

## Bio Data



Name: - **Arun Kumar Singh Gangwar**

Designation: **Professor,**

Department: - **Textile Technology**

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<b>Academic Qualification</b>	<b>Year of Completion</b>	<b>Area of Specialization</b>
PhD.	2022	Textile Engineering
PG.	2012	Textile Technology
UG.	1989	Textile Technology

### **Administrative Portfolio (Held as on today):**

1. Purchase officer, Nodal officer-E-Tender
2. HOD: Man Made Fibre Technology
3. Exam Superintendent.

### **Published Work.**

#### **A. List of Research Paper Published in SCI International Journals:**

<b>Details of Research Paper Published</b>
1. <b>“OPTIMIZATION OF SODIUM LIGNOSULFONATE TREATMENT ON NYLON FABRIC USING BOX-BEHNKEN RESPONSE SURFACE DESIGN FOR UV PROTECTION”</b> AUTEX Research Journal, Vol. 22, No 2, June 2022, 248-257. DOI 10.2478/aut-2021-0011
2. <b>“Sodium Lignosulfonate: an Industrial Bio-Waste for the Colouration and UV Protective Finish of Nylon Fabric ”</b> , FIBRES & TEXTILES in Eastern Europe 2022; 30, 1(151):77-85.DOI:10.5604/01.3001.0015.646DOI:
3. <b>“Role of Lignin Enriched Natural <i>Sesbania aculeata</i> (Dhaincha) Fiber for</b>

<b>Ultraviolet Protection and Thermal Comfort of Woven Textiles”</b> Journal of Natural Fibers. 2022 Aug 25:1-5.
4. <b>“Pashmina fiber blended woven fabrics for high functional performances”</b> Journal of Natural Fibers, 2022, VOL. 20, NO. 1, 2139324
5. <b>“Antimicrobial and UV protection finishing of cotton fabric with copper nanoparticles synthesized using S.cumini leaf extract”</b> Clean Technologies and Environmental Policy, 19 July 2024 , <a href="https://doi.org/10.1007/s10098-024-02933-9">https://doi.org/10.1007/s10098-024-02933-9</a>

## B. International journal (Other than SCI)

S.No	Title of paper	Authors	Journal	Page No. & Vol.
1.	Application of Non-woven Textiles in agriculture.	Kamal Kr. Gupta, Arun Kumar Singh Gangwar, Mahendra Uttam & Dr. Prashant	Pakistan textile journal	p/ 53-55, July 2007
2.	Influence of carding variables on openness and other properties of cotton fibres	Arun Kumar Singh Gangwar,	Pakistan textile journal	P / 48-51, Feb.2009
3.	Influence of carding parameters on fibre orientation sliver.	Arun Kumar Singh Gangwar & Prashant.	3 <sup>rd</sup> International Textile Conference at SSM college of engineering, Komarapalayam. Tamil Naidu	Published in book of papers (28 <sup>th</sup> - 30 <sup>th</sup> Aug. 2009)
4.	Influence of centrifugal force on yarn characteristics	Dr. Anju Katiyar, Devendra Prasad & A.K.S.Gangwar	Golden Research Thoughts	Sept2012

## C. National Journals

S. No	Title of paper	Authors	Journal	Page No. & Vol.
1.	Prevention of foreign ends in PB Fabrics	Arun Kumar Singh Gangwar & Mahendra Uttam	The Textile Magazine	P / 53, Vol.42,No.10,A ug.2001
2.	Role of Temperature in Smart Textiles	Arun Kumar Singh Gangwar	work shop on “Smart Textiles & Instrumentation”	P / 79-87, Dec. 9 <sup>th</sup> -19 <sup>th</sup> 2002

			organized by GCTI Kanpur sponsored by DSTE	
3.	Influence of fibre quality parameters on ring yarn characteristics.	Arun Kumar Singh Gangwar & Mahendra Uttam	The Textile Magazine	P / 68-69, Vol.45, No.4, Feb.2004
4.	Maximum realization out of left over grey yarn	Arun Kumar Singh Gangwar & Mahendra Uttam	Man Made Textiles in India	P / 191-192, Vol. XLVII No.5, May2004
5.	Influence of increase in D/F passages on ring yarn features.	Arun Kumar Singh Gangwar, Mahendra Uttam & Shraddha Awasthi	The Textile Magazine	P / 74-75, Vol.46 No.5, March2005
6.	Quality yarn by optimizing roving twist	Arun Kumar Singh Gangwar & Mahendra Uttam	The Textile Magazine	P / 41-42, Vol.46, No.7, May2005
7.	Better yarn realization through optimization of Pneumafil waste in ring spinning	Arun Kumar Singh Gangwar & Mahendra Uttam	Man Made Textiles in India	P / 197-199, May2005
8.	Effect of single yarn strength on tensile strength of cotton fabric	Mahendra Uttam & Arun Kumar Singh Gangwar	Man Made Textiles in India	P / 30-34, Jan.2006
9.	Effect of blend composition on worsted yarn characteristic	Arun Kumar Singh Gangwar, Mahendra Uttam & Kamal Kr. Gupta	The Textile Magazine	P / 80-81, Vol.47, No.7, May2006
10.	Developments in medical textiles	Arun Kumar Singh Gangwar & Dr. Prashant	News & Views, OBA(regd)GCTI, Kanpur	P / 1-2, Vol.1, No.2, Jan.2007
11.	Widespread use of woven textiles in agriculture	Kamal Kr. Gupta, Arun Kumar Singh Gangwar, Mahendra Uttam & Dr. Prashant	The Textile Magazine	P / 114-115, Vol.48, No.5, May2007
12.	Interactive Electronic Textile	K.K.Gupta & Arun Kumar Singh Gangwar,	The Textile Magazine	P / 98-100, Vol.48, No.10, Aug2007
13.	Sophisticated fibres	Arun Kumar Singh Gangwar, Mahendra Uttam & Dr. Prashant	News & Views, OBA(regd)GCTI, Kanpur	P / 1-2, Vol.2, No.2, Jan.2008
14.	Widespread use of Protective clothing in agriculture & horticulture	Arun Kumar Singh Gangwar & Dr. Prashant	All India seminar on futuristic textiles organized by The Institution of Engineers	P / 88-91, 9 <sup>th</sup> & 10 <sup>th</sup> Feb. 2008

			(India)	
15.	Technical textiles in Agriculture & Horticulture	Mahendra Uttam, Arun Kumar Singh Gangwar, & Dr. Prashant	Textile review	P / 7-17, Vol. 3, Issue 5, May 2008.
16.	Application of formic acid: zero streaks in Polyester dyed Fabric.	Arun Kumar Singh Gangwar, Mahendra Uttam & Dr. Prashant	Dayanand Journal of Sciences (An International Journal of Sciences)	P / 145-148, Vol.1, No.1, July 2008.
17.	Developments in spinning	Mahendra Uttam, Arun Kumar Singh Gangwar, & Dr. Prashant	News & Views, OBA (regd) GCTI, Kanpur.	P / 1-3, Vol.3, No.1, Oct.2008
18	Influence of carding parameters on openness and cleaning of cotton fibres	Arun Kumar Singh Gangwar,	The Textile Magazine	P / 51-54, Vol.50,No.4, Feb2009
19.	Enzymes in textiles	Alak Kumar Singh, Arun Kumar Singh Gangwar, & Mahendra Uttam	GENESIS2009 A National Symposium on Recent Technological Developments in Bio Process & Food Processing Industries organized by HBTI Kanpur.	14-15 Feb. 2009
20.	Effect of Carding Parameters on Processibility of cotton fibres	AKSGangwar	Man Made Textiles in India	P / 317-322, September2009.
21.	Application of knitted textiles in agriculture	Arun Kumar Singh Gangwar & Mahendra Uttam	Man Made Textiles in India	November 2009.
22.	Uster solutions	A.K.S.Gangwar	News & Views, OBA (regd) GCTI, Kanpur	P / 3-4&7, Vol. 4,No.2, January2010
23.	Enrichment of The “King of Fabric” by Sodium Alginate & its blend with Gaur Gum	PriyankaKesarwani,ArchanaSingh & AKSGangwar	Journal of the Textile Association	P/14-18,Vol-71No.-1,May-June2010
24.	Eco friendly Golden fibre – Jute.	Arun Gangwar, M. Uttam & N.B.Singh	Man Made Textiles in India	P/122-126 April2011.
25.	Spider Fibres	M.Uttam & AKSGangwar	News & Views OBA (Regd)GCTI Kanpur.	P/2&6Vol 6., No.1, Oct.l2011.
26.	Screen & covers in Agrotech-	Arun Kumar	MCUP & IE(I),	P58-61, 3 <sup>rd</sup> June,

	A Unique Use	Singh Gangwar	Kanpur	2012
27.	“Textile Mercerization”	Arun Kumar Singh Gangwar	Man Made Textiles in India,	July 2012, 238- 240.
27.	Influence of centrifugal force on yarn characteristics	Dr. Anju Katiyar, Devendra Prasad & A.K.S.Gangwar	Golden Research Thoughts	Sept2012
28.	Present status of some natural fibres	A.K.S.Gangwar	Fibre to finish	2013
29.	Polymeric Optical Fibres	Arun Kumar Singh Gangwar & M. Uttam	National Seminar in Shatabdi celebration UPTTI,Kanpur	1&2Nov,2014
30.	“Widespread use of polymeric nano fibres	Devendra Prasad & <u>Arun Kumar Singh Gangwar,</u>	Indian stream research journal	Volume-5, Issue-8, Sept.- 2015, p1-7.
31.	Recent developments in reactive dyes with their widespread applications on cellulosic materials	Sanjeev Kumar Rajput & <u>Arun Kumar Singh Gangwar</u>	Golden research thoughts	Volume-5, Issue-3, Sept.- 2015, p1-7
32	Processing of bulk of polyester blended fibres through optimization of carding variables	Arun Kumar Singh Gangwar, Prashant & Mahendra Uttam	Science Park research Journal	Volume-3, Issue-7, Aug.- 2015, p 48- 52.
33	“Influence of Openness of Cotton Fibres on Yarn Characteristics”	Arun Kumar Singh Gangwar,	Man Made Textiles in India,	June 2017, 196- 199
34	Role of Lignin in sun protective clothing.	Arun Kumar singh Gangwar,Mukes h Kumar Singh & prashant	Man Made Textiles in India	P/383-386 Nov. 2017

35	."A brief study on Glass fibres",	Arun Kumar singh Gangwar	National Seminar in celebrations 105 Heritage of GCTI-Kanpur Platinum Jubilee of OBA GCTI organized in Association wth UPTTI Kanpur,	1 <sup>st</sup> Dec. 2019
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### Online NPTEL courses done from Swayam:

S. No.	Details
1	Completed online NPTEL 8-Week Course (Feb. - April, 2020) on "Enhancing Soft Skills and Personality".
2	Completed online NPTEL 8-Week Course (Jan.- March, 2021) on " Emotional Intelligence".
3	Completed online Course teaching Module 1-8 of National Initiative for Technical Teachers Training.

### Seminar /Conference/Workshop/Training Organized (Till date)

S. No.	Details
1	National seminar on "Indian Textiles: Vision 2020" organized by OBA (Regd) GCTI, Kanpur from Sept30th to Oct 1 <sup>st</sup> , 2007.
2	All India seminar on "Futuristic Textiles" organized by The Institution of Engineers (India) at Merchant chamber's U.P. Kanpur on 9 <sup>th</sup> & 10 <sup>th</sup> Feb.2008.
3	Worked as course coordinator in TEQIP work shop on "Textile Testing" organized by Department of Textile Technology, UPTTI, Kanpur from 3-2-2009 to 5-2, 2009.
4	Successfully organized in the capacity of program coordinator, a two days workshop on " <b>Industry Academia Meet-2K19</b> ", sponsored by TEQIP-III, at UPTTI, Kanpur on 1-2, March 2019.
5	Successfully organized in the capacity of program convener, a two days Hackathon on " <b>Smart Textile Hackathon2K19</b> ", sponsored by TEQIP-III, at UPTTI, Kanpur on 27 <sup>th</sup> & 28 <sup>th</sup> September, 2019.
6	Successfully organized in the capacity of program coordinator, a one day workshop on " <b>Industry Institute Meet-2021</b> " at UPTTI, Kanpur on 13th, Nov. 2021.
7	Successfully organized in the capacity of Organizing Secretary, a two days International conference on " <b>Advances in Textile Materials &amp; Processes</b> ", (ATMP-2021) organized by UPTTI, Kanpur during 17-19, Nov. 2021.
8	Successfully organized in the capacity of program coordinator, a one day workshop

	on “ <b>Industry Institute Meet-2022</b> ” at UPTTI, Kanpur on 4th, March 2022.
9	Successfully organized in the capacity of program coordinator, a one day BIS program on “ <b>Standardization in Field of Protective Clothing’s</b> ” at UPTTI, Kanpur on 5th, April 2022.

## **Seminar /Conference attended (till date)**

### **(A.) INTERNATIONAL-**

1. International conference on “Futuristic trends in Textiles” organized by the department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar from 10-12 Dec.2007.
2. Participated in 5<sup>th</sup> International exhibition and conference on “**Technical Textiles- Technotex-2016**” Jointly organized by Ministry of textiles, Govt. of India and FICCI, Maharastra from 21-13, April 2016 in Mumbai.
3. International conference on “Advance Materials,Textiles and Processes” organized by UPTTI, Kanpur from 14-15 Oct.2017.

### **(B) NATIONAL-**

- [1.] One day seminar sponsored by Paramount group on FUTURE TRENDS IN TEXTILE TESTING AND QUALITY CONTROL organized by NCUTE, I. I. T. New Delhi on 3<sup>rd</sup> Sept. 2002.
- [2] National seminar on “Indian Textiles: Vision 2020” organized by OBA (Regd) GCTI, Kanpur from Sept30th to Oct 1<sup>st</sup>, 2007
- [3.] All India seminar on “Futuristic Textiles” organized by The Institution of Engineers (India) at Merchant chamber’s U.P. Kanpur on 9<sup>th</sup> & 10<sup>th</sup> Feb.2008.
- [4.] One day seminar sponsored by GTZ Proklima on “**Phasing out of carbon tetra chloride**” at UPTTI, Kanpur on Sept. 12<sup>th</sup> ,2008
- [5.] National conference on “Advanced Polymers, Fibres and Fabrics” organized by DMSRDE, Kanpur from 26-28, Dec.2011.
- [6. [Participated in “**State Level Faculty Interaction Seminar**” held during 08-09 June, 2015 at HBTI, Kanpur.
- [7.] Participated in National Seminar on Innovation, skill development & entrepreneurship in textiles and annul function cum allumni meet held on 18<sup>th</sup> March 2016.
- [8.] Participated in National Conference on “Recent Advances in Polymer Technology held on 16-17, Feb. 2018. Organized by UICT-NMU, Jalgaon.
- [9.] Participated in National Seminar on “Thermal behavior of materials” held on 27-28, Feb. 2018.

## **Training programs attended (till date)**

- (i) NCUTE-(B.R.) programme held at GCTI Kanpur /Ministry of Textiles from 20-02-1999 to 21-02-1999.
- (ii) Short -Term programme on “Application of computer in textiles”. held at GCTI Kanpur/ISTE New Delhi from June 5-17, 2000.
- (iii) Short -Term programme on “Textiles in 21<sup>st</sup> century”. held at GCTI Kanpur/ISTE New Delhi from 3-07-2000 to 15-07-2000.
- (iv) Short -Term programme on “Technological developments in textiles”. held at GCTI Kanpur/ISTE New Delhi from Dec 24 –Jan 5<sup>th</sup> 2002.
- (v) Short -Term programme on “Eco-friendly Chemical Technologies”. held at HBTI Kanpur /AICTE New Delhi from March 11-24, 2002.
- (vi) Instructor Trg. Programme for one week by TUKATECH.INC.USA on 10<sup>th</sup> April 2002
- (vii) Short -Term programme on “Global Industrial Concepts in textiles”. held at GCTI Kanpur from 10-01-2005 to 21-01-2005.
- (viii) Work shop on “Consultancy and services sector: challenges and prospects” at hotel Land Mark Kanpur on 20-2-2006 organized by Consultancy Development Centre New Delhi & UPICO Kanpur sponsored by Department of Scientific & Industrial Research, Ministry of Science & Technology, Govt. of India.
- (ix) Work shop on “New Technology & Modifications in existing Knitting Machines” at UPTTI, Kanpur on 26-2-2007 organized by Hosiery Consultancy Clinic Kanpur & UPTTI, Kanpur.
- (x) TEQIP work shop on “Advances in fabric manufacturing process” organized by Department of Textile Technology, UPTTI, Kanpur from 20-10-2008 to 22-10, 2008..
- (xi)TEQIP work shop on “Modern analytical techniques for research and industry” organized by Department of chemistry, HBTI, Kanpur from Nov 10-14, 2008.
- (xii) TEQIP work shop on “Eco-Friendly wet processing in textile industry” organized by Department of Textile chemistry, UPTTI, Kanpur from Nov 24-26, 2008.
- (xiii) TEQIP work shop on “Testing of adulterating materials in food items” organized by Department of Chemistry, UPTTI, Kanpur from March 2-4, 2009.
- (Xiv) Participated in “**State Level Workshop on Curriculum Development in Textiles**” held during 13-14 July, 2015 at UPTTI, Kanpur.
- (xv) Participated in AICTE recognized Short Term Course on “**Strategic Planning & Management in Technical Institutions**” organized by NITTTR, Chandigarh (Ministry of Human Resources Development, Government of India) at U P Textile Technology Institute, Kanpur during 17.08.2015 to 21.08.2015.



(xvi) .Participated in Dr. A P J A K Technical University, Lucknow recognized Faculty Development Programme on “**Application of Nanotechnology in Textile Engineering**” organized by U P Textile Technology Institute, Kanpur during 18.01.2016 to 23.01.2016.

(xvii) Participated in workshop for syllabus revision from 28<sup>th</sup>-29<sup>th</sup>, April 2016

**Paper Presented/Lecture delivered:**

S. No.	Details
1	Presented paper on “Role of Temperature in Smart Textiles” in a work shop on “Smart Textiles & Instrumentation” organized by GCTI Kanpur sponsored by DSTE 9-19 Dec. 2002.
2	Delivered lecture in TEQIP work shop on “Advances in fabric manufacturing process” organized by Department of Textile Technology, UPTTI, Kanpur from 20-10-2008 to 22-10, 2008
3	Presented paper on “Maximum realization of PV Blends through Optimizing the Processibility of PV fibres at carding stage” in National conference on “Advanced Polymers, Fibres and Fabrics” organized by DMSRDE, Kanpur from 26-28, Dec.2011
4	Delivered lecture in work shop on “Tear, Bursting Abrasion test of Textiles” organized by Regional training Institute of Ordnance factory, Kanpur, on 21-1-2015.
5	Presented paper on “ <b>Purchase Procedure of E Learning resources in Library</b> ” in Short Term Training (One week) Program on “ <b>Radio Frequency Identification</b> ” held on 18-22 September, 2017 organized by UPTTI Kanpur in collaboration with UICT, KBCNMU Jalgaon under TEQIP-III
6	Presented paper on”Parameters affecting UV protection on textile material” in International conference on “Advance Materials, Textiles and Processes” organized by UPTTI, Kanpur from 14-15 Oct.2017.
7	Presented paper on “ <b>Agro-Textiles</b> ” in FDP on Modern Advancements in Textiles held on October 23-27, 2017 organized by UPTTI Kanpur in sponsored by IRDT Kanpur
8	Presented paper in seventh conference on “ <b>Recent Advances in Polymer Technology</b> ” (RAPT-2018) held on Feb. 16-17, 2018 organized by UICT, NMU, Jargon.
9	Presented poster in the 58 <sup>th</sup> Joint Technological Conference and Tech-Tex 2019 Conference on “ <b>Bacterial Cellulose Synthesis &amp; Its Application in Technical Textile</b> ” held on Feb. 15-16, 2019 at NITRA Ghaziabad..
10	Presented paper on “ <b>Sustainable Approach in Agro-Textiles</b> ” in National

	conference on Sustainable Growth in Textiles (SGT-2020) held on 12-14 August 2020 organized by UPTTI Kanpur in collaboration with UICT, KBCNMU Jalgaon under TEQIP-III
11	Presented paper on “ <b>A Sustainable Approach of preparation of UV protective textiles from bio- waste lignin</b> ” in International conference on Sustainable Growth in Textiles (SGT-2021) held on 19-21 August 2021 organized by UPTTI Kanpur.

### **Working experience:**

- i. Worked as Assistant Manager in R&D in JCT Ltd. Phagwara for 7 Years & 4 Months (September, 1989 to Jan. 1997).
- ii. Working as faculty member in GCTI (Now UPTTI) Kanpur since Feb. 1997 to till now continued.

### **Other achievements:**

#### **Life membership of-**

- (i) Old Boy’s Association (Regd.) GCTI Kanpur. L.M. No.-296.
- (ii) The Textile Association (India). U.P. L. M. – 431.
- (iii) The Institution of Engineers (India). M 129966 -7.

### **Patent awarded:**

It is hereby certified that a patent has been granted to the patentee for an invention entitled THE PROCESS OF SODIUM LIGNOSULFONATE (SLS) TREATMENT ON NYLON FABRIC AND PRODUCT THEREOF as disclosed in the above mentioned application for the term of 20 years from the 26th day of October 2021 in accordance with the provisions of the Patents Act, 1970

### **Area of Interest:**

Fibre, Designing, Textile Testing, Damage Analysis, R&D, sun-protective clothing etc



Dr Arun Kumar Singh Gangwar  
(Professor)