



## INSIDE THIS ISSUE

---

**PG. 5-14**

Student Corner

---

**PG. 15-19**

Faculty Corner

---

**PG. 20-22**

Alumni Corner

# TEXTILE TIMES

DEPARTMENT OF TEXTILE ENGINEERING

JAWAHARLAL NEHRU GOVERNMENT

ENGINEERING COLLEGE SUNDERNAGAR (HP)

Website: [jngec.ac.in](http://jngec.ac.in), Email: [headtextilejngec@gmail.com](mailto:headtextilejngec@gmail.com)





# ABOUT INSTITUTE

## JNGEC SUNDERNAGAR

Jawaharlal Nehru Government Engineering College, Sundernagar, Mandi, HP (JNGEC) is an AICTE Approved, State Government funded engineering college. It is located at Sundernagar, District Mandi and is affiliated to Himachal Pradesh Technical University (Him.T.U.), Hamirpur. The institute offers 4-year Bachelor of Technology courses in disciplines viz Mechanical Engineering, Textile Engineering, Civil Engineering, Electronics & Communication Engineering and Computer Science Engineering (AI & ML). The institute also offers a 2-year Master of Technology course in Civil Engineering.

Our Motto "उद्योगः सर्वार्थ साधकम्"  
**"Industrialization solves everything"**



# ABOUT DEPARTMENT

## DEPARTMENT OF TEXTILE ENGINEERING

The Department of Textile Engineering was started in 2006 with the inception of this college and is one of its kind in the state of H.P. The Department offers B.Tech. in Textile Engineering with the aim of providing students with technical and specialized knowledge as well as with the theoretical foundation necessary for development.

**Vision:** To become a renowned Textile center for quality teaching, research, and innovation.

### Mission:

- ❖ To strengthen the core competence in Textile Engineering through balanced and dynamic curriculum.
- ❖ To encourage research and development in the emerging areas of Textile Engineering and promote Institute – Institute and Industry – Institute Linkages.
- ❖ To inspire students to improve quality of life, creation of wealth and economic development of the country.

# DIRECTOR'S MESSAGE

**DR. (PROF.) S. P. GULERIA**

**Dear Students, Faculty, and Staff**

I am delighted to address you all through the inaugural edition of the Textile Engineering Department's Newsletter. This publication marks a significant milestone for our department, as we aim to enhance communication, share achievements, and foster a sense of community among all stakeholders.

The Textile Engineering Department has a rich legacy of excellence in education and research, and this newsletter will serve as a platform to showcase the remarkable work done by our talented students, dedicated faculty, and supportive staff members. It is a testament to our collective efforts and the strides we have made in advancing textile engineering education.

In our department, we firmly believe in the power of knowledge and its transformative potential. Our students are the future leaders of the textile industry, and we are committed to providing them with a comprehensive education that prepares them to tackle the challenges of a rapidly evolving field. Through this newsletter, we will highlight the innovative teaching methods, cutting-edge research, and industry collaborations that shape our curriculum and ensure our students receive a well-rounded education. Additionally, this newsletter will provide a platform to showcase achievements, share insights, and inspire others to pursue excellence in their own research endeavors. We also recognize the importance of creating a vibrant and inclusive community within our department. Through this newsletter, we will celebrate the accomplishments of our students, whether it be academic achievements, leadership roles, or participation in extracurricular activities. We also aim to provide a forum for student voices, enabling them to share their experiences, ideas, and aspirations with the wider departmental community.

Furthermore, the newsletter will feature articles and updates on the various events, workshops, and seminars organized by our department. These activities are designed to enhance learning, promote collaboration, and foster a spirit of lifelong learning among our students and faculty. Finally, I extend my heartfelt appreciation to all the students, faculty, staff, alumni, and industry partners who have contributed to the success of the Textile Engineering Department. Your support, enthusiasm, and unwavering commitment have been instrumental in shaping our department into what it is today.

I wish you all a rewarding and successful journey ahead, and I look forward to witnessing the continued growth and achievements of our Textile Engineering Department.



Warm regards,

*S. P. Guleria*

Dr. (Prof.) S. P. Guleria  
Director-cum-Principal,  
JNGEC Sundernagar

# HOD'S MESSAGE

**ER. PARVEEN KUMAR**

**Dear Students, Faculty, and Staff**

It gives me immense pleasure to address you all through the first edition of the Department of Textile Engineering's newsletter at JNGEC Sundernagar. This newsletter is a testament to our department's commitment to fostering communication, sharing knowledge, and celebrating the achievements of our talented community. The Department of Textile Engineering at JNGEC Sundernagar has always been at the forefront of imparting quality education and nurturing future textile engineers. This newsletter provides a platform to highlight the significant milestones, accomplishments, and contributions made by our students, faculty, and staff.



Our department has a strong focus on academic excellence, and we take pride in providing our students with a comprehensive and industry-relevant curriculum. Through this newsletter, we will showcase the exceptional work of our students, highlighting their academic achievements, research projects, and innovative ideas. I encourage all students to actively participate and contribute to the various opportunities available within our department. Our dedicated faculty members play a pivotal role in shaping the future of our students. They are not only experts in their respective fields but also passionate mentors who go the extra mile to ensure that our students receive a holistic education. This newsletter will provide a platform for our faculty to share their research findings, industry collaborations, and teaching methodologies, inspiring both students and colleagues alike.

Furthermore, this newsletter will serve as a bridge between the department and our esteemed alumni, industry partners, and stakeholders. It will provide a glimpse into the achievements and progress made by our department and serve as a testament to the quality of education we provide. We value the continued engagement and support of our alumni and industry partners, and we encourage them to stay connected and contribute to our collective growth. I would like to extend my heartfelt appreciation to the team of editors and contributors who have put in tireless efforts to bring this newsletter to life. Their dedication, creativity, and commitment to excellence are evident in every page. I would also like to thank the faculty and staff members who have contributed their valuable insights and articles for this inaugural edition.

As we embark on this exciting journey with our first newsletter, I urge all members of the Department of Textile Engineering to actively participate, contribute, and engage with this platform. I extend my best wishes to each member of our department for a successful and fulfilling academic journey. Let us continue to strive for excellence, embrace innovation, and make a positive impact in the field of textile engineering.

Warm regards,

*Parveen Kumar*

Er. Parveen Kumar  
Head of Department, Textile Engineering  
JNGEC Sundernagar



# EDITOR'S MESSAGE

**DR. DINESH BHATIA & ER. ANKUSH SHARMA**

**Dear Textile Engineering Community**

Welcome to the inaugural edition of our department's newsletter! We are thrilled to launch this new initiative to connect, inform, and inspire all members of the JNGEC Sundernagar Textile Engineering family. As the editors of this newsletter, we are excited to bring you the latest updates, achievements, and insights from our department. Textile Engineering is a vibrant and dynamic field that plays a crucial role in various industries, ranging from fashion and apparel to technical textiles and advanced materials.



Our department at JNGEC Sundernagar is dedicated to fostering excellence in textile education, research, and innovation. Through this newsletter, we aim to create a platform for sharing knowledge, celebrating achievements, and promoting collaboration within our community. In each edition, you can expect to find a wide range of content. We will feature articles written by faculty members, researchers, and students, covering topics such as emerging textile technologies, sustainable practices, design trends, and industry partnerships. We will also highlight the accomplishments of our department members, including research publications, conference presentations, and noteworthy projects. Additionally, we will keep you informed about upcoming events, workshops, and seminars that are relevant to our field. Whether it's a guest lecture by an industry expert or a student-led initiative, we want to make sure you stay up to date with all the exciting opportunities happening within our department.

We also want to hear from you! This newsletter is a collaborative effort, and we welcome contributions from all members of our community. If you have an interesting project, research findings, or an inspiring story to share, please reach out to us. Together, we can create a vibrant and engaging newsletter that reflects the diverse talents and achievements of our department. We hope this newsletter becomes a valuable resource for all of you, serving as a catalyst for knowledge exchange, networking, and professional growth. We encourage you to read, engage, and share this newsletter with your peers, colleagues, and friends who may be interested in the fascinating world of Textile Engineering.

Thank you for your support, and we look forward to embarking on this exciting journey together!

Sincerely,

*Dinesh Bhatia    Ankush Sharma*

Editors  
Newsletter (Textile Engineering)  
JNGEC Sundernagar



# STUDENTS CORNER

## INSIDE THIS EDITION

Placement of Final Year Students		6
Industrial Projects of Students with Stipend	ACADEMICS	7
GATE Results of 2023		7
Conference Participation at IIHT Varanasi		8
Conference Participation at NIT Jalandhar		8-9
Industrial Visit of 3rd Year	INTERACTION WITH OUTSIDE WORLD	10
Hackathon Participation		11
KAVACH Participation		11
GATE Mock Test		12
Declamation Contest	TECHNICAL CLUB (TECH TEX)	12
Paper Presentation		12
Cleanliness Drive		13
HPTU Sports Meet		13
TWASK 2023 President	CO-CURRICULAR ACTIVITIES	14
NCC SUO Selection		14
NSS Camp Participation		14
IIT Mandi Cultural Event Participation		14





# ACADEMICS

## PLACEMENT OF FINAL YEAR STUDENTS

### Congratulations to the Textile Engineering Final Year Students on their Placements!

We are pleased to provide you with a summary of the placement outcomes for the final year students of the Textile Engineering program. The following nine students have been successfully placed in renowned companies within the textile industry.

As for the pending companies, Trident, RSJ, Winsome, and Bureau Veritas etc. they are yet to visit the campus for further recruitment for 2023.

We are confident that these placements will provide our students with valuable industry exposure and a solid foundation to embark on successful careers in the textile engineering field. We will continue to support and guide our students in securing placements with other esteemed organizations as well. Please note that the information provided is based on the current status of placements, and any updates or additional placements will be communicated in due course.



**Rajni Kumari**  
Reliance Indus. Ltd.



**Ishita Garg**  
Vardhman Indus Ltd.



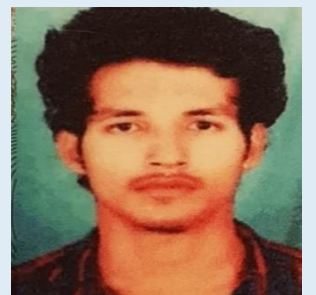
**Shubham Negi**  
Indorama Ltd.



**Aman Nag**  
Aarti Int. Ltd.



**Abhishek Kumar**  
Indorama Ltd.



**Abhishek Shukla**  
Indorama Ltd.



**Aakash Malhotra**  
Aarti Int. Ltd.



**Utkarsh Tripathi**  
Aarti Int. Ltd.



**Shahid Akhtar**  
Crown Int. Textiles Ltd.



# INTERNSHIP

## INDUSTRIAL PROJECTS OF STUDENTS WITH STIPEND

We are pleased to present the industrial training program report for the final year textile engineering students. A total 22 students have been selected for a six-month industrial training in reputed textile companies across India. This opportunity will allow them to gain practical knowledge and hands-on experience in the field.

It is noteworthy that seven out of the 22 selected students will receive a stipend for their industrial training. This is a testament to the students' capabilities and the industry's recognition of their potential. The stipend not only provides financial support but also adds value to their training experience. The industrial training program aims to bridge the gap between theoretical knowledge and practical application in the field of textile engineering. By working in real-world industrial settings, the students will enhance their technical skills, gain industry-specific insights, and develop a professional work ethic.

The department would also like to express its appreciation to the participating textile companies for providing these valuable training opportunities to our students. Their support and collaboration are instrumental in shaping the future of our budding textile engineers.



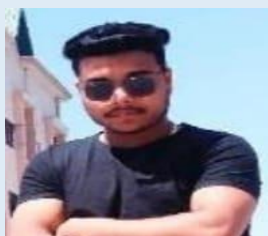
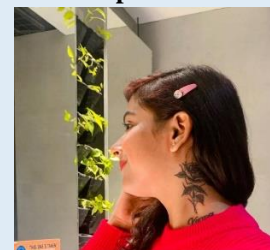
**Abhinav**  
Impulse Group Ltd  
7500 per month



**Rajni Kumari**  
Kisco Int. Pvt. Ltd  
15000 per month.



**Puneet & Sonika**  
(Asmara Group Ltd. 7500 per month each)



**Shubham, Abhishek, Abhishek (Indorama Ltd. 15000 per month each)**



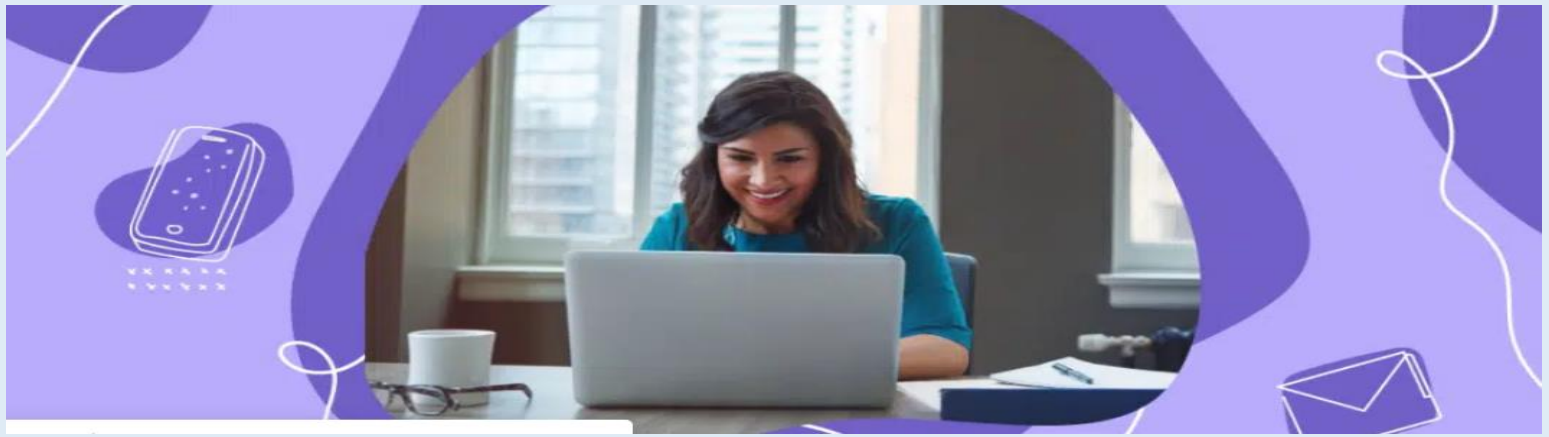
The Textile Engineering Department is pleased to announce the results of the Graduate Aptitude Test in Engineering (GATE) 2023 for the Textile Engineering and Fibre Science discipline. Among the numerous participants, we would like to highlight the exceptional performance of Vanshika Sharma, who secured an impressive All India Rank of 137.

Vanshika Sharma's achievement is commendable, considering the rigorous nature of the GATE examination and the high level of competition among aspirants in the field of Textile Engineering and Fibre Science. This remarkable accomplishment reflects Vanshika's dedication, hard work, and proficiency in the subject matter. We congratulate Vanshika Sharma on her exceptional performance in the GATE 2023 examination. We are confident that her accomplishments will inspire and motivate fellow students to strive for excellence in their academic pursuits.



**Vanshika Sharma**  
AIR 137





# INTRACTION WITH THE OUTSIDE WORLD

## CONFERENCE PARTICIPATION AT IIHT VARANASI



Naman Tiwari and Rahul Kumar Rajak, who secured the 2nd position in the first national-level technical symposium, Hand Tex Fest 2023 on Technical Textiles. The event was held at the prestigious Indian Institute of Handloom Technology (IIHT) in Varanasi from 19th to 20th April 2023.

The department congratulates Naman Tiwari and Rahul Kumar Rajak on their outstanding accomplishment at Hand Tex Fest 2023. Their success not only brings recognition to themselves but also reflects positively on our institution and the quality of education imparted to our students. We extend our appreciation to the Indian Institute of Handloom Technology (IIHT), Varanasi, for organizing this remarkable event that provides a platform for students to showcase their talents and promote technical advancements in the field of Textiles

## CONFERENCE PARTICIPATION AT NIT JALANDHAR

19 students from the 2nd and 3rd year of Textile Engineering participated in the 3rd International Conference on Emerging Trends in Traditional and Technical Textiles. The conference took place at Dr. B.R. Ambedkar National Institute of Technology in Jalandhar from 28th to 30th April 2023. The conference served as a platform to discuss and explore the latest advancements, research findings, and emerging trends in the field of Traditional and Technical Textiles. It brought together researchers, academicians, industry professionals, and students to exchange knowledge and foster collaborations. Number of Participants: Out of 19 students, 9 students give oral presentations, and 10 students present their poster. We express our gratitude to Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, for organizing this insightful conference and providing our students with the opportunity to showcase their talents and learn from distinguished experts in the field.







## DETAILS OF PARTICIPANTS FOR 3RD INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN TRADITIONAL AND TECHNICAL TEXTILES

S.No.	Name	Roll No.	Topic	Participation
1	Abhay Kumar	20010107001	Coolmax Fabric	Poster
2	Aseem Supan	20010107003	Textile material used in Space suit	Oral Presentation
3	Prerana	20010107006	Traditional Textiles of Himachal Pradesh	Oral Presentation
4	Rahul	20010107007	Textile material used in Space suit	Oral Presentation
5	Richa	20010107008	Biotechnology in Textile	Poster
6	Vanshika	20010107009	Green synthesis of nanoparticle using extract and their application for sustainable textile finishes	Oral Presentation
7	Vanshita	20010107010	Biotechnology in Textile	Poster
8	Farhan	21020107005	Medical Textile	Oral Presentation
9	Indonia Preet Kaur	21020107006	Traditional Textiles of Himachal Pradesh	Oral Presentation
10	Piyush	21020107011	Coolmax Fabric	Poster
11	Shikhar Pandey	21020107014	Advanced liver transplant	Poster
12	Yatharth	21020107016	Medical Textile	Oral Presentation
13	Maihak	22020107011	Dyeing and Printing of Eri Silk	Oral Presentation
14	Rahul Kumar Rajak	22020107016	Dyeing and Printing of Eri silk	Oral Presentation
15	Manish Maurya	22020107012	Textiles for Functional application	Poster
16	Ansumwi Brahma	22020107001	Mosquito repellent textile finishing using natural products	Poster
17	Sonia Basunatory	22020107022	Mosquito repellent textile finishing using natural products	Poster
18	Kamal Singh Negi	21010107009	Nanotechnology in Textile Industry	Poster
19	Aradhya Singh	22020107002	Textiles for Functional application	Poster







## INDUSTRIAL VISIT OF 3<sup>RD</sup> YEAR



An industrial visit was organized for twenty-Six 3rd-year students of Textile Engineering department, accompanied by Dr. Dinesh Bhatia and Er. Ankush Sharma, to two prominent textile manufacturing units: Auro Spinning Mill and Auro Weaving, located in Baddi (HP). The purpose of the visit was to provide students with practical exposure to the textile manufacturing processes and familiarize them with the industry's operations.

On 17<sup>th</sup> April 2023, the students visited Auro Spinning Mill. During the visit, they had the opportunity to witness various stages of the spinning process, including raw material handling, carding, drawing, roving, and spinning. The following day, on 18<sup>th</sup> April 2023, the students visited Auro Weaving. Here, they had the opportunity to observe the various stages involved in the weaving process, including yarn preparation, warping, sizing, and actual weaving.



The industrial visit provided valuable insights into the textile manufacturing processes, industry practices, and quality control measures followed in these renowned companies. Such visits play a crucial role in bridging the gap between theoretical knowledge and practical applications, preparing students for successful careers in the textile industry. We express our gratitude to Auro Spinning Mill and Auro Weaving for allowing our students to visit their facilities and providing valuable insights into their operations.





**D**epartment of Textile Engineering, JNGEC organize an Idea Pitching Competition on 25<sup>th</sup> March 2023 in the department Hall C-101.

A total of 06 teams from 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year students of the department of Textile Engineering JNGEC had registered earlier for the competition. The ideas were assessed based on guidelines provided by Start-up and Incubation cell. Based on the assessment of the jury the best 3 teams were selected as Techtex, Dynamics and Vision



**J**NGEC Startup and incubation cell hosted the KAVACH 2023 idea pitching competition on March 28<sup>th</sup>-29<sup>th</sup> 2023 in the institution conference hall. A total of 14 teams across JNGEC Sundernagar were chosen from all departments out of which 04 teams were from the Textile engineering department.

The team presentations were evaluated according to the criteria laid by the startup and incubation cell. The event was coordinated by Dr. Dinesh Bhatia Chairman Startup and Incubation cell. The jury has selected 03 teams of the department of the Textile engineering, which will submit their proposal for KAVACH 2023 at national level competition.







# TECHNICAL CLUB (TECH TEX)

## TECHNICAL PAPER PRESENTATION

Technical Paper Presentation competition was organized by Department of Textile Engineering in Conference Hall of the Institution on 19th November 2022 at 02:00 PM.

A total of 19 students of the textile engineering department participated in aforesaid competition. Out of all the participants Ms. Ishita Garg (4th year) secured first position, Mr Abhishek Kumar (4th year) and Piyush & Abhay (3rd year) secured 2nd position and Ms Rajni and Mr. Aseem Supan secured 3rd position. Winners were felicitated by mementoes and certificates and all the remaining participants were felicitated by certificates.



## GATE MOCK TEST

GATE mock test competition (Textile Engineering and Fibre Science) was organized on 1st October 2022 in the computer center of the institute at 1:00pm- 4:00pm. A total of 60 numbers of students from 2nd, 3rd and 4th year B. Tech students of Textile Engineering participated in the aforesaid test.

Prof. Rajeev Khanduja (Chief Guest), OIC Textile Engineering, staff members of computer center, all faculty and staff members of Textile Engineering were present during valedictory Session. The winners of the test were awarded a certificate and a memento as a token of appreciation.



## DECLAMATION CONTEST

Intra Department Presentation and Declamation Competition organized by the Textile Department's Technical Club on 29th May 2023. The event took place in Room C-103 of the department and focused on the topic "Making the World Free from Plastic Waste" under the theme of "Mass Mobilization on Mission: Lifestyle for Environment in Himachal Pradesh." The Department of Textile Engineering is delighted to announce that Ms. Oinam Mrinalini Devi, a 2nd-year student, emerged as the winner of the competition. Additionally, Ms. Vanshita, Sharma also a 2nd-year student, secured the second prize for her impressive declamation.





## CO CURRICULAR ACTIVITIES



### CLEANLINESS DRIVE

The cleanliness drive was conducted by the students of the Textile Engineering Department on 20th May 2023, in celebration of World Environment Day. The theme for the cleanliness drive was "Plastic Free World." The objective of the drive was to create awareness about the detrimental effects of plastic pollution and promote responsible waste management practices among the students and the community.

Before the event, students organized an awareness campaign, spreading the message of a plastic-free world through posters, social media, and word-of-mouth. On the day of the cleanliness drive, participants gathered at the designated location and were provided with gloves, trash bags, and other necessary equipment. The students divided themselves into teams and proceeded to clean the surroundings, including the college campus,

### HPTU SPORTS MEET 2023

HPTU Sports Meet held at the Himalayan Group of Colleges in Kala Amb, District Sirmour, Himachal Pradesh, from 1st May to 3rd May 2023. The event witnessed active participation from various departments, including the Textile Engineering Department.

A total of 32 participants from our institution, including 5 students from the Textile Engineering Department, took part in the Volleyball event. The participants showcased exceptional teamwork, dedication, and sportsmanship throughout the tournament.

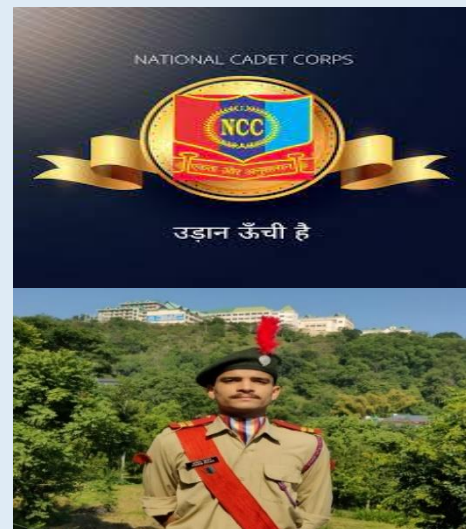






Congratulations to Utkarsh Tripathi on your remarkable achievement! It is with great pleasure that we extend our heartfelt congratulations to you on being selected as the President of TWASK 2023. Your dedication, leadership qualities, and commitment to excellence have clearly earned you this prestigious position. As a fourth-year Textile Engineering student, you have shown exceptional talent and remarkable skills in your field.

It is our utmost pleasure to extend our heartfelt congratulations to Aseem Supan (3<sup>rd</sup> year Textile Engineering) on being selected as the Senior Under Officer of the NCC Army wing of JNGEC under 2HP BN NCC Mandi. Additionally, we would like to congratulate you on your selection for the Ek Bharat Shrestha Bharat (EBSB 2023) Camp at Malerkotla, Punjab. Your dedication, discipline, and commitment to service have set you apart, and these accomplishments reflect your exceptional leadership skills and unwavering determination. As the Senior Under Officer, you have the opportunity to lead and inspire your peers, making a significant impact within the NCC Army wing. Furthermore, your selection for the Ek Bharat Shrestha Bharat Camp is a testament to your exceptional talent and your ability to represent your institution and state on a national platform. This camp provides a unique opportunity to foster cultural exchange, promote unity, and showcase the rich diversity of our nation.



Out of the 17 students from JNGEC Sundernagar, five students from the Textile Engineering department have been selected to participate in the esteemed Cultural and Literary Fest, "EXODIA 2023," scheduled to take place at IIT Mandi, Himachal Pradesh from 5th to 7th May 2023.



This is an outstanding achievement for our institution and an excellent opportunity for our talented students to showcase their skills, creativity, and knowledge on a grand platform. Being chosen to represent JNGEC Sundernagar among numerous other institutions is truly commendable and speaks volumes about the caliber of our students.



In a remarkable display of social responsibility and community engagement, 15 students

from the Textile Engineering department participated in a 7-day NSS (National Service Scheme) camp held at Village Chamukha (Dhar). The camp, aimed at fostering social awareness and contributing to the development of rural communities, provided a unique opportunity for the students to make a positive impact on society.





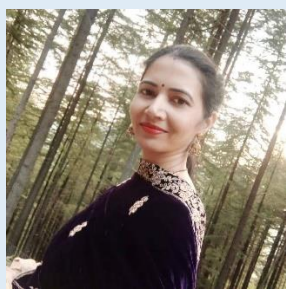
## INSIDE THIS EDITION

Faculty Publication	16
Guest Lectures Delivered	17
Guest Lecture Organized	18
NBA Visit	19
PhD Submission	19
PhD Awarded	19

## FACULTY/STAFF OF DEPARTMENT OF TEXTILE ENGINEERING



ER. PARVEEN KUMAR (HOD)



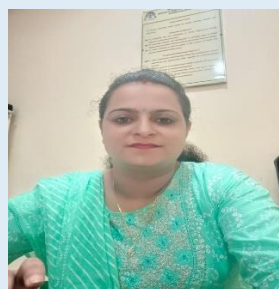
ER. PRIYA JASWAL



ER. URVASHI MALHOTRA



DR. AMIT KUMAR



ER. PREETI GAUTAM



ER. VIVEK SHARMA



ER. ANKUSH SHARMA



DR. DINESH BHATIA



ER. AKSHAY SHARMA



ER. AJAY KUMAR



ER. MUKESH KUMAR





# FACULTY PUBLICATIONS

## RESEARCH PAPERS/BOOKS/CHAPTERS PUBLISHED IN ACADEMIC YEAR 2022-23

Sr. No	Faculty Name	Name of Journal /Conference	Title
1.	Dr. Dinesh Bhatia	Textile & Leather Review	A study on fatigue behaviour of cotton/lycra core sp yarns
2.	Ms. Priya Jaswal	Journal of Industrial Textiles	Improvement in the performance of two layered mod pavement with treated coir geotextile at the interface
3.	Ms. Priya Jaswal	Journal of Industrial Textiles	Investigation on tensile strength characterization untreated and surface treated coir geotextiles
4.	Ms. Priya Jaswal	International Journal of Pavement Research and Technology	Experimental Study on Monotonic Behaviour of Two Layered Unpaved Road Model Reinforced with Treated Coir Geotextiles
5.	Dr. Amit Kumar	Materials Chemistry and Physics	Durable antibacterial cotton fabric via spray-coating photocatalytic MoS <sub>2</sub>
6.	Dr. Amit Kumar	ACS Applied Engineering Materials	Durable Thermoregulating, Antibacterial, and UV Protective Smart Cotton Embedded with Polyethylene Glycol and BaTiO <sub>3</sub>
7.	Dr. Amit Kumar	Journal of Alloys and Compounds	Poling effect on Piezo catalytic antibacterial and dye degradation activities of BaTiO <sub>3</sub> nanoparticles embedded cotton fabric
8.	Dr. Amit Kumar	Journal of Natural Fibers	BaTiO <sub>3</sub> nanoparticles embedded Antibacterial Cotton Fabric with UV Protection Characteristics
9.	Dr. Amit Kumar	Scientific Reports	Cotton functionalized with polyethylene glycol and graphene oxide for dual thermoregulating and UV protection applications
10.	Dr. Amit Kumar	Environmental Science and Pollution Research	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanoparticle-loaded cotton fabric for dual photocatalytic antibacterial and dye degradation applications
11.	Er. Priya Jaswal	3 <sup>rd</sup> International Conference on Emerging Trends in Traditional and Technical Textiles (NITJ)	Impact of reinforcing treated coir geotextiles on the functional performance of unpaved roads
12.	Er. Preeti Gautam	3 <sup>rd</sup> International Conference on Emerging Trends in Traditional and Technical Textiles (NITJ)	Prospects of immobilized enzymes in wet processing.
13.	Er. Vivek Sharma	3 <sup>rd</sup> International Conference on Emerging Trends in Traditional and Technical Textiles (NITJ)	Sustainable textile finishing with biopolymer-based microencapsulation of essential oils: A review of recent advances.
14.	Er. Vivek Sharma	International E-Conference on Emerging Technology Versus Sustainability in Fashion and Textile Industry (KCTC)	Microencapsulation by conservation technique: a versatile approach for finishing of textile



## GUEST LECTURES DELIVERED

A highly informative and engaging guest lecture was organized by the Development Commissioner Kullu, (Handicrafts) under the Ministry of Textile, on 31st March 2023. The seminar aimed to provide valuable insights and guidance on the selection of effective trade names or brand names and the creation of product identity in the competitive market. The lecture was delivered by Er. Ankush Sharma and Dr. Dinesh Bhatia



During his presentation, Er. Ankush Sharma highlighted the importance of conducting thorough research to ensure that the chosen name does not infringe upon any existing trademarks or copyrights. He emphasized that a well-crafted tradename not only differentiates a brand from its competitors but also conveys the brand's values, identity, and promise to the consumers.



Following Er. Ankush Sharma's lecture, Dr. Dinesh Bhatia, an expert in product identity creation, took the stage. Dr. Bhatia's presentation focused on the creation of product identity using brand names and logos, and the impact of product identity in a competitive market. Dr. Bhatia discussed how a strong and cohesive product identity helps businesses establish a unique position in the market, attract consumers, and build brand loyalty. He emphasized the importance of creating a consistent and visually appealing brand identity, including logos, packaging, and other brand elements, to effectively communicate the brand's values and offerings.



The Development Commissioner (Handicrafts) Kullu, along with the Ministry of Textile, deserves commendation for organizing this valuable seminar, which enriched the participants' understanding of effective tradename selection and product identity creation.





## GUEST LECTURES ORGAISED

The Textile Engineering department organized a highly informative and insightful guest lecture on the development of a novel fluorocarbon coated acquisition-barrier fabric layer for incontinence application. The lecture was delivered by Dr. Rupali Dhiman, an esteemed Ex. Senior Scientific Officer and Assistant Professor at NITRA (Northern India Textile Research Association). The event took place in the conference hall on 4th May 2023. During her presentation, Dr. Rupali Dhiman highlighted the challenges faced by individuals suffering from incontinence and the need for advanced textile solutions that prioritize both absorbency and liquid barrier properties. She explained how the novel fluorocarbon coating technology can significantly enhance the fabric's ability to absorb and retain liquid while effectively preventing leakage.



The lecture was attended by faculty members, and students from the Textile Engineering department, who actively engaged in the discussion and posed thought-provoking questions to Dr. Rupali Dhiman. The audience greatly appreciated the opportunity to learn from her extensive experience and research expertise. The department's initiative to organize such guest lectures highlights its commitment to providing students and faculty with exposure to cutting-edge research and developments in the textile industry. It serves as a platform for knowledge exchange and encourages interdisciplinary collaboration among researchers, industry professionals, and students.



The Startup cell organized an insightful guest lecture on developing entrepreneurship skills in textile engineering students. The lecture was delivered by Mr. Rohit Verma, an esteemed Assistant Professor of Management at MLSM College Sundernagar. The event took place on 25th April 2023. Mr. Rohit Verma, known for his expertise in entrepreneurship and management, captivated the audience with his in-depth knowledge and practical insights. His lecture focused on equipping students with the necessary skills and mindset to become successful entrepreneurs in the textile industry. The guest lecture concluded with a vote of thanks to Mr. Rohit Verma for his valuable insights and guidance. The Textile Engineering department expressed gratitude for his contribution in fostering an entrepreneurial spirit among the students. The department's initiative to organize such guest lectures reflects its commitment to providing students with a well-rounded education that extends beyond technical knowledge.





## NBA ACCREDITATION

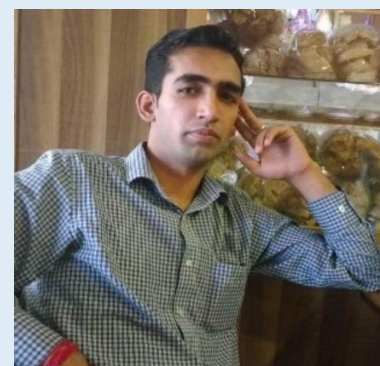


The Department of Textile Engineering recently welcomed a team from the National Board of Accreditation (NBA) for an accreditation assessment visit. The visit, which took place from 26th to 28th May 2023, aimed to evaluate and assess the department's academic programs, infrastructure, faculty, and overall quality of education. During their visit, the NBA team conducted detailed discussions with faculty members to gain insights into the teaching and learning processes, curriculum updates, and faculty development initiatives. They interacted with students to understand their experiences, learning outcomes, and opportunities for skill development and department got accreditation for three years up to session 2024-25.

In a moment of pride and accomplishment, Mr. Amit Kumar, Assistant Professor of Textile Engineering at JNGEC Sundernagar, was awarded his Ph.D. for his exceptional research on "Multifunctional Thermoregulating, Catalytic, and UV Protective Ferroelectric Particles Embedded Cotton." The doctoral defense, which took place on 20th March 2023 at IIT Mandi, marked a significant milestone in the field of textile engineering.

The successful completion of his Ph.D. is a testament to Mr. Amit Kumar's intellectual prowess, dedication, and research acumen. As an Assistant Professor of Textile Engineering at JNGEC Sundernagar, his achievement brings pride not only to himself but also to the institution. It serves as a shining example of the faculty's commitment to cutting-edge research and innovation in the field of textile engineering.

## PHD AWARDED



## PHD SUBMITTED



In a significant development in the field of textile engineering, two Assistant Professors from textile engineering JNGEC Sundernagar, Ankush Sharma and Priya Jaswal, submitted their PhD theses at the Department of Textile Technology, NIT Jalandhar. The successful completion and submission of their PhD thesis exemplify the dedication, perseverance, and scholarly capabilities of Ankush Sharma and Priya Jaswal. Their achievements bring honor not only to themselves but also to JNGEC Sundernagar. It highlights the institution's commitment to fostering a culture of research and innovation among its faculty members.





# ALUMNI

## CORNER

### INSIDE THIS EDITION

Success stories	21
Alumni pursuing higher study at abroad	22



**Group Photo of Batch 2018-2022**



## SUMESH MINHAS'S JOURNEY FROM JNGEC STUDENT TO MANAGER OF GLOBAL RETAIL SOLUTIONS/TECHNICAL SERVICES IN INDIA

Sumesh Minhas, a bright and ambitious student, enrolled at JNGEC Sundernagar with a passion for engineering. As Sumesh neared the end of his academic journey at JNGEC, he was offered an internship with a renowned Vardhman spinning ltd Baddi. Starting as a textile graduate trainee at the same company that had offered him the internship, Sumesh consistently impressed his superiors with his technical acumen, problem-solving abilities, and dedication to delivering top-notch solutions.

Sumesh's hard work and dedication did not go unnoticed. Within a few years, he was promoted to a managerial position, leading a team of skilled professionals in the company's global retail solutions and technical services division. Sumesh's exceptional performance and leadership caught the attention of the company's headquarters. Recognizing his potential, the company decided to appoint Sumesh as the Manager of Global Retail Solutions/Technical Services for their Indian operations.

Sumesh's journey from a student at JNGEC Sundernagar to the Manager of Global Retail Solutions/Technical Services in India became an inspiration for aspiring engineers and entrepreneurs. He became a sought-after speaker at industry conferences and mentorship programs, sharing his experiences and knowledge to empower the next generation of professionals.



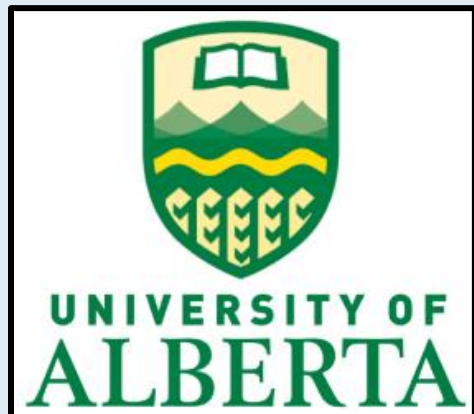
## THE INSPIRING JOURNEY OF RADHIKA VAID: HOW HARD WORK AND PERSEVERANCE LED TO SUCCESS



Radhika Vaid, a talented and driven individual, began her journey in JNGEC Sundernagar. During her time at JNGEC, Radhika developed a keen interest in the field of materials science and engineering. Radhika set her sights on IIT Delhi for her master's degree. At IIT Delhi, she specialized in polymer science and engineering, immersing herself in the study of advanced materials and their applications. After completing her masters, Radhika got an opportunity to work as a Scientist in Aditya Birla Science and Technology Company in Mumbai. She worked there for almost three years and gained a lot of experience in her field. However, she always had a desire to pursue a Ph.D. and explore more in her field of interest.

In 2015, Radhika enrolled for Ph.D. in Materials Science and Engineering at North Carolina State University in the United States. Her doctoral research focused on developing innovative solutions in the field of polymer and textile engineering, with a particular emphasis on medical applications. After successfully completing her Ph.D., Radhika joined Edwards Lifesciences as a Principal Engineer, responsible for leading research initiatives in the development of polymers and textiles. Radhika's role at Edwards Lifesciences allows her to combine her passion for materials science with her commitment to improving patient care. Radhika Vaid's journey from a small town in India to becoming a respected leader in the field of materials science and engineering is a testament to her perseverance, passion, and dedication.

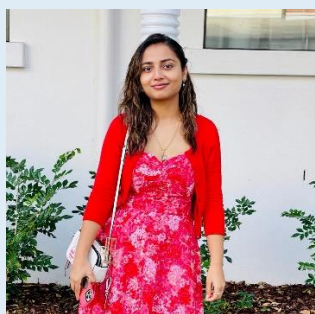




**Dr. Rupali Dhiman**, an alumni of JNGEC (Textile Engineering) from 2010 to 2014, has been admitted in May 2023 to the prestigious Postdoctoral program at the University of Alberta, Canada. Furthermore, she holds a Ph.D. and M.Tech. from the esteemed Indian Institute of Technology (IIT) Delhi, Department of Textile Technology.



Dr. Dhiman's admission to the Postdoctoral program at the University of Alberta is a testament to her commitment to furthering her expertise and research in Textile Engineering. The University of Alberta is renowned for its strong research programs and provides an ideal platform for her to collaborate with leading experts in the field.

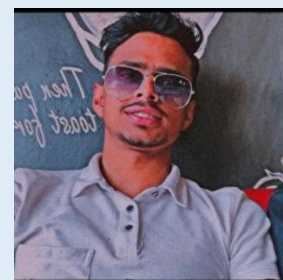


**Ms. Vashali Nath**, an alumni of JNGEC in Textile Engineering from 2016 to 2020, has recently been admitted to the Master of Design program at Curtin University, Australia, commencing in September 2022. Her exceptional performance during her undergraduate studies laid the foundation for her academic achievements.

Vashali Nath's admission to the Master of Design program at Curtin University signifies a significant milestone in her academic and professional journey. Her educational background, research interests, and notable skills position her as a promising candidate who will contribute to the field of design and textile engineering.



**Mr. Vikas Sharma**, an alumnus of JNGEC (Jawaharlal Nehru Government Engineering College) in Textile Engineering from 2016 to 2020, has recently been admitted to the Master of Management for Engineers program at Central Queensland University, commencing in September 2022.



The program at Central Queensland University is designed specifically for engineers, offering a unique combination of engineering and management knowledge to enhance their leadership and managerial capabilities.

The first edition of the Textile Engineering Department Newsletter of JNGEC Sundernagar captures the essence of our department's accomplishments and aspirations of the period August 2022 – June 2023. We hope that this newsletter serves as a platform to foster stronger connections among our faculty, students, alumni, and industry partners, and that it inspires readers to stay engaged with the dynamic world of textile engineering.

***Thank you for your support, and we look forward to bringing you more updates and insights in future editions!***