



DEPARTMENT OF YARN MANUFACTURING

Annual Report - 2017



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Faculty of Engineering & Technology
National Textile University, Faisalabad

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Department of Yarn Manufacturing

1. Academic

1.1 Full-time Faculty Members

S. No.	Name	Designation	Highest Qualification
1	Dr. Zulfiqar Ali	Assistant Professor	PhD Textile Engineering
2	Dr. Hafiz Shahzad Maqsood	Assistant Professor	PhD Textile Technics and Materials Engineering
3	Dr. Abdul Basit	Assistant Professor	PhD Mechanical Engineering
4	Dr. Abdul Jabbar	Assistant Professor	PhD Textile Technics and Materials Engineering
5	Dr. Muhammad Bilal Qadir	Assistant Professor	Post Doctorate in Organic and Nano Engineering
6	Mr. Uzair Hussain	Assistant Professor	MS Textile Engineering
7	Mr. Muhammad Bilal	Assistant Professor	MS Textile Management
8	Mr. Sarfraz Hussain	Lecturer	BSc Textile Engineering
9	Mr. Amir Shahzad	Lecturer	MS Textile Engineering
10	Mr. Arslan Ahmad Amin	Lecturer	M.Sc. Electrical Engineering (Control Systems)

1.2 Faculty Members on Higher Studies

S. No.	Name	University	Country
1	Mr. Shoaib Iqbal	Technical University of Liberec	Czech Republic

2. Research, Product Development and Commercialization

- **Books Published**

Jabbar A. “Sustainable Jute based Composite Materials: Mechanical and Thermo mechanical Behaviour” Springer Briefs in Applied Sciences and Technology 2017. DOI: 10.1007/978-3-319-65457-7, ISBN: 978-3-319-65456-0 (Print) 978-3-319-65457-7 (Online) published by SPRINGER

2.1 Research Articles

1. Jabbar A., Militky J. “ Investigation of the creep and dynamic mechanical properties of jute/green epoxy composites incorporated with chemically treated pulverized nano/micro jute fibers”. *Vlákna a textile* ISSN: 1335-0617, 2017; 24(3):58-63.
2. Ali, U., Niu, H., Aslam, S., A Jabbar “Needleless electrospinning using sprocket wheel disk spinneret” *Journal of Materials Science* (2017). doi:10.1007/s10853-017-0989-6.
3. Jabbar A., Militky J., Wiener J., Kale BM, Rwawiire S, Ali U “Nanocellulose coated woven jute/green epoxy composites: characterization of mechanical and dynamic mechanical behavior” *Composites Structures*. 2017; 161:340-349.
4. Hussain, Tanveer, Farooq Ahmed Arain, and Zulfiqar Ali Malik. "Use of Taguchi Method and Grey Relational Analysis to Optimize Multiple Yarn Characteristics in Open-End Rotor Spinning." *Autex Research Journal* 17.1 (2017): 67-72.
5. Zubair, Muhammad, T. B. Neckář, and Zulfiqar Ali Malik. "Predicting Specific Stress of Cotton Staple Ring Spun Yarns: Experimental and Theoretical Results." *Fibres & Textiles in Eastern Europe* (2017).
6. Anam Ali Memon, Alvira Ayoub Arbab, Iftikhar Ali Sahito, Naveed Mengal, Kyung Chul Sun, Muhammad Bilal Qadir, Yun Seon Choi, Sung Hoon Jeong, "Facile fabrication of activated charcoal decorated functionalized multi-walled carbon nanotube electro-catalyst for high performance quasi-solid state dye-sensitized solar cells", *Electrochimica Acta*, Vol. 234, No. , (2017), pp.
7. Kyung Chul Sun, Alvira Ayoub Arbab, Iftikhar Ali Sahito, Muhammad Bilal Qadir, Bum Jin Choi, Soon Chul Kwon, Sang Young Yeo, Sung Chul Yi, Sung Hoon Jeong, "A PVdF-based electrolyte membrane for a carbon counter electrode in dye-sensitized solar cells", *RSC Advances*, Vol. , No. 7, (2017), pp.7
8. Amjed Javid, Khurram Iftikhar, Munir Ashraf, Abdur Rehman, Kashif Iqbal, Tanveer Hussain, Abdul basit Development and performance optimization of polyurethane-based multifunctional coatings using Taguchi method, *Journal of Industrial Textiles*, published online 2017.

2.2 Conferences

1. Zulfiqar Ali, Bilal Qadir, Ahsan Nazir, Zubair Khaliq, Abdul Jabbar, Ali Afzal*, "Development of NIR Camouflage Fabric by using Carbon Black Polyester", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)

2. Abdul Jabbar, Ali Afzal, Zulfiqar Ali Malik, Muhammad Bilal Qadir, Ahsan Nazir, Hafiz Affan Abid*, "Mechanical Behavior of Nanocellulose Coated Jute/Green Epoxy Composites", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
3. Muhammad Bilal Qadir, Amir Shahzad*, Abher Rasheed, Ali Afzal, Hafiz Affan Abid, "Processing and Development of Multifunctional Yarns and Fabrics for Interactive Gloves", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
4. Zulfiqar Ali, Bilal Qadir, Amir Shahzad, Hafiz Affan Abid, Ali Afzal*, "Potential of Nonwoven Textiles for Pakistan's Industry", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
5. Abdul Basit, Jasim Zia, Yasir Nawab, "Jute Fibers Reinforced Thermally Activated Polymer Composite Actuators" 1st International Conference on Technical Textiles, 2017, Faisalabad, Pakistan
6. Jabbar A. , Militký J. , Javed M. U., Ali A. "Investigation of mechanical and thermo mechanical properties of Nano cellulose coated jute/green epoxy composites". Proceedings of 3rd International Conference of Natural Fibres held in Braga, Portugal 21-23 June, 2017.
7. Uzair hussain, Hafsa Jamshaid, Investigation of comfort properties of flame resistant fabrics , on International Conference on Technical Textiles(ICTT) 2017 9-10 November in NTU
8. Uzair hussain, Hafsa Jamshaid, "Study Of Thermal Comfort Of Single Jersey Fabric By Utilization Of Recycled Wool With Polyester" in 9th Central European Conference (Fibre – Grade Polymers, Chemical Fibres and Special Textiles), Liberec11-13,September 2017,Czech Republic.
9. Uzair hussain, Hafsa Jamshaid, "Study Of Thermal Comfort Of Single Jersey Fabric By Utilization Of Recycled Wool With Polyester", 9th Central European Conference (Fibre – Grade Polymers, Chemical Fibres and Special Textiles), Venue: Liberec,Czech Republic, (2017)
10. Uzair hussain, Hafsa Jamshaid, " Investigation of comfort properties of flame resistant fabrics", International Conference on Technical Textiles (ICTT), Venue: NTU FSD, (2017)
11. Amir Shahzad, Zulfiqar Ali Malik, Muhammad Bilal Qadir*, Abher Rasheed, Ahsan Nazir, "Process of Functional Hybrid Spun Yarns Containing Metallic Fibers for EMI

- Shielding Fabrics", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
12. Ahsan Nazir, Muhammad Bilal Qadir, Abdul Jabbar, Hafiz Affan Abid, Zubair Khaliq, Ali Afzal*, "Combined Easy-Care and Water Repellent Finishing of Cotton Fabrics Using Plasma Treatment", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
 13. Ali Afzal, Zulfiqar Ali, Bilal Qadir, Amir Shahzad, Abdul Jabbar, Ahsan Nazir*, "Development of Spinneret Design for Composite Filament Fabrication: Part B", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
 14. Iftikhar Ali Sahito*, Kyung Chul Sun, Alvira Ayoub Arbab, Muhammad Bilal Qadir, Naveed Mengal, Anam Ali Memon, Yun Seon Choi, Sung Hoon Jeong, "Fabrication of Flexible and Conductive Cotton Fabric Electrode", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
 15. Ahsan Nazir, Muhammad Bilal Qadir, Zulfiqar Ali Malik, Abdul Jabbar, Affan Abid, Amir Shahzad, Zubair Khaliq, Muhammad Ali Afzal*, "Filtration and Comfort Properties of Face Masks Containing Polyamide Electro-spun Nanowebs", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017)
 16. Zubair Khaliq, Z. A. Rehan, Zulfiqar Ali, Amir Shahzad, Ahsan Nazir, Ali Afzal, M. Bilal Qadir*, "The Polyelectrolyte Behaviour of Cellulose Solutions in N,N-Dimethyl Acetamide and Lithium Chloride", 1st International Conference on Technical Textiles (ISBN: 978-969-7549-02-3), Venue: National Textile University, Pakistan, (2017).
 17. Shagufta Riaz, Munir Ashraf, Abdur Rehman, Kashif Iqbal, Amjed Javid, **Abdul Basit**, Tanveer Hussain, "A study to Develop and Characterize the Highly Absorbent Antimicrobial Alginate Fibers for Wound Dressings" 1st International Conference on Technical Textiles, 2017, Faisalabad, Pakistan
 18. Hafsa Jamshaid, Uzair hussain, Study of Structural Performance and Durability of Textile Reinforced Concrete, on International Conference on Technical Textiles(ICTT) 2017 9-10 November in NTU.

19. Hafsa Jamshaid, Uzair hussain, "Study of Structural Performance and Durability of Textile Reinforced Concrete", International Conference on Technical Textiles (ICTT), Venue: NTU FSD, (2017)

3. Events Organized by Technical Society

3.1 Society of Textile Spinners arranged an Industrial Tour to J.K Textile Mills Ltd

Society of Textile Spinners had arranged an industrial tour to J.K (Pvt.) Ltd. Sheikhpura Road, Faisalabad on April 13, 2017 (Thursday) for 2nd semester students of spinning department under the supervision of Dr. Abdul Basit. J.K Textile Mills Limited is one of the largest manufacture and exporters of yarn products in Pakistan. J.K Textile Unit No. 2 has a semi-automatic system from bale opening to the packing department. This tour was useful and informative for students to know about the manufacturing process.



3.2 A Lecture on Development and Marketing of Stretch Yarns and Fabrics

Society of Textile Spinners (STS) had arranged a lecture on “Development and marketing of stretch yarn and fabric” for the students of NTU in the main hall of National Textile University Faisalabad on April 20, 2017. Speaker for the lecture was Mr. Zaheer Anwar Randhawa, who is working with HYOSUNG Company (South Korea) as marketing manager since 2008. HYOSUNG Company offers the world’s best tire cords and produces high tenacity yarns for industrial applications, seat belts, airbag fabric in automobile industry. HYOSUNG is the leading company in Korea. Hyosung has developed aramid fibers and high performance carbon fibers with its independent technology.

The objective of this seminar was to enlighten the students about development and marketing of stretch yarns and fabrics. Speaker highlighted some rules of marketing which are essential for students in their professional life for success. In this lecture Mr. Zaheer Anwar discussed the current situation of spinning industry. He also introduced with the products of his company. This lecture was very beneficial for students to get new knowledge of stretch yarn and fabrics.



3.3 A Lecture on Yarn Conditioning & Its Effects on Fabric Properties

Society of Textile Spinners (STS) had arranged a lecture on "Yarn Conditioning & its Effect on Fabric Properties" for the students of NTU in the main hall of National Textile University Faisalabad on May 11, 2017. Speaker for the lecture was Mr. Moazzam Irshad, who is working with Nishat Group of Industries as a Spinning Manager. Nishat Mills Limited is the flagship company of Nishat Group. It was established in 1951. It is one of the most modern, largest vertically integrated textile companies in Pakistan. Nishat Mills Limited has 227,640 spindles, 805 Toyota air jet looms. The Company also has the most modern textile dyeing and processing units, 2 stitching units for home textile, two stitching units for garments and Power Generation facilities with a capacity of 120 MW. The Company's total export for the year 2016 was Rs.

35.931 billion (US\$ 344.744 million). Due to the application of prudent management policies, consolidation of operations, a strong balance sheet and an effective marketing strategy, the growth trend is expected to continue in the years to come. The Company's production facilities comprise spinning, weaving, processing, stitching and power generation

The objective of this seminar was to enlighten the students about Yarn Conditioning & its Effect on Fabric Properties. Speaker highlighted on “why conditioning is important for yarn”. In this lecture Mr. Moazzam Irshad discussed the current situation of spinning industry. The lecture was very beneficial for students.



3.4 Society of Textile Spinners arranged an Industrial Tour to Ibrahim Fibers (Pvt.) Limited.

Society of Textile Spinners had arranged an industrial tour to Ibrahim Fibers Limited (Pvt.) Ltd. Sheikhpura Road, Faisalabad on May 13, 2017 (Saturday) for 3rd semester students of spinning department under the supervision of Dr. Muhammad Bilal Qadir. Ibrahim Fibers Limited is one of the largest manufacture and exporters of yarn products in Pakistan and also has a Polyester Manufacturing plant. This tour was useful and informative for students.



3.5 A Lecture on the Fancy Yarns

A lecture on the Fancy Yarns was delivered by Mr. Javed Iqbal on May 18, 2017 in the GM IT LAB. The main purpose of the lecture was to aware the students about the manufacturing fancy yarn and their use. Yarns refer to a structure composed of continuous length of interlocked yarns.

He told that fancy yarns are suitable for use in the production of textiles, sewing, weaving, embroidery and rope making. Fancy yarns are derived from the normal yarns. Fancy yarns appear mainly in high value items so their small volumes cannot be ignored. The fancy yarns give a fancy touch to the fabrics to a broad range of end uses. Significant demand for the fancy yarns is in the ladies and children outer wear. He also informed and taught about the basic principle and application of fancy yarns. Because of this lecture students got a lot of new knowledge about the fancy yarns. In this lecture, faculty members of YM department participated and at the end of lecture chairman of YM department presented the shield to the speaker. By this lecture the students gained useful knowledge about the fancy yarns.



3.6 Quiz Competition Conducted by the Society of Textile Spinners

A Quiz Competition was conducted by the Society of Textile Spinners on May 18, 2017 from 1:20 PM to 2:10 PM at main hall. In the quiz competition, students took a keen interest and more than 100 students participated in the event. It was supervised by the Dr. Bilal Qadir and Mr. Amir Shahzad and society management. Students from all the departments of the university participated in the Quiz competition. The quiz was based on weightage 30% textile (all technologies) and 70% general aptitude. The winners of competition were encouraged and awarded with the cash prizes on the annual dinner of society of textile spinners on May 19, 2017 by the chief guest. First, 2nd and 3rd positions were awarded to the Mr. Anees Arshad, Mr. Fahad Ali, and Mr. Ateeq Ur Rehman respectively.

3.7 Society of Textile Spinners had arranged an Industrial Tour to Nishat Textile Mills

Limited Unit No. 03, Faisalabad.

Society of Textile Spinners had arranged an industrial tour to Nishat Textile Mills limited Unit No. 03, Faisalabad on May 25, 2017 (Thursday) for the 2nd Semester students of Yarn Manufacturing Department under the supervision of Dr. Hafiz Shahzad Maqsood. Nishat Textile Mills Ltd is one of the largest manufacturers and exporters of Yarn products in World. Nishat is well reputed industry in recent years. Nishat technology system is Semi-automatic from bale

opening towards the packing department. In recent year yarn produced by Nishat is the best product of yarn market.

Technical Director of Nishat Group Mr. Ghulam Abbas and HR Manager Mr. Abdul Qayyum welcomed the students then he recommended us for meeting with technical staff. Presence of Technical staff was encouraging for students. After meeting with General Manager Mr. Saleem Shahzad and technical staff, all the groups visited mechanical operations and environment. This tour was useful and enjoyable for students. Students appreciated it.

3.8 Industrial Tour to Amer Cotton Mills Sapphire Fiber Limited

Society of Textile Spinners arranged an industrial tour of the 5th semester students to Amer Cotton Mills-Sapphire Fiber Limited Multan Road, Pattoki on October 14, 2017. Amer Cotton Mills-Sapphire Limited is one of the largest manufacturers and exporters of Core Spun yarn products in Pakistan. Dr. Bilal Qadir accompanied the students. This study tour was very useful and informative for the students to know about the practical field.



3.9 Society of Textile Spinners arranged a Seminar on Career Counseling

Society of Textile Spinners arranged a Seminar on career counseling on October 31, 2017. Mr. Sheikh Usman was the guest speaker who is an ex-graduate of NTU (Batch 1998) and a Professional Trainer. The session was very beneficial for the students.



3.10 Industrial Visit to Nisar Spinning Mills

For the professional development of students of Department of Yarn Manufacturing, an industrial tour was arranged under the banner of Society of Textile Spinners 2017-18 on December 22, 2017 where 50 students from 2nd year accompanied with final year students and visited the Nisar Spinning Mills under the supervision of Convener Society of Textile Spinners Dr. Muhammad Bilal Qadir. Nisar Spinning Mills is located in Riawind, south of Lahore in the Punjab (Pakistan). Here one of the most modern ring and compact spinning mills in Pakistan has been built, covering an area of 160 000 sqm. The spinning machines and systems were supplied by Rieter Switzerland. Nisar Spinning Mills spins only cotton, ranging from middle staple to extra-long staple. Yarn counts of Ne 12 to 200 can be produced. With a total installed capacity of 24 000 spindles (half of which are G-33 and half K-44), Nisar Spinning Mills produces up to 5 000 tons each of ring and compact yarn per year. On arrival at Nisar Spinning Mills, Technical Director Mr. Sanaullah Khan warmly welcomed the students. In about 2 hours students visited the mills and got answered of their questions.

3.11 Industrial visit to AA Spinning Mills

For the professional growth of students of Department of Yarn Manufacturing, an industrial tour was arranged under the banner of Society of Textile Spinners 2017-18 on December 29, 2017. Students from 1st year and final year visited the AA Spinning mills under the supervision of Asst. Professor Dr. Abdul Basit. A.A. Spinning Mills Limited is the first ever unit in Pakistan which has fifty thousand spindles under one roof with the collaboration of leading European companies

having in the business of textile machinery for more than decades. They are dealing in Ne 14/1 to Ne 45/1 with an option of carded, combed by using both cotton and man-made fibers.

On arrival at AA Spinning Mills, Mr. Shakeel Hassan HR Manager by himself warmly welcomed the students and prayed for their successful future. After that General Manager Mr. Shahid Shahbaz, Deputy General Manager Mr. Saeed and Spinning Manager Mr. Usman gave a brief introduction to the students about the mills. The students observed the yarn manufacturing process and visited different departments.



4. Sports Activities

4.1 Department of Yarn Manufacturing Organized Intra-Departmental Sports

Department of Yarn Manufacturing organized intra-departmental sports competitions on Wednesday, October 25, 2017. The event was formally inaugurated by Dr. Zulfiqar Ali, Director FET. Dr. Abdul Basit, Sports Coordinator YMD, Mr Uzair Hussain, Assistant Professor, Mr. Pervaiz Akhtar Sports Officer, Mr. Imran Ali Gill, Sports Officer and faculty members of Yarn Manufacturing Department were also present on the occasion. Director FET emphasized the importance of sports and asked students to maximize their participation in sports activities along with the academic activities.



5. Miscellaneous

5.1 Industrial Visits of Faculty Members for knowledge up-gradation

Name	Name of Mills	No. of Mills
Dr. Zulfiqar Ali Assistant Professor	1. Crestex Mills Ltd, Sargodha Road Faisalabad.	13
	2. Ittehad Spinning & Weaving Mills, Khurrianwala.	
	3. Nishat Mills Ltd. No. 27, Feroz Wattowan.	
	4. Nishat Mills Ltd Unit No. 54, Feroz Wattowan.	
	5. Reliance Mills, Feroz Wattowan.	
	6. Sitara Mills (Processing Unit), Sargodha Road. Faisalabad.	
	7. Crescent Textile Mills Kotla Kahlowan.	

	8. Ibrahim Fibres Ltd. Textile Plant No. 1, Shahkot. 9. Ibrahim Fibres Ltd. Textile Plant No. 3, Shahkot. 10. Noor Fatima (Wadding) 11. Ravi Fibers (Recycling plant) 12. CSD office Islamabad 13. Multiple visits to local market and industry for ball fibers	
Dr. Hafiz Shahzad Maqsood Assistant Professor	1. Suraj Cotton Mills Ltd. Shahkot (4 Visits) 2. Ibrahim Fibres Ltd. Textile Plant No. 2, Shahkot	2
Dr. Abdul Basit Assistant Professor	1. Crescent Textile Mills, Kotla Kahlowan 2. Shamas Textile Mills, Faisalabad Road Chiniot.	2
Dr. Abdul Jabbar Assistant Professor	1. Nishat Mills Ltd. No. 27, Ferozwattowan 2. Nishat Mills Ltd Unit No. 54, Feroz Wattowan 3. Riaz Textile Mills, Feroz Wattowan 4. Nishat Group of Industries, Chunian Lahore. 5. Mannoo Group of Industries, Raiwind, Lahore. 6. Naveena Group of Industries, Raiwind Lahore. 7. Nagina Group of Industries Lahore. 8. Escort International, Lahore. 9. Din Textile Mills, Raiwind, Lahore.	12

	10. Al Nasr Textile Mills, Raiwind Road, Lahore. 11. Mayfair Textile Mills, Raiwind Road, Lahore. 12. Reliance Cotton Mills, Feroze Wattowan	
Dr. M. Bilal Qadir, Assistant Professor	1. Nishat Group of Industries, Chunian Lahore. 2. Mannoo Group of Industries, Raiwind, Lahore. 3. Naveena Group of Industries, Raiwind Lahore. 4. Nagina Group of Industries Lahore. 5. Escort International, Lahore. 6. Din Textile Mills, Raiwind, Lahore. 7. Al Nasr Textile Mills, Raiwind Road, Lahore. 8. Mayfair Textile Mills, Raiwind Road, Lahore. 9. Amir Cotton Mills, Multan Road, Lahore. 10. Nishat Mills Ltd. No. 27, Ferozwattowan 11. Nishat Mills Ltd Unit No. 54, Feroz Wattowan 12. Ibrahim Fibres Ltd. Textile Plant No. 1, Shahkot 13. Ibrahim Fibres Ltd. Textile Plant No. 2, Shahkot 14. Ibrahim Fibres Ltd. Textile Plant No. 3, Shahkot 15. Relience Cotton Mills, Feroz Wattowan	15
Mr. Amir Shahzad Lecturer	1. Nishat Mils Ltd Unit No. 54, Feroz Wattowan 2. Relience Cotton Mills, Feroz Wattowan 3. Masood Textile Mills, Sheikhpura Road,	14

	<p>Ghaseetpura</p> <ol style="list-style-type: none"> JK fibres Unit, 1 ,2, Sheikhpura Road, Kotla Kahlowan Crestex Mills Ltd, Sargodha Road Faisalabad. Nishat Group of Industries, Chunian Lahore. Mannoo Group of Industries, Raiwind, Lahore. Naveena Group of Industries, Raiwind Lahore. Nagina Group of Industries Lahore. Escort International, Lahore. Din Textile Mills, Raiwind, Lahore. Al Nasr Textile Mills, Raiwind Road, Lahore. Mayfair Textile Mills, Raiwind Road, Lahore. Crescent Textile Mills Kotla Kahlowan. 	
<p>Mr. Uzair Hussain Assistant Professor</p>	<ol style="list-style-type: none"> Crescent Textile Mills Kotla Kahlowan Crestex Mills Ltd, Sargodha Road Faisalabad. Nizam Sons Pvt Ltd, Harrar Wazirabad Rd, Sialkot. Leathertex group, 29th KM Ferozpur Road, Lahore. Tariq Open End Mills, Faisalabad. Bhanero Textile Mills Ltd, Sheikhpura Road, Feroz Wattowan Blessed Textile Mills, Ltd. Feroz Wattowan CA Textile Mills, Lahore. 	8
<p>Mr. Muhammad Bilal</p>	<ol style="list-style-type: none"> Sitara Textile Mills, Sargodha Road, Faisalabad. Nishat Mills Ltd, Nishatabad, Faisalabad. 	4

Assistant Professor	3. Masood Textile Mills, Drammawala Morr, Khurrianwala. 4. Crescent Textile Mills Kotla Kahlowan	
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5.2 Travel Grants funded by HEC

- Dr. Abdul Jabbar for presenting research paper in conference (ICNF-2017) in Portugal.
- Mr. Uzair Hussain for presenting research paper in conference in Czech Republic

5.3 Funded Projects

- Two Startup research grants funded by HEC were won by Dr. M. Bilal Qadir and Dr. Abdul Jabbar.
- One industrial grant of 0.5 million from Crestex Faisalabad to develop Nep generation machine won by Dr. Zulfiqar Ali and Amir Shahzad

5.4 Consultancies

Dr. Zulfiqar Ali is providing consultancy to CSD for Army uniform manufacturing processes regarding yarn, grey fabric and printed fabric inspection and quality control which is continued from 2012. In this consultancy team, Dr. Mumtaz Hasan Malik, Dr. Zulfiqar Ali, and Dr. Ahsan Nazir are a team of consultants. During 2017, an amount of Rs. 3.89 million had been received to the NTU.