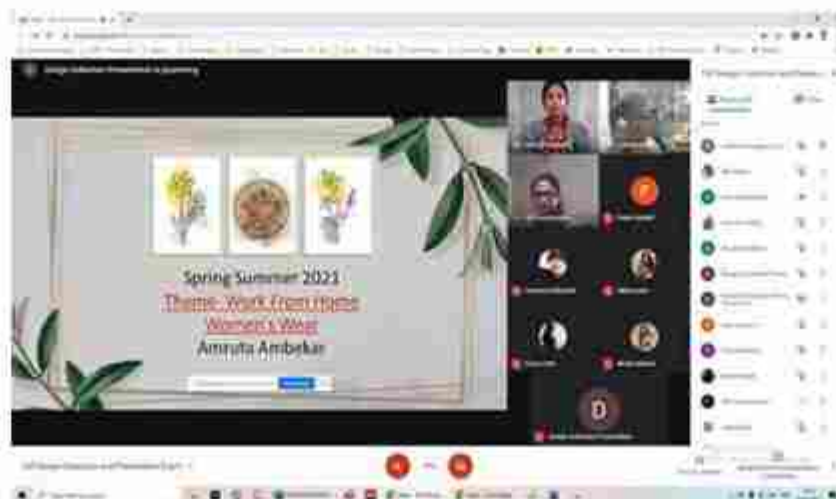
EQUIPTOTECH

EQUIPTOTECH was one of the events under Textvision and Fashionova organized on 20th April 2021 jointly by the Textile Department and Textile Association Ichalkaranji Miraj unit. Participants from all across India as well as from abroad took part in this event. Students from colleges like BGMEA University of Fashion and Technology- Bangladesh, Bangladesh University of Textiles - Bangladesh, Hof University of Applied Sciences - Germany, Northern University Bangladesh, PSG College of Technology, Modern college- Pune, Uttar Pradesh Textile technology Institute, Bannari Amman institute of Technology - Sathy , Bapuji Institute of Engineering & Technology , Govt. Sri Krishna Rajendra Institute of Technology- Bengaluru , DKTE Society 's Textile and Engineering Institute, Ichalkaranji enthusiastically participated in the event. The judges for the event were Mr. Sambhaji Pandhare and Prof. (Dr.) S.B. Mhetre.



Virtual Design Collection and Presentation

Virtual Design Collection and Presentation was another important event under International Textvision and Fashionova 2021. The event was all about presenting the garment designs on the theme ' Work from Home / Virtual meetings'. Participants from across India as well as from abroad took part in this event. Students from the institutes - Wuhan Textile University-Wuhan Hubei China, School of Fashion Technology, Sona College of Technology, Dayanand College - Latur, Government Polytechnic Aurangabad , Nikalas Mahila Mahavidyalay - Nagpur, DKTE Society's Textile and Engineering Institute, Ichalkaranji enthusiastically participated in the event.



ALUMINI

CORNER

DKTE



Mr. Atul Gosavi

Mr. Atul Gosavi completed his B. Text in Textile Plant Engineering in 1991 from DKTE Society's Textile and Engineering Institute, Ichalkaranji. For the last 18 years, he has been working as a General Manager (Technical) & Sales Director at K. S. Perfection Industries Co. Ltd. (Thai Japan group). He also worked as a production and technical manager with Sahib Textile Pvt. Ltd. for 3 years. He has experience of around 6 years as a maintenance manager at Mastex Company Limited, Thailand.



Mr. Chandrashekhar Phadnis

Mr. Chandrashekhar Phadnis completed his B. Text in Man Made Textile Technology in 1992 from DKTE Society's Textile and Engineering Institute, Ichalkaranji. He has 30 years of wide experience in the field of Textiles. He started career from Indira Gandhi Mahila Sahakari Soot Girni, Ichalkaranji. He is presently working as a Managing Director at Ajara Spinning Mills, Ajara. He participated in different social and cultural activities as an Actor, Speaker and He is having active participation in Marathi Kavyalekhan. He has also been the President of State level Drama Competition.

Technical Article

Application of Biotechnology in Textile Industry

Pallavi S. Gudulkar (Third year TC)

Biotechnology is the application of biological systems found in organisms or the utilisation of living organisms themselves to achieve technical advancements and adapt those advancements in multiple areas. Biotechnology is a field that is transforming traditional textile production into environment friendly processing. It consists of numerous enzymatic treatments in order to conserve natural resources, decrease waste and lower the cost. Biotechnology has a wide range of applications in the textile industry including improvement in natural fibres, novel fibres and polymers, treatment of waste of textile manufacturing and processes. Biotechnology has the potential to play a key role in the development of polymeric materials as well as the production of natural fibres.

Bollgard cotton often known as Bt cotton was developed by inserting the cry1Ac gene, an insecticidal protein obtained from the bacterium *Bacillus thuringiensis* into cotton seeds to give them increased pest resistance. Cotton that has been genetically modified has the cry1Ac gene in its genome and may thus produce its own crystal hazardous protein. Bt cotton agriculture requires half the number of pesticides resulting in less contamination of the soil, water and air. The yield of Bt cotton with the same hybrid is 10–15 percent to even 25–30 percent higher than non-Bt cotton with the same hybrid. Aside from improving and transforming existing natural fibres, the development of completely new sources of polymers, fibres and auxiliary products based on techniques like bacterial fermentation, growth of fungal microbial fibre masses and production of fungal pigments etc. are possible due to biotechnology.

Bio cellulose, also known as bacterial cellulose which is produced by bacteria. Bio cellulose is made by growing acetic acid bacteria, such as *acetobacter acetic* (1 x 2 to 1 x 3 mm in size), for 7 to 10 days at 30 degree celcius in a medium containing 5% sucrose, nitrogen and salt. This bacterial strain creates a gel-like material with fine cellulose fibres that is too thin (approximately 20 - 50 nm in diameter) to be classified using traditional denier units. It has a high degree of crystallinity, a high degree of polymerisation, strong tensile and tear strength and a high degree of hydrophilicity. It is employed in microsurgery as an artificial blood vessel.

Bacterial polyester is produced by more than 100 bacterial species including *alcaligenes* species, *bacillus* species, photosynthetic bacteria and blue green algae. Polyester generated in this manner is kept in the bacterial body as 0.5 to 1.0 micrometre-sized particles that can be removed using an organic solvent. A new approach for efficiently producing bacterial co-polymeric polyester by fermenting a suitable combination of bacteria and food was recently discovered.

The diverse application areas of spider silk include bullet-proof clothing, wear-resistant lightweight clothes, ropes, nets, seat belts, parachutes, rust-free panels on motor vehicles or boats, biodegradable bottles, bandages and surgical thread. Desizing, scouring, bleaching and finishing are just a few of the wet textile pre-treatment and finishing procedures that include enzymes (biostoning and biofinishing). Enzyme-based technology is more reliable and adaptable and it uses less energy. In the textile sector, the application of enzymes satisfies the current demand for environment friendly operations.

Considering the wide variety of applications of biotechnology in the textile sector, biotechnology plays a vital role in improvement of sustainable production techniques. It is dependable, cost-effective and environment friendly. Biotechnology is being used in numerous sectors of the textile industry to make operations more efficient as well as time-saving and yet it still has more potential to expand its reach.

UG & PG PROGRAMS OFFERED

UNDER GRADUATE	INTAKE
B.Tech. Textile Technology	60
B.Tech. Man-Made Textile Technology	30
B.Tech. Textile Plant Engineering	30
B.Tech. Textile Chemistry	60
B.Tech. Textile Engg.(Fashion Technology)	30
B.Tech. Mechanical Engineering	90
B.Tech. Computer Science & Engineering	120
B.Tech. Electronics & Tele-Communication Engg	120
B.Tech. Civil Engineering	60
B.Tech. Electrical Engineering	60
B.Tech. Computer Science & Engg.(Artificial Intelligence)	60
B.Tech. Artificial Intelligence(AI) & Data Science	60
POST GRADUATE	INTAKE
M.Tech. Textile Engineering	12
M.Tech. Electronics & Tel-Comm.Engineering	12
M.Tech. Mechanical Engineering (Product Design & Dev.)	12
M.Tech. Computer Science & Engineering	12
M.Tech.Defence Technology	12
MANAGEMENT STUDIES	INTAKE
M.B.A. (Master of Business Administration)	120
DOCTORATE – Research Center	
Ph.D. Textile Engineering, Electronics Engg., Mechanical Engg., Computer Science & Engineering	