Curriculum Vitae of Professor. Debasish Das, University of Calcutta

1. **Full name**: Debasish Das
2. **Designation** : Professor and Head of the Department, ,Department of Jute and Fibre Technology, University of Calcutta, Kolkata
3. **Specialization:** Textile Chemistry, Textile Technology, Technical Textiles, , Coated Textile etc.
4. **Residential address:** 17G/1D, Dover Terrace, Kolkata-700019

Mobile 9831331481, Email : ddjf@caluniv.ac.in drdebasishdas@yahoo.co.in

6. **Academic Qualification**:

College/University	Abbreviation of the Degree
University of Calcutta, Department of Polymer Science and Technology.	Ph.D(Tech).
University of Calcutta , Department of jute and Fibre Technology.	B.Tech in Fibre Technology.
University of Calcutta , Vidyasagar college.	B.Sc (Hons) in Chemistry.

7. **Positions Held/holding**

a)**Present** :

Professor in Department of Jute and Fibre Technology, University of Calcutta

b)**Past**:

ii) Associate Professor in Department of Jute and Fibre Technology, University of Calcutta.

iii) Associate Professor in National Institute of Fashion Technology, Ministry of Textiles, Govt. of India with Lien from University of Calcutta.

iv)Reader in Department of Jute and Fibre Technology, University of Calcutta.

8. International Fellowship: Received UNDP fellowship and obtained training on "Advanced Processing of Textile" from University of Leeds, UK.

9. Award :

a) **International**: Received " Discover Natural fibre Initiative innovation award 2019"(DNFI-2019) from "Discover Natural Fibre Initiative,",Germany. "Discover Natural Fibre Initiative" is an organization created with the initiative of United Nations General Assembly (www.dnfi.org).

b)National Award :Received Dr. "Triguna Charan Sen" memorial award" from the Institution of Engineers (India) in the year 1995-96

10. Research Guidance :

Number of Researchers awarded

i)M.Tech - 6

ii)Ph.D- 5

Number of researchers pursuing Ph.D – 6

11. A) Ongoing Research Projects:

S. No	**Title**	**Collaborating University**	**Agency**	**Grant/Amount Mobilized(Rs. Lakhs)**
01	Coating/finishing of textile based on jute and other natural fibers for technical applications	"Department of Apparel, Textile and Merchandising", Eastern Michigan University, USA	Office of the Textile Commissioner, Ministry of Textiles, Govt. of India under R & D scheme	25
02	Development of bag made from jute fabric and aluminium foil laminate for packaging tea	Nil	Ministry of Textile, Govt. of India under R & D scheme	26.08
Ongoing Consultancy Project :				

03	Technology upgradation for dyeing and printing of muslin and silk of WBKVIB, Part II	Nil	West Bengal Khadi and village industries Board	10.15

11. B) **Completed Research projects** :

Year	**Sponsored Projects carried out**	**Collaborating Institute**	**Sponsoring Agency**	**Funds Mobilised**
2013-2015	Development of Technical Textiles Based on Coated Jute Fabric for different applications"	"Department of Apparel, Textile and Merchandising", Eastern Michigan University, USA	Ministry of Textiles, Government of India under "Technological Mission on Technical Textile (TMTT) scheme.	Rs.39.14 lakhs
2001-02 to 2004-05	Development of Jute based Technical Textiles	Department of Textile Technology, Indian Institute of Technology, New Delhi, India	All India Council of Technical Education(AICTE) under Nationally Coordinated Project Scheme	Rs.20. Lakhs
2006-07 to 2009-2010	Development of Jute Based Coated Textiles	IIT,Kharagpur	All India Council of Technical Education (AICTE)under Nationally Coordinated Project Scheme	Rs.15 lakhs
2007-08	Studies on residual silica/silicate In raw jute and scope for elimination/reduction	Bangladesh Jute Research Institute ,Dhaka	"Common Fund For Commodities", Netherland	US$17,000/-
Completed Consultancy Project :				

2015-2017	Technology upgradation on Dyeing and Finishing of Muslin Yarns and Fabrics, Part I	Nil	West Bengal Khadi and Village Industries Board, Govt. of West Bengal	13.26

12. **Contribution in national Body** :

A)Honorary Member of Board of Academic Affairs(BOAA) of Indian Institute of Handloom Technology, Ministry of Textiles,Govt of India

B)Member of National Jute Board, Ministry of Textiles, Govt of India

12. Selected list of Publications:

a) **Journals:**

Serial No	**Publisher**	**Title, Journal Volume and Author**
01	**Springer**	Sustainable dyeing of silk with natural Dyes using natural sources of water, A. Mridha , A. Mukhopadhyay, B. Sarkar, S. Roy Maulik,, D. Das, *Journal of Institution of Engineers(E),***102(1)**,2021, 61-74
02	**NISCAIR**	Development of non-formaldehyde wrinkle resistant finish for cotton using carboxylic acids,P.Arya,S.Ghosh,D.Das, *Indian J.Fibre &Textile Research,* **45**,2020,475-481
03	**Taylor and Francis**	Development of biodegradable conductive cotton yarns by in-situ polymerization of pyrrole, Mallika Datta, Atin Chaudhuri, Mainak Mitra, Devarun Nath & Debasish Das,*The Journal of Textile Institute,* **110(1),** 2019,10-15
04	**Taylor and Francis**	Development of moisture vapour permeable waterproof cotton fabric by coating with blend of natural rubber latex and polyvinyl alcohol, D. Das, A. Chaudhuri, M. Mitra & S. Ghosh *The Journal of Textile Institute,* **108(8),** 2017, 1285-1290
05	**Elsevier**	Macro-structured carbon clusters for developing waterproof breathable conductive cotton fabric, K.Sirkar, D.Das, T. Chaki and S Chattopadhyay, *Carbon,* **116**,(2017)1-14,
06	**wileyonlinelibrary.com**	Retention and sustained release of fragrance by cyclodextrins functionalisesd cotton fabric modified using maleic anhydride, S. Bandopadhyay and D. Das *Flavour and Fragrance Journal,*

		32(3) ,2017,207-211
07	**SAGE**	Dyeing of EDTA-Modified Cotton With Reactive Dyes Debasish Das, Sumantra Bakshi, and Pinaki Bhattacharya,*Clothing and Textile Research Journal*, **34(3)**,2016, 196-201
08	**SAGE**	Simulataneous Dyeing and Finishing of Silk with Natural Colour and Itaconic Acid, D.Das,D,B.Datta and P Bhattacharya ,*Clothing* and *Textile Research Journal*,**32(2**), 2014, 93-106.
09	**Taylor and francis**	Finishing of Jute by polyacrylic rubber, Rajiv Munsi,Debasish Das and Atin chaudhuri, *J.Text.Inst*, **105(1),**2014,76-73
10	**Taylor and francis**	Dyeing of sericin modified cotton with reactive dye, D.Das ,S.Bakshi and P Bhattacharya, *J.Text.Inst.*,**102(3),**2014,34-67
11	**Taylor and Francis**	Finishing of silk with EDTA., D.Das,A.Mukherjee D.Chakraborty and P.Bhattacharya.,*J.Text.Inst*., **102(10)**,2012, 141-148
12	**Taylor and Francis**	Concurrent dyeing and Finishing of cotton with natural dye and citric acid under thermal treatment.,*J.Text.Inst*.,**102(6),**2011, 491-499
13	**Taylor and francis-**	Modification of cotton fabric with acrylamide for improving dyeability with Natural Dyes, , S.Ray Maulik D.Das and S.Bhattacharya.,*J.Text.Inst*., **102(2**), 2011, 131-139.
14	**Wiley Interscience Ltd.**	Finishing of silk with acrylic. acid, D.Das , S.Mukherjee and P.bhattacharya, *Journal of Applied Polymer Science*, **121(2),**2011, 770–776
15	**Taylor and Francis**	Finishing of cotton by polyacrylic rubber in presence of NaH_2PO_4 as catalyst under thermal treatment., D.Das and R Munsi ., *Journal of Natural Fibre*,. **5**, (**4**,) 2008, pp 383 – 395.
16	**Elsevier**	Modification of Cotton with acrylic acid in the presence of $K_2S_20_8$ and NaH_2PO_4 as catalysts under thermal treatment', P. Ghosh and D. Das**,** *European. Polym. J*, **36**, 2000 , 2505-2512
17	**Elsevier**	Modification of jute with low molecular weight glycols and a polyol under thermal treatment, P. Ghosh and D. Das**,** *European. Polym. J*, ***36***, (2000).*pp.* 2147-2153

18	**NiSCAIR**	Dyeing of wool and silk with Bixa Orellana, D.Das, S.Ray Moulik and S.C.Bhattacharya, *Indian.J.Fibre.Text.Res*, **32**, 366 (2007) pp 366-371
19	**Taylor and Francis**	Finishing of Cotton with Methacrylic Acid (MAA) in presence of NaH_2PO_4 and $K_2S_2O_8$ as Catalysts under Thermal treatment, Debasish Das, Rajiv. Munshi, *J. Text. Institute* ,**97**, (2006) pp519- 526
20	**Man Made Fibre Society**	Modification of the properties of silk by chemical treatment, P. Chowdhuri and D. Das, *Man made Textile in India*, February, 2006.,pp.62-69.
21	**Wiley Interscience**	Coating of jute with natural rubber, D.Das, R.B.Chavan, M. Datta and S. K. Datta, *J. Appl. Polym. Sc.***98,** (2005) pp. 484-490
22	**Tea Board of India**	Colouration of Wool and Silk with Tea, D. Das, S. Ray Moulik, *International J. Tea Sc*.**4,** (2005) pp17-21
23	**International Journal of Polymer Material**	Modification of cotton with low molecular weight glycols and a polyol under thermal treatment, P. Ghosh and D. Das**,** *J. Polym. Material, **19***, (2002).pp.111-115
24	**Elsevier**	Modification of jute with low molecular weight glycols and a polyol under thermal treatment, P. Ghosh and D. Das**,** *European. Polym. J*, ***36***, (2000).*pp.* 2147-2153
25	**Elsevier-**	Modification of Cotton with acrylic acid in the presence of $K_2S_20_8$ and NaH_2PO_4 as catalysts under thermal treatment', P. Ghosh and D. Das**,** *European. Polym. J*, **36**, (2000), pp. 2505-2512
26	**Wiley Interscience**	Modification of jute with acrylic acid (AA) in the presence of $K_2S_20_8$ and Na_3PO_4 as catalysts under thermal treatment', P. Ghosh and D. Das,*J. Appl. Polym. Sc.*, **68**, (1998).pp.63-69
27	**NISCAIR**	Reactive dyeing behaviour of ramie fabrics pretreated with different swelling agent and their rub fastness property, D. Das, A. K. Samanta and P. C. Dasgupta , *Indian J. Fibre. Text. Res*., **22**, (1997).pp. 53-57

28	**Institution of Engineers(India)**	Modification of rotor spun jute/cotton blended yarn properties by causticization, A. K. Samanta, D. Das and S. K. Sett , *J. Insst. Engg(I)*, **Tx 96**, (1995)pp.12-18
29	**Internaltional Journal of Polymer Material**	Modification of jute with citric acid', P. Ghosh, D. Das and A. K. Samanta, *J. Polym. Material*, **12**, (1995),pp.297-302
30	**NISCAIR**	'Effect of selective pretreatment and different resin post treatment on jute/viscose upholstery fabric', P. Ghosh, D. Das and A.K. Samanta, *Indian. J. Fibre. Text. Res*., **19**, (1994),pp. 277-282
31	**Institution of Engineers(India)**	Studies on quantitative colour measurements of Direct dyed jute fabric in relation to computerized colour matching, A. K. Samanta and D. Das, *J. Inst. Engg. (I)*, **TX 73**, (1992).pp. 53-58
32	**-do-**	Some studies on quality performance of jute/cotton Furnishing Fabric, A.K.Samanta, P.Chakraborti and D.Das, *J. Inst. Engg. (I)*, **TX71,** (1990),pp. 45-50

b) Selected Conference /Seminar Volumes:

Sl No.	**Title of the paper**	**Name of the Conference**	**Date and Place**
01.	Breathable waterproof coating of cotton with blend of natural rubber latex containing ammonium acetate.	"International Conference on Natural Fibres-Smart Sustainable Solutions"	1st - 3rd July 2019 in Porto-Portugal organized by University of Minho, Portugal.
02.	Breathable waterproof coating of cotton with blend of natural rubber and ploychrloroprene containing ammonium acetate.	"International Conference on Technical Textiles and Nonwovens (ICTN)-2018"	6-8th December 2018 in New Delhi organized by IIT, Delhi
03.	Concurrent dyeing and finishing of cotton based garment with natural colour and itaconic acid	"International conference on cutting edge technology-redefining textiles National Institute of Technology,	On 8-10 April,2016 at NIT,Jalandhar.

		Jalandhar	
04	Breathable Waterproof Coating for Jute with Compound based on Natural Rubber Latex	International Conference on "Jute and Allied Fibres :Changing Global Scenario" of National Institute of Research on Jute and Allied Fibre Technology, ICAR,Kolkata and Indian Natural Fiber Society.	Bhasa Bhavan, National Library, Kolkata on 1-3 August,2014
05.	Development of moisture vapour permeable waterproof coating for cotton	Emerging Trends in Traditional and Technical Textiles	11^{th}-12^{th} April,2014 at National Institute of Technology, Jalandhar, Punjab, India.
06.	Development of breathable waterproof coating for jute fabric	International Conference on Natural Fibres	1-3 August,2014,The Indian natural fibre Society, Indian council for Agricultural Research, Kolkata, India.
07.	"Methacrylic acid Finish of cotton based Garment"	Fibre Society's Spring 2012 conference (ISBN:978805591902-5)	23^{th} -25^{th} May, 2012,by Fibre Society, St Gallen, Switzerland.
08.	Concurrent dyeing and finishing of cotton with natural dye and citric acid	International Conference on "TEXTILE : A DECADE AHEAD". Organised by National Institute of Textile research Association and Indian Institute of Technology, New Delhi, India	9^{th}-10^{th} September'2011, New Delhi.
09.	"Dyeing of Sericin modified Cotton with Reactive Dye in absence of Salt"	Fibre Society's spring 2010 Conference (ISBN:978605591902-3	12^{th} to 14^{th} May'2010., Bursa, Turkey.
10.	Finishing of cotton by polyacrylic rubber in presence of NaH_2PO_4 as catalyst under thermal treatment	International conference on rubber and rubber-like materials	8^{th}-10^{th} January,2008, Rubber Technology Centre, Indian Institute of Technology,Kharagpur,India

10.Patent : Filed patent titled" Rubber Coated cotton-jute fibre based textile" Patent application no 201831031949,dt. 27.8.2019.

10. **Contribution in Handloom Sector:**

ii)Acted as Consultant in "Sfurti" project of Ministry of Micro,Small and Medium Enterprises implemented by National Institute of Fashion Technology,Kolkata. And successfully introduced power driven modern process line at Murshidabad District of West Bengal for Muslin and silk products.

iii) Implemented program on Eco-friendly preparatory process ,dyeing and finishing in "Swarnajayanti Gram Sarojgar Yojana(SGSY) scheme as faculty of National Institute of Fashion Technology , Kolkata covering about 2500 artisans.

iv)Used to deliver lecture and hands on practice session as an expert for transformation of traditional practices in handloom dyeing across the West Bengal Handloom Cluster session at Weavers service Centre, Kolkata.

v) Chaired session in seminars conducted by Ministry of Micro and Small scale Industries and textile for Textile at Milan Mela, Kolkata.

11. Others

c) **Organized International Conference** on "Textile and Clothing" as **Convener** utilizing UGC fund involving about 7 Countries from USA, Europe and ASIA on 3-5th january'2017 at University of Calcutta under the name "TCPFT-2017".

d) Contributed as Member of Scientific Committee for International Conference "ICTX-2020" on "Innovative Approaches for the Development of Sustainable Textile Products and Processes" from February 9th & 10th, 2020 in the Lalit Great Eastern, Kolkata, India in association with Textile Engineering Division, Institute of Engineers (India).

e) Selected Review Publications:

01	***Asian Textile Journal***.,	Natural dye and its applications, D.Das and R.Shah , *Asian Textile Journal*.,**20(5),** (2011) pp.54-58	2011
02	***Asian Textile Journal***	Easycare finishing of cotton based garments.D.Das	2010

		and B.Agrawal, *Asian Textile Journal*,**19(1),** (2010) p. 55-59	
03	***Indian Science Cruiser***	Functional Polymer for Fashion Apparel,D.Das and B.Kaur, *Ind,Sc.Cruiser*,**23**May,(2009) pp.40-45	
04	**Colourage**	"Chemical processing of diversified jute products",part I A,K,Samanta and D.Das Colourage,XLIV 1997pp41-47	1997
05	**Colourage**	Chemical processing of diversified jute products",part II A,K,Samanta and D.Das Colourage,XLV 1997pp 79-85	1997
06	**Colourage**	Review of Basic and Modified basic dyes foracrylic fibre,colourage,September,1992,pp21-29	1992

12. Membership of Societies:

a)Textile Association of India : Patron Member

b)Indian Natural Fibre Society : Life member

c) Institute of Science Education and Culture: Life member