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<https://scholar.google.com/citations?user=0mHzmccAAAAJ&hl=en>

**AREA OF INTEREST:** Fibre Science, Nano Fibre Spinning, Filtration,  
 High Performance Ffibres, Clothing Science

### FUNDED PROJECTS

S.No.	Name of the Projects	Agency	Duration	Amount received in Rs.	Current Status
<b>Major projects</b>					
1.	Development of nano composite mask for NBC protective applications	DAE-BRNS	1.4.2011 to 30.11.2014	15.8 lakhs	Completed
2.	Indigenous development polymer/ blended nano fibre production for defence and medical applications	DRDO	1.10.2007 to 30.9.2009	10.47 lakhs	Completed
<b>Minor projects</b>					
3.	Development and testing of bullet proof vest	CTDT Anna University	1.7.2018 to 31.12.2018	25000	Completed
4.	Development of biodegradable enzyme coated natural fibre air filtration and purification	CTDT Anna University	1.7.2019 to 31.12.2019	25000	Completed
5.	Development of high capacity dust loading inlet air filters for two/four wheelers by oil treated natural fibres	TNSCST	1.11.2019 to 31.3.2020	7500	Completed

- No. of M. Tech Students guided : 12
- No. of Ph.d. Scholars guided : 2
- No. of Ph.d. Scholars guiding : 5

## **PUBLICATIONS:**

### **INTERNATIONAL JOURNALS**

1. Subramaniam S, & **Gobi N** "Effect of Process Parameter at Comber on yarn and fabric properties" June 2004, Indian Journal of Fibre and Textile Research", Vol. 29, pp 196 - 199.
2. Sudhakar P & **Gobi N** "Chameleonic Textiles – not only the colours Change", 2005, "Indian Textile Journal", pp 29-34
3. Sudhakar P & **Gobi N** "How to Reduce Garment Production cost",2006 "Textile Magazine", pp29-30
4. Sudhakar P & **Gobi N** & O.L. Shanmugasundaram "Effect of structure and pattern on double jersey jacquard fabric properties" 2006 "Textile Magazine", pp66-72
5. V. Rajendran, **Gobi N**, K.Sasipriya, "Functional Nano Textiles",2009, Nano Digest, Vol. 1, Issue 2, pp. 32 – 35.
6. Ramachandran T, **Gobi N** & Kokila A, (2009) 'MEMs and Nano materials in Intelligent Textiles – an over view', Indian Textile Journal, pp. 94-100
7. Sasi Priya K, **Gobi N**, Palanivelu R, Ramachandran T, Rajendran V, 'Influence of nano silica coating on the functional properties of cotton fabrics', April 2009, Advanced Materials Research Vol. 67, pp 149-154.
8. Ramachandran T, **Gobi N**, Rajendran V & Lakshmikantha C.B, 'Optimization of process parameters for cotton crease resistant finish using citric acid', Dec 2009, Indian Journal of Fibre and Textile Research., Vol. 34, pp 359 - 367.
9. Gobi Nallathambi, Thangavelu Ramachandran, Venkatachalam Rajendran, Rajagoundar Palanivelu, 'Effect of Silica Nanoparticles and BTCA on Physical Properties of Cotton Fabrics', Materials Research. 2011; 14(4): 552-559
10. K Tarun & N Gobi, 'Calcium alginate/PVA blended nano fibre matrix for wound dressing', Indian Journal of fibre and Textile Research,2012, 37, June: 127 – 132

11. Arun Karthick S, **Gobi N**, Nisha S, 'Interaction of Nano HA-Biomolecules makes Thermally Stable Biomolecules for Bone Regeneration', *Che. Sci. Rev. Lett.* 2012, 1(2), 53–62, ISSN 2278-6783.
12. Nisha S, Arun Karthick S and Gobi N, A Review on Methods, Application and Properties of Immobilized Enzyme, *Che Sci Rev Lett.* 2012, 1(3), 148-155.
13. M. Thirugnanaselvam, N. Gobi and S. Arun Karthick, SPI/PEO Blended Electrospun Matrix for Wound Healing, Fibres and polymers, 2013, Vol.14, No. 6, 965 -969.
14. Nattanmi Raman Dhineshababu, Palanisamy Manivasakan, Periasamy Prabu, **Nallathambi Gobi**, Nallambalayam K. Palaniswamy, Venkatachalam Rajendran, "Development of functional hybrid cotton fabrics by coating with SiO<sub>2</sub> and ZrO<sub>2</sub>/SiO<sub>2</sub> composites" *Micro & Nano Letters*, 2014, 1–4.
15. R Senthil, S Inbasekaran, N Gobi, BN Das, TP Sastry, Utilisation of finished leather wastes for the production of blended fabrics, *Clean Tech Environ policy*, 2014, Nov, 1-12.
16. **Nisha Asankarraj and Gobi Nallathambi**, Immobilization and characterization of cellulose on concavalin A (Con A) layered calcium alginate beads, *Biocatalysis and Bio transforms*, 2015, 33(2): 81-88.
17. **Arun karthick and Gobi Nallathambi**, Polyacrylonitrile/ Silver Nanoparticles Electrospun Nano Composite Matrix for Bacterial Filtration, *Fibres and Polymers*, 2015 Vol. 16, No.6, 1327 – 1335. (July)
18. **Arun Karthick Selvam and Gobi Nallathambi**. Mesoporous MgAl<sub>2</sub>O<sub>4</sub> and MgTiO<sub>3</sub> Nanoparticles Modified Polyacrylonitrile Nanofibres for 2-Chloroethyl Ethyl Sulfide Degradation, *Fibers and Polymers* 2015, Vol.16, No.10, 2121-2129. (October)
19. **Kalaivani D, Arun karthick S, Gobi N**, Development and Study on Filtration Properties of Staple Fibre Thermo Bonded Nonwoven Fabrics, *IJFTR*, Vol 41, March 2016, pp. 62-66
20. Rethinam Senthil, Sathyaraj W. Vedakumari, Thiagarajan Hemalatha, Vijayan Sumathi, **Nallathambi Gobi**, Thotapalli P. Sastry, New Approaches for the Effective Utilization of Fish Skin Wastes of *Aluterus monoceros*, *J Earth Environ Health Sci* 2016; 2:50-55.
21. Mohamed Zakriya, G Ramakrishnan, N Gobi, NK Palaniswamy and J Srinivasan, Jute-reinforced non-woven composites as a thermal insulator and sound

- absorber – A review, *Journal of Reinforced Plastics and Composites* 2017, Vol. 36(3) 206–213.
22. N. Sankarraj, G. Nallathambi, Effect of biopolishing on structural degradation and physical properties of cellulose *J. Serb. Chem. Soc.* (2017), vol. 85, (2), pp. 567: doi: 10.2298/JSC161123031S
  23. D Hazel and N Gobi, Air Separation: Materials, Methods, Principles and Applications - An Overview, *Chem Sci Rev Lett*, 2017, 6(22), 864-873.
  24. **Arun Karthick Selvam and Gobi Nallathambi**, Nano silver incorporated electrospun polyacrylonitrile nanofibers and spun bonded polypropylene composite for aerosol filtration, *Journal of Industrial Textiles*, 2017, Vol. 46, (6), 1342-1361.
  25. **Gobi Nallathambi\***, Abinaya M, Ragavee S, Sivaranjani R, Arunkarthick S, Nisha S, Devi B, Preparation and Characterisation of NYLON/PEG/PAN Composite Membrane For Liquid Filtration, *Indian Journal of Fibre & Textile Research* , Vol. 42, December 2017, pp. 480-487
  26. Rethinam Senthil, Nallathambi Gobi, Sundaramurthy Inbasekaran, Lawrence Edwinpaul and Robert Berly, Preparation and Structural Properties of Fibrous Materials-Reinforced Polymer Composites, *Chem Sci Rev Lett* 2017, 6(23), 1623-1629, ISSN 2278-6783.
  27. Devi Baskar, Gobi Nallathambi, Dual functional property of lycopene as a reducing agent to synthesis TiO<sub>2</sub> nanoparticles and as a ligand to form lycopene-TiO<sub>2</sub> nanoparticles complex, *Materials Letters* 209 (2017) 303–306.
  28. Rethinam Senthil, Thotapalli Parvathaleswara Sastry Gnanasundaram Saraswathy, Bhabendra Nath Das, **Nallathambi Gobi**, Leather Insole with Acupressure Effect: New Perspectives *J Polym Environ*, 2018, Vol. 26, (1), 175-182
  29. Nisha shankarraj and Gobi Nallathambi, “Enzymatic biopolishing of cotton fabric with free/immobilized cellulase, *Carbohydrate Polymers* 191, (2018) 95-102.
  30. Rethinam Senthil, Robert Berly, Bhargavi ram and Nallathambi Gobi, (2018) ‘Electrospun PVA/Collagen nano fibrous scaffold hybridised by grapheme oxide for accelerated wound dressing’ *The International Journal of Artificial Organ*, Volume: 41 issue: 8, page(s): 467-473, (impact factor: 1.337) May 2018.
  31. Rethinam Senthil, Robert Berly, Bhargavi ram and Nallathambi Gobi, (2018), ‘Production of silica nano particles bound fabrics and evaluation of its

- antibacterial/UV protection properties' *Micro & Nano letters*, Volume 13, Issue 10, October 2018, p. 1404 – 1407 DOI: [10.1049/mnl.2018.5033](https://doi.org/10.1049/mnl.2018.5033) , Online ISSN 1750-0443 Available online: OCT 2018.
32. Devi Baskar, ArunKarthickSelvam, MonnishaGanesan and Gobi Nallathambi, Mechanism of Nanofibres on Removal of Water Pollutants-A Review, (2018), *Indian Journal of Chemical Technology*, Vol. 25, September 2018, pp.451-458
  33. Vanitha Priya D, Sudersan K, Arun Karthick S, Arumugam P, Gobi N, Siva Shankar P and Anuradha V, 'Extraction of chitosan from crab shells using five different chemical methods and its characterization', *International Journal of Recent Scientific Research*, Vol. 9, Issue, 8(D), pp. 28512-28517, August, 2018
  34. Vanitha Priya D, Sudersan K, Arun Karthick S, Arumugam P, Pandima Devi MK, Anuradha V and N. Gobi, 'Adsorption mechanism of chitosan, activated carbon, and magnetic chitosan activated carbon composites on to the dyes with different adsorbent optimization study', *International Journal of Current Advanced Research*, Volume 7; Issue 7(G); July 2018; pp. 14306-14312.
  35. N. Gobi, T. Devasena and P. Padmaja, Value Added Wound Healing Material of cross linked PVA-alginate network, *Advances in Polymer for Biomedical applications 2018*, Vol.1, pp.389-411 (Book Chapter, Nova medicine and health care)
  36. N. Gobi, E. Vijayalakshmi, Berly robert, and N. R. Srinivasan, Development of PAN nano fibrous filter hybridized by SiO<sub>2</sub> nanoparticles electret for high efficiency air Filtration, *J. Polym. Mater.* Vol. 35, No. 3, 2018, 317-328
  37. V. Felix Swamidoss, Mohan Bangaru, Gobi Nalathambi, Dharmalingam Sangeetha & Arun Karthick Selvam (2019) Silver-incorporated poly vinylidene fluoride nanofibers for bacterial filtration, *Aerosol Science and Technology*, 53:2, 196-206, DOI: [10.1080/02786826.2018.1554892](https://doi.org/10.1080/02786826.2018.1554892) (December 2018)
  38. Gobi N, Evangelin S, Kasthuri R, Nivetha D, 'Multilayer nonwoven fabrics for filtration of micron and submicron particles'. *J Textile Eng Fashion Technol.* 2019;5(2):81–84. (March 2019)
  39. P Reena, N Gobi, P Chitralekha, D Thenmuhil, V Kamaraj, 'Mesoporous titania embedded polyacrylonitrile composite nanofibrous membrane for particulate matter filtration, 2019, *Journal of thermoplastic composite materials*, DOI: [10.1177/0892705719859929](https://doi.org/10.1177/0892705719859929). (impact factor 1.343), (July 2019)

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41. Monnisha Ganesan and Gobi Nallathambi, Desalination: A review on Principles, Methods, and Materials (2019), *Chem Sci Rev Lett* 2019, 8 (31), 80-90
42. Arun Karthick Selvam, Devi Baskar & Gobi Nallathambi (2019): Layer by layer nanocomposite filter for ABC filtration, *Chemical Engineering Communications*, <https://doi.org/10.1080/00986445.2019.1705796>
43. Gobi Nallathambi, Hazel Dhinakaran, Multilayer Polymeric Nano composite Membrane for Oxygen Separation (2019), *Bull. Sci. Res.* 1-11
44. Monnisha Ganesan, Gobi Nallathambi, and Seshachalam Srinivasalu, Fate and transport of microplastics from water sources, (2019) *Current science*, vol. 117, no. 11, 10 December 2019. (Impact factor: 0.756)
45. Gobi Nallathambi, Devi Baskar & Arun Karthick Selvam, (2020) 'Preparation and characterization of triple layer membrane for water filtration, *Environ Sci Pollut Res*, 27, pp. 29717–29724 (2020), <https://doi.org/10.1007/s11356-019-06254-z> (impact factor 2.914)
46. Kokila Arunachalam, Senthil Kumar Vairakannu, Gobi Nallathambi, (2020) 'Comparison and optimisation of three-level neutral point clamped dual output inverter', *IET Circuits, Devices and systems*, Volume 14, Issue 1, January 2020, p. 48 – 59, doi: 10.1049/iet-cds.2018.5434.
47. Nallathambi, G., Robert, B., Esmeralda, S., Kumaravel, J. and Parthiban, V. (2020), "Development of SPI/AC/PVA nano-composite for air-filtration and purification", *Research Journal of Textile and Apparel*, Vol. 24 No. 1, pp. 72-83.
48. Bhargavi Ram Thimmiah, Gobi Nallathambi, (2020) 'Synthesis of -Fe<sub>2</sub>O<sub>3</sub> nanoparticles and analyzing the effect of annealing temperature on its properties', *Materials Science-Poland*, DOI: 10.2478/msp-2020-0005
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50. Senthil Rethinam, Gobi Nallathambi, Sumathi Vijayan, Bahri Basaran, Ali Mert, Oğuz Bayraktar & Wilson Aruni A. (2020) A new approach for the production of multifilament suture - *in vitro* and *in vivo* analysis, *International Journal of*

- Polymeric Materials and Polymeric Biomaterials, DOI: [10.1080/00914037.2020.1798432](https://doi.org/10.1080/00914037.2020.1798432) (Impact Factor 1.982) (July 2020)
51. N Gobi , R Aarthi, A Farzin, R Pazhanishankar and G Monnisha, Development of alkali treated surface-modified coir fibre filter for 1µm to 10 µm particle filtration and process optimization' Journal of Industrial Textiles DOI: 10.1177/1528083720964702, October 2020. Impact Factor: 1.884
  52. Berly Robert and Gobi Nallathambi, Indoor formaldehyde removal by catalytic oxidation, adsorption and nanofibrous membranes: a review, Environmental Chemistry Letters <https://doi.org/10.1007/s10311-020-01168-6>, published online: 21 January 2021, Impact Factor:4.410
  53. N. Gobi, A. Ganesh, E. Anbu, N. Agalya, Surface Modified Hollow Polyester/Polyvinylpyrrolidone Composite for O<sub>2</sub> Enriched Air Separation, Pages 89-98, Recent Trends in Traditional and Technical Textiles, SpringerLink, DOI <https://doi.org/10.1007/978-981-15-9995-8>, Print ISBN 978-981-15-9994-1, Online ISBN 978-981-15-9995-8.
  54. Devi Baskar, Gobi Nallathambi, Arun Karthick Selvam, P. Senthil Kumar, Preparation of PAN/lycopene-TiO<sub>2</sub> nanocomposite membrane for azo dye degradation, March (2021) 436–444. Doi: 10.5004/dwt.2021.26896. (impact factor 1.234)

#### **BOOK CHAPTER AUTHORED:**

1. Sudhakar P, **Gobi N** & M Senthilkumar “Camouflage fabrics for military protective clothing” Military Textiles, Wood Head Publishing in Textiles, ISBN 978-1-84569-206-3 pp- 293 -318 (May 2008)
2. N. Gobi, T. Devasena and P. Padmaja, ‘Value Added wound healing material of cross linked PVA-Alginate network’, Advances in Polymer for Biomedical Applications, Nova Science Publishers, (2018) ISBN(ebook): 9781536136135, ISBN: 9781536136128.
3. N. Gobi, A. Ganesh, E. Anbu, N. Agalya, Surface Modified Hollow Polyester/Polyvinylpyrrolidone Composite for O<sub>2</sub> Enriched Air Separation, **Recent Trends in Traditional and Technical Textiles**, DOI <https://doi.org/10.1007/978->

[981-15-9995-8](#), Publisher Name Springer, Singapore, Print ISBN 978-981-15-9994-1, Online ISBN 978-981-15-9995-8, Pages 89-98.

#### PATENT FILED / GRANTED:

S. No	Title	Name of the inventors	Application No.	Publication date	Status
1.	Blended suture for surgical application and a process for the preparation thereof	N. Gobi R. Senthil	201841033452 A	4.9.2018	Published
2.	Multifunctional Nanocomposite nano fibrous filter for aerosol filtration, chemical and biological protection	N. Gobi S. Arunkarthick	201841029428 A	17.8.2018	GRANTED
3.	Method to synthesis TiO <sub>2</sub> nano particles and lycopene- TiO <sub>2</sub> nano particles complex	N. Gobi B. Devi	201841025473 A	13.7.2018	Published
4.	Construction of Polymeric /Electrospun Composite Membrane For Water Filtration and a method thereof	N. Gobi	201641032148 A	30.9.2016	Published

#### CONFERENCE PRESENTATION:

1. Sudhakar P & **Gobi N**, "Analysis of comfort and low stress Mechanical Properties of Ring and Compact Yarn Knitted Fabrics" Bannari Amman Institute of Technology IYQM 2005.
2. Ramachandran T & **Gobi N**, (2006) 'Nano Structured carbon/Polymer matrix composite fibres' IIT Delhi.
3. **Gobi. N** & Sudhakar. P "Novel Piecing Technique" Bannari Amman Institute of Technology, IYQM 2007.
4. **Gobi. N**, Vimala M & Krithika S, "Carbon nano fibrous materials & its applications", K.S. Rangasamy College of Technology, STTM 2009 (February 2009).
5. Sasi Priya K, **Gobi N**, Palanivelu R, Ramachandran T, Rajendran V, (2008) 'Nano Silica Coating on fabrics using Microencapsualtion Technique', NADPA-IIT Rurkee, December 11-13.
6. Rajendran V, Kannan N, Palanivelu R, **Gobi N** and Ramachandran T, (2009), 'Industrial Applications of Nanostructured Materials Obtained from natural resources' ICNM, IMSE- Kottayam, April 6-8.



7. Rajendran V, Kannan N, Palanivelu R, **Gobi N** and Ramachandran T, (2009), 'Functional Finishing of cotton fabrics using nano silica', Team Tech Textiles – 2009, Bangalore university, Bangalore, April 16-18.
8. K. Sasipriya, Gobi N, Manivasakan and V. Rajendran, 'Antibacterial functionalized cotton fabrics using titania nano particles' Nano tech India 2009, AG Nano Tech Impex India Pvt. Ltd. Cochin, August 14 to 16, 2009.
9. V. Rajendran, K. Sasipriya and N. Gobi, 'Functional nanofinishes on cotton textiles for industrial and medical applications, Solar'10, Nanophotochemistry and Solarchemistry lab, Ain Shams University 14 - 17 February 2010, Cairo, Egypt.
10. M. Vimala, K.M. Vishnu, P. Ranjit kumar, K. Ravichandran & N. Gobi, 'Development of Nano calcium alginate coated fabric for medical applications', HEAT 2010, 30<sup>th</sup> & 31 July 2010, PSG College of Technology, Coimbatore, India.
11. A poster presented on MAM 12 - Nano Systems and Applications, titled 'Study of Functional and Physical properties of Amorphous Nano Silica Coated on Cotton Fabric  
*R. Palanivelu, V. Rajendran, G. Thirunavukkarasu and N. Gobi, Nov. 21-25, 2012.*
12. Udhaya M, Arun S Karthick, and **Gobi N\*** "Development of Kapok/PP Blended Nonwovens for Thermal Insulation Application", 27th National Convention of Textile Engineers by Institute of Engineers, 20<sup>th</sup> & 21st February 2014.
13. Devi Baskar and Gobi Nallathambi, 'A Review on Treatment Methods of Textile Waste Water, Fifth International Textile Conference – Emerging Trends in Textile Industry – New Innovations (ETTI 2015), August 13& 14, 2015, ISBN 978-93-5235-365-1.
14. Jenifer S, Angelene Hannah Jebarani D, Gobi N, Devasena T, polyphenol-MWCNT/ Polymer nanocomposite membrane for chromium removal, International work shop on Advanced Functional Nanomaterials, IWAN 4, 22<sup>nd</sup> – 24<sup>th</sup> March 2017, centre for nano science and technology, ISBN: 9789352 792313.
15. Angelene Hannah Jebarani D, Devasena T and Gobi N, 'Efficiency of Polyphenols in Water Treatment, International Conference on Biotechnology and Its Applications in Aquaculture & Fisheries, Sponsored by SERB and DBT, organized by Centre of Advanced Study in Marine Biology, Annamalai University on 23 to 25 august 2017. ISBN: 978-3-330-08851-1
16. Angelene Hannah Jebarani D, Devasena T and Gobi N, 'CP-122 Polymer Membranes in Water treatment', International Conference on Recent Trends in Applied Science and Technology, ICRAST – 2017, Organized by Centre for

- Research and Centre for Nano Science and Technology, Anna University, Sponsored by BRNS on 8<sup>th</sup> & 9<sup>th</sup> September 17.
17. Angelene Hannah Jebarani D, Gobi N and Devasena T, 'Synthetic organic contaminant removal from Waste Water using Nano composite membrane' Internaional seminar of Advanced Nano materials – ISAN – 2018 organised by, National Centre for Nano science and Nano Technology, University of Madras, Chennai from 27.2.2018 to 28.02.2018.
  18. Senthil R, Berly R, Bhargavi ram T and Gobi N, 'Electrospun PVA/Collagen Nano fibrous scaffold Hybridized by Graphene Oxide for wound healing application, Internaional seminar of Advanced Nano materials – ISAN – 2018 organised by, National Centre for Nano science and Nano Technology, University of Madras, Chennai from 27.2.2018 to 28.02.2018.
  19. Arun Karthick Selvam, Devi Baskar and Gobi Nallathambi, 'Layer by Layer Nanocomposite Filter for ABC Filtration' 4th International Conference on Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE-2019), Organised by Department of Chemical Engineering, SSN college of engineering, chennai – 603110. Date : 14 & 15 Feb, 2019.
  20. Gobi Nallathambi, Devi Baskar, and Arun Karthick Selvam, 'Preparation and Characterization of Triple Layer Membrane for Water Filtration, 4th International Conference on Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE-2019), Organised by Department of Chemical Engineering, SSN college of engineering, chennai – 603110. Date : 14 & 15 Feb, 2019.
  21. Gobi Nallathambi, Berly Robert, 'Multilayer nonwoven fabrics for filtration of aerosol particles', International conference on Smart applications for Environmental Quaiity Assessment and Promoting Health care systems using internet of things (ICSAIOT – 2019), organized by K.S. Rangasamy college of Technology, August 28 & 29, 2019.
  22. Gobi Nallathambi, Hazel Dhinakaran, 'Multilayer polymeric nano composite membrane for oxygen separation', International conference on Smart applications for Environmental Quaiity Assessment and Promoting Health care systems using internet of things (ICSAIOT – 2019), organized by K.S. Rangasamy college of Technology, August 28 & 29, 2019.
  23. N. Gobi, N. Agalya, E. Anbu, A. Ganesh, 'Surface Modified Hollow Polyester/Polyvinyl pyrrolidone Composite for O<sub>2</sub> enriched air separation', 2<sup>nd</sup> International Conference on Emerging Trends in Traditional and Technical Textiles

(ICETT)', by Department of Textile Technology, NIT Jalandar, on 01.11.2019 to 03.11.2019.

24. N. Gobi. S.Sandya and Praveen kumar, (2020) 'Development of enzyme coated natural fibre filter for Air filtration and purification' AICTE sponsored International conference on Integration of advanced technologies for industry 4.0, (ICIATI), KCG college of Technology, 12 th and 13th June 2020

**PROGRAMME ORGANIZED :**

<b>Sl. No.</b>	<b>Programme</b>	<b>Duration</b>	<b>Sponsor</b>
1.	Student Evaluation and Question Paper Setting	3 days, 21.09.2016 to 23.09.2016	NITTTR and Anna university Chennai
		3 days, 13.10.2016 to 15.10.2016	
		3 days, 24.10.2016 to 26.10.2016	
2.	Statistical applications in industry	7 days 05.03.2018 to 11.03.2018	DST PURSE sponsored, Department of Textile Technology
3.	Application of statistics in Qualitative assessments	7 days 25.03.2019 to 31.03.2019	Department of Textile Technology UGC SAP sponsored