



# UNIVERSITY OF CALCUTTA

## PRO FORMA FOR PROFILE OF THE WHOLE-TIME FACULTY MEMBERS

**(PLEASE FURNISH THE RELEVANT INFORMATION ONLY)**

1. NAME: **Dr. Swapan Kumar Ghosh** DESIGNATION: **Professor** DEPARTMENT: **Jute and Fibre Technology**
2. GENDER: **Male** CATEGORY: **GEN./SC/ST/OBC/MINORITY** DATE OF BIRTH: **06.01.1963** DATE OF JOINING IN THE UNIVERSITY: **01.12.1992 as SRF in the Institute of Jute Technology (IJT) and IJT has been converted to a Department of Calcutta University on and from 01.07.2011.**
3. RESIDENTIAL ADDRESS: **Staff Quarter, Institute of Jute Technology, 35, Ballygunge Circular Road, Kolkata-700019, West Bengal, India** PHONE: **Res- 033-24551957; Mobile- 09831324354** E-MAIL: **ijtskg40@gmail.com; ijtskg40@rediffmail.com**
4. HIGHEST QUALIFICATION: **Ph.D. (Engineering) from the Department of Civil Engineering, Jadavpur University, Kolkata-700032** SPECIALIZATION / MAJOR THRUST AREAS: **Fabric Manufacture, Nonwoven Technology, Geotextile - Jute Geotextile, Agrotextile, Composite and other Technical Textiles**
6. LIST OF HONOURS/AWARDS RECEIVED:

Sl. No.	Honour / Award	National	International
1.	Recipient of Dr. Triguna Charan Sen Memorial National Award-2006-07 By Institution of Engineers (India) for Best Research Paper Entitled "Seam Performance Of Jute Bags Made From Jute Fabrics With Non – Conventional Selvedge Produced In Shuttleless Loom"	National	-
2.	Award for presentation in 28th INDIAN ENGINEERING CONGRESS, 20-22 Dec. 2013 IE(I), Tamil Nadu State Centre, Tamil Nadu, India for the paper entitled "Design and Engineering of Woven Jute Geotextiles for potential applications in the field of Geotechnical Constructions"	National	-
3.	All India Chairman, Textile Engineering Division Board (TXDB), The Institution of Engineers (India), for the period 2016-17	National	-
4.	Hon'ble Member, H-4 Committee, Indian Roads Congress (IRC), 2015-17		
5.	Honoured as the Chairman, TEXCON -2018, Sri Vaishnav Vidyapith, Indore, SVVIT, Indore on 09-10.03.2018.	National	-



6.	Presided as the Chairman of Sectoral Technical Committee (STC)-02, Jute, Textiles and Leather, 5th meeting of Technical Management Board (TMB), SARSO-SAARC at New Delhi on 07.03.2018.		International
7.	Honoured as the Chairman, Technical Committee, West Bengal State Centre, The Institution of Engineers (India), for the period 2018-20 for the period 2018-20.	National	
8.	Board Member, WORLD ASSOCIATION OF NATURAL FIBERS RESEARCH, University of Minho, Portugal.		International

7. PATENT(S) APPLIED FOR / GRANTED :

Sl. No.	√ Applied for / Granted	Title	National	International
1.	PROVISIONAL INDIAN PATENT REF. NO. /APPLICATION NO. 805/KOL/2015, DATED 22.07.2015	BITUMINIZED JUTE PAVING FABRIC	One	

8. VISITING ASSIGNMENT(S) (give details) :

(a) National :

- Delivered Invited Lecture in BFAD Course at Rani Birla Girl's College, University of Calcutta in 2012.
- Invited Lecture on Potential Applications of Open Weave Jute Geotextile (Soil Saver) in Geotechnical Constructions, TEXCON -2018 National Seminar Sri Vaishnav Vidyapith, Indore, SVVIT, Indore, 9th -10th March, 2018.

(b) International:

- Attended Special Training Course on Modern Developments in the Field of Textile Technology, Processing Techniques of Fibres-Yarn Fabric Manufacture and Clothing Technology HRD- Training-Design-Delivery-Examination and Presentation Management Training at Dept. of Textile Industries, University of Leeds, West Yorkshire, England in 1996.
- Attended M/S. Dilo Systems GmbH, Eberbach, Germany for undergoing training in their Nonwoven Machinery Manufacturing Plant during July 2013.
- Organized short term training (2 weeks) for Jute Mill Supervisors, workers at different Jute Mills in Bangladesh during November 2013.
- Presented in the International Seminar of CFC/IJSG/21 Project, Dhaka, Bangladesh during April 2014.
- Presided as the Chairman of Sectoral Technical Committee (STC)-02, Jute, Textiles and Leather. 5th meeting of Technical Management Board (TMB), SARSO-SAARC at New Delhi, South Asian Regional Standards



9. ANY OTHER RELATED MATTER:

**10. RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS**

**A) Published papers in Journals**

Sl. No.	Title with Page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed Impact Factor, if any	No. of Co- author	Whether you are the main author
1.	Some studies on mechanical properties and atmospheric dyeing of solvent pretreated polyester multifilament yarn. Vol.20, Mar.,1995, Pp 23-26	Indian Journal of Fibre and Textile Research	0975-1025 (Online) 0971-0426 (Print)	Yes (0.6)	4	No
2.	An investigation of productivity in few jute mills of India and Bangladesh and suggested measures for productivity improvement in weaving section. Vol. XLIX(10), Oct., 2006, Pp 382 -402	Man Made Textiles in India	0377-7537	NA  But recognized and reputed journal having ISSN number	1	Yes
3.	Geosynthetics –Its functional properties and potential applications. Vol.-87, August, 2006, Pp 8-9	Journal of The Institution of Engineers (India)-Textile Engineering Division, Series-E	2250-2491(Online) 2250-2483 (Print)	Yes (0.5)	1	Yes
4.	Seam Performance of Jute Bags made from Jute Fabrics with Non – conventional Selvedge Produced in Shuttleless Looms Vol. 87, Feb., 2007, Pp 16 – 22	Journal of The Institution of Engineers (India)-Textile Engineering Division, Series-E	2250-2491(Online) 2250-2483 (Print)	Yes (0.5)	2	Yes
5.	Construction of Unpaved Rural Road Using Jute-Synthetic Blended Woven Geotextile Fabric- A Case Study Vol. 27, Aug., 2009, Pp 503 – 512	Geotextiles and Geomembranes	0266-1144	Yes (2.8)	3	Yes
6.	A Review on Bitumen and Its Adherence with Geotextile Vol. XL1(10), Oct.,2013, Pp 356-363	Man Made Textiles in India	0377-7537	NA  But recognized and reputed journal having ISSN number	4	Yes



7.	An Analytical Study on Test Standards for Assessment of Jute Geotextiles for Global Acceptance. Vol.02(12), Dec., 2013, Pp 457-463	International Journal of Research in Engineering and Technology	2319-1163 (Online) 2321-7308 (Print)	Yes  (1.96)	1	Yes
8.	Development of Jute Geotextiles in combating Geotechnical Problems. Vol. 3(1), Jan.,2014, Pp 1-12	Research Journal of Engineering Sciences	2278-9472	NA  But recognized and reputed journal having ISSN number	sole	Yes
9.	A Review on Jute Geotextile and its Geo-Technical Applications with respect to Environmental Concern. Online journal	International Journal of Innovative Research in Science and Engineering	2347-3207	NA  But recognized and reputed journal having ISSN number	sole	Yes
10.	Design and Engineering of an Innovative Bituminized Jute Paving Fabric for Potential Application in Road Construction. Vol. 3(2), Feb., 2014, Pp 608-621	International Journal of Engineering Sciences and Research Technology	2277-9655	Yes (1.852)	3	Yes
11.	An Evaluation of Drapability of Jute Fabric DOI:10.154440478.2014.903818 Volume-12, Issue-02, Pp 132-140	Journal of Natural Fibres	1544-046X (Online) 1544-0478 (Print)	Yes  (0.55)	3	Yes
12.	A Review on Jute Geotextile- Part1 Vol. 3(2), Feb., 2014, Pp 378-386	International Journal of Research in Engineering and Technology	2319-1163 (Online) 2321-7308 (Print)	Yes  (1.96)	2	Yes
13.	A Review on Drapeability of Natural Fibre-made Fabrics. Vol. 3(3), Mar., 2014, Pp 346-358	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA  But recognized and reputed journal having ISSN number	2	Yes
14.	Improvement of Quality of a Modern Commercial Silk Mill through effective Process and Machine Control Parameters Vol. 3(5), May., 2014, Pp 73-79	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA  But recognized and reputed journal having ISSN number	2	Yes
15.	Engineering of Multilayer Jute Sandwich Fabric for Potential Application in the Field of Geotechnical Engineering Vol. 3 (3) May, 2014, Pp: 185-190	Research Journal in Engineering and Applied Sciences	ISSN: 2276-8467	Yes  (3.82)	2	Yes



16.	Design and development of Woven Jute Geotextiles for potential applications in the field of Geotechnical constructions DOI:10.1080/00405000.2014.929272 Volume-106, Issue-05, pp: 550-563	The Journal of the Textile Institute	1754-2340 (Online) 0040-5000 (Print)	Yes (0.725)	4	Yes
17.	A Critical Study on Test Standards for evaluation of Jute Geotextiles	Bangladesh Journal of Jute and Fibre Research	0253-5424	NA But recognized and reputed journal having ISSN number	3	Yes
18.	Study on Generation of Knotting Waste in Weaving Cotton Fabric and Its Remedial Measures Vol. 3 (6) June, 2014, Pp: 21852194	International Journal of Engineering Research and Technology	2278-0181	Yes (1.76)	2	Yes
19.	Improvement of Life Expectancy of Jute Based Needlepunched Geotextiles through Bitumen Treatment DOI: 10.1007/s40034-014-0036-y	Journal of The Institution of Engineers (India)-Textile Engineering Division-Series E	2250-2491(Online) 2250-2483 (Print)	Yes (0.5)	4	Yes
20.	Development of an Innovative Bituminized Jute Paving Fabric (BJPF) along with its Commercial Field Trials for Potential Application in the Field of Geotechnical Construction with an Eye Towards Global Concern. DOI:10.1080/15440478.2014.96221	Journal of Natural Fibres	1544-046X (Online) 1544-0478 (Print)	Yes (0.55)	3	Yes
21.	Care Label Issues of Silk Fabric. Vol. (3)7, July, 2014, Pp:1-5	International Journal of Research in Engineering and Technology	2319-1163 (Online) 2321-7308 (Print)	Yes (1.96)	2	Yes
22.	Design and Engineering of Open Weave Jute Soil Saver for potential application in the field of soil erosion control and hill slope management.	Journal of Natural Fibres	1544-046X (Online) 1544-0478 (Print)	Yes (0.55)	2	Yes
23.	Designing and engineering of Jute Geotextile (JGT) for River bank protection and its subsequent Implementation in river Phulahar. DOI:10.1080/15440478.2015.10043 93	Journal of Natural Fibres	1544-046X (Online) 1544-0478 (Print)	Yes (0.55)	2	Yes



24.	A Comparative Study on Fastness of Silk Fabric Dyed with Reactive Dye and Metal Complex Dye. Volume-3, Issue-11, Nov. 2014, pp:72-727	International Journal of Research in Engineering and Technology	2277-9655	Yes (2.114)	2	Yes
25.	Standardization of Jute Geotextiles - Some Issues And Suggestions. Volume-28, Issue-05, Dec.-January 2015, Pp:4-11	Standards India	0970-2628	NA But recognized and reputed journal having ISSN number	1	Yes
26.	Laboratory Simulation Study of Bituminized Jute Paving Fabric for Its Commercialization and Potential Application in Road Constructions. Vol. 4(ISC-2014), 1-5 (2015)	Research Journal of Recent Sciences	2277-2502	Yes (0.3722)	sole	Yes
27.	A Troubleshooting Approach towards the Generation of White Patches on Silk Fabric. Volume-04, Issue-05, May 2015, pp: 50-55.	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA But recognized and reputed journal having ISSN number	2	Yes
28.	Effect of variation of pick density on the properties of jute fabric samples woven in S4A loom and a comparative study with the standard fabric (IS 12650: 2003 2nd revision). Volume-04, Issue-06, June 2015, pp: 188-195	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA But recognized and reputed journal having ISSN number	2	Yes
29.	Bituminized Jute Paving Fabric (BJPF) for Road Constructions - A Potential Innovative Approach. Volume-05, Issue-01, January 2016, pp: 1158-1164	International Journal of Innovative Research in Science, Engineering and Technology	2319-8753 (Online) 2347-6710 (Print)	NA But recognized and reputed journal having ISSN number	2	Yes
30.	An Overview on Test Standards for Evaluation of Jute Agrotextiles. Volume-05, Issue-02, February 2016, pp: 49-53	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA But recognized and reputed journal having ISSN number	2	Yes
31.	Study of the effect of different weave constructions on the drapeability of jute woven fabric. DOI:10.1080/00405000.2016.11696	The Journal of the Textile Institute	1754-2340 (Online) 0040-5000 (Print)	Yes (0.725)	4	Yes
32.	Standardization of Jute Geotextiles - Some Issues and Suggestions	Standards India	0970-2628	NA But recognized and reputed journal having ISSN number	1	Yes



33.	Design and Engineering of Jute Geotextile. Vol.1 (15), 2016, pp: 45-50	American International Journal of Research in Science Technology	2328-3580 (Online) 2328-3491 (Print) 2328-3629 (CDROM)	NA But recognized and reputed journal having ISSN number	3	Yes
34.	Causes of Starting Mark on Silk Fabric and its Remedies. Vol.1 (15), 2016, pp: 79-83	American International Journal of Research in Science Technology	2328-3580 (Online) 2328-3491 (Print) 2328-3629 (CDROM)	NA But recognized and reputed journal having ISSN number	1	Yes
35.	Study of the effect of Weft Parameters on the Properties of Jute Fabrics produced in S4A loom woven from single and plied weft yarns. Vol.5(8), 2016, pp: 15001-15011	International Journal of Innovative Research in Science and Engineering	2319-8753 (Online) 2347-6710 (Print)	NA But recognized and reputed journal having ISSN number	2	No
36.	Comparative Study of the Thermal Insulation Properties of Jute and Jute - Polyester fibre Blended Nonwoven Fabrics Vol. 5(8), 2016, pp: 43-49	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA But recognized and reputed journal having ISSN number	3	No
37.	Industrial Work Practices on Silk Twisting – Part 1. vol. XLIV(11), pp:387-391	Man Made Textiles in India	0377-7537	NA But recognized and reputed journal having ISSN number	2	No
38.	Potential Applications of Open Weave Jute Geotextile (Soil Saver) in Meeting Geotechnical Difficulties.	Procedia Engineering	1877-7058	Yes (SNIP = 0.783)	2	No
39.	Laboratory simulation study of Bituminized Jute Paving Fabric for its potential application in road constructions. Vol. 02 (08), 2017, pp: 32-37	International Journal of Engineering Research and Allied Sciences	2455-9660	NA But recognized and reputed journal having ISSN number	1	Yes
40.	One Day National Seminar on Application of Emerging Technology of Jute Geotextiles in Civil Engineering.	Indian Journal of Fibre & Textile Research	0975-1025 (Online)	Yes (0.366)	3	No
41.	One Day HRD Seminar covering BIS standards for Jute and Textiles and HRD need for Jute Industry. Vol.40, September 2015, pp: 337-340	Indian Journal of Fibre & Textile Research	0975-1025 (Online)	Yes (0.366)	3	No
42.	Study on Potential Application of Natural Fibre Made Fabrics as Thermal Insulation Medium. Vol.1 (15), 2016, pp: 8-13	American International Journal of Research in Science, Technology, Engineering and Mathematics	2328-3580 (Online) 2328-3491 (Print) 2328-3629 (CDROM)	NA But recognized and reputed journal having ISSN number	3	No





43.	Jute Geotextile-A Potential Step to reduce Carbon Foot Print in Civil Engineering Construction. Vol.3(7), 2016 pp:306-310	International Journal of Innovative Science, Engineering & Technology	2348-7968 (Online)	NA But recognized and reputed journal having ISSN number	3	No
44.	A Critical Review on Nonwoven Medical Disposable Products. Vol.2(09), 2017, pp:1-3	International Journal of Engineering Research and Allied Sciences	2455-9660	NA But recognized and reputed journal having ISSN number	3	Yes
45.	A Review on Surface Modification of Textile Fibre by High Efficiency Particulate Air (HEPA) Filtration Process. Vol.6(10), 2017, pp:190-193	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA But recognized and reputed journal having ISSN number	3	No
46.	A Review on Development of Medical Disposable Baggage from Jute blended fabrics. Vol.-07(01), 2018, pp: 78-80	American Journal of Engineering Research	2320-0847 (Online) 2320-0936 (Print)	NA But recognized and reputed journal having	3	No
47.	A Brief Review on Plasma Treatment of Textile Materials. Vol.-03(01), pp: 1019-23	Advance Research in Textile Engineering	2572-9373	Yes	3	Yes
48.	A facile comparative approach towards utilization of waste cotton lint for the synthesis of nano crystalline cellulose crystals along with acid recovery. doi.org/10.1016/j.ijbiomac.2017.11.123, pp: 1246–1252, 2018.	International Journal of Biological Macromolecules	0141-8130	Yes	6	No
49.	Jute cellulose nano-fibrils/hydroxyl propyl methylcellulose nanocomposite: A novel material with potential for application in packaging and transdermal drug delivery system, doi.org/10.1016/j.indcrop.2017.12.069, pp: 633–643, 2018.	Industrial Crops & Products	0926-6690	Yes	7	No
50.	Synthesis of methylcellulose/cellulose nanocrystals nanocomposites: Material properties and study of sustained release of ketorolac tromethamine, doi.org/10.1016/j.carbpol.2018.01.108, pp: 168–180, 2018.	Carbohydrate Polymers	0144-8617	Yes	7	No





51.	Effect of cellulose nanocrystals on the performance of drug loaded in situ gelling thermo-responsive ophthalmic formulations, International Journal of doi.org/10.1016/j.ijbiomac.2018.11.217, pp: 235–245, 2018.	International Journal of Biological Macromolecules	0141-8130	Yes	11	No
52.	Bioengineering of river earth embankment using natural fibre based composite-structured geotextiles, 2019. Doi.org/10.1016/j.geotexmem.2019.03.002	Geotextiles and Geomembranes	0266-1144	Yes	1	No

**B) (i) Articles / Chapters published in Books: NIL**

**(ii) Full Papers in Conference Proceedings**

Sl. No.	Title with page nos.	Details of Conference Publications	ISSN/ISBN NO.	No. of co-authors	Whether you are the main author
1.	Productivity Improvement in Loom Shed 2003, Pp 1-33	Proceedings of International Workshop on Productivity Improvement of Jute Industry, Organized by International Jute Study Group, Dhaka, Bangladesh, held on 6-7th December, at IJSG-Auditorium, Dhaka.	N/A	(1)	Yes
2.	Scope of Product Specific Applications of Jute in Diversified Sector 2005, Pp 33-40	Proceedings of the 5th All India People's Technology Congress held at Science City Auditorium, Kolkata, on 19-20th Feb.2005.	N/A	(2)	Yes
3.	High Potential Jute Diversified Products in Rural Sector : Product Specific Applications 2005, Pp 1-7	Proceedings of 18th National Convention of Textile Engineers and National Seminar on Innovative and Diversified Jute Products, held at Sir R N Mookerjee Hall, WBSC, IE (I), on 16-19th March.	N/A	(2)	Yes
4.	Production of Jute Diversified Fabrics in Handlooms and Power looms. 2005, Pp 15-20	Proceedings of 18th National Convention of Textile Engineers and National Seminar on Innovative and Diversified Jute Products, held at Sir R N Mookerjee Hall, WBSC, IE (I), on 16-19th March.	N/A	(1)	Yes
5.	Ready Reckoner of an Export Oriented Spinning Unit through a complete Software Package. 2006, Pp 11-15	Proceedings of All India Seminar on Exportable Jute and Textile Products held at Sir R N Mookerjee Hall, WBSC, IE (I), on 29-30th March, 2006.	N/A	(2)	Yes
6.	Jute Geotextile –Its Properties and Comparative Evaluation. 2007, Pp 100-110	Proceedings of Workshop on Application of Geotextiles- Present and Future, Organized by Central Board of Irrigation and Power (CBIP), Govt. of India, 20-21st September, Gujarat, 2007.	N/A	(2)	Yes
7.	Construction of Unpaved Rural Road Using Jute-Synthetic Blended Woven Geotextile Fabric- A Case Study. 2007, Pp 122-137	Proceedings of Workshop on Application of Geotextiles- Present and Future, Organized by Central Board of Irrigation and Power (CBIP), Govt. of India.,20-21 <sup>st</sup> September, Gujarat, 2007.	N/A	(3)	Yes
8.	Application and Scope of Geosynthetic	Proceedings of All India Seminar on Technical Textiles in Civil Engineering,	N/A	(1)	Yes



	and Geojute Tubes. 2007, Pp 66-69	Organized by W. B. State Centre of The Institution of Engineers (India), September, Kolkata, 2007.			
9.	A Critical Review on Quality Control and Testing of Jute Geotextiles. 2008, Pp 120-137	Proceedings of Int. Workshop on Jute Geotextiles - Technical Potential & Commercial Prospects, Organized by International Jute Study Group (IJSJG), Dhaka, Bangladesh. 6th April, Kolkata, 2008.	N/A	(2)	Yes
10.	Testing of Jute Geotextiles-Issues and Suggestions.	Proceedings of Indian Geotechnical Society (IGS), Kolkata Chapter, at M.N. Saha Auditorium, CGCRI, Kolkata on Sep.09-10, 2011	N/A	(3)	Yes
11.	Design and Development of Woven Jute Geotextiles for Applications in Road Constructions.	Proceedings of All India Seminar on 26th Indian Engineering Congress on "Towards Prosperous India: Challenges for Engineers"	N/A	(2)	Yes
12.	Designing And Engineering Of Woven Jute Geotextiles For Geotechnical Applications 2012, pp: 23	Proceedings of All India Seminar on All India Seminar on "Innovation and Emerging Trends of Jute, Textile and Garment Products"	N/A	(3)	Yes
13.	Design and Engineering of Bituminized Jute Overlay Paving Fabric to act as a Reinforcement to bitumen mastic. 2013, pp 72-73	Proceedings of Centenary Session on 100 <sup>th</sup> Indian Science Congress- Engineering Sciences and Material Sciences Divisions Jointly organized by University of Calcutta and the Indian Science Congress Association on Jan3-7,2013, Kolkata	N/A	(3)	Yes
14.	Natural Fibres and Jute Geotextiles. 2013, pp 56-57	Proceedings of Centenary Session on 100 <sup>th</sup> Indian Science Congress- Engineering Sciences and Material Sciences Divisions Jointly organized by University of Calcutta and the Indian Science Congress Association on Jan3-7,2013, Kolkata	N/A	(1)	Yes
15.	Design and Development of Woven Jute Geotextiles for Potential Applications in the Field of Geotechnical Constructions. 2013, pp 96-110	Proceedings of 26 <sup>th</sup> National Convention on "Futuristic Fibres" Organized by Madhya Pradesh State Centre, IE (I), on Feb 2-3, 2013, Bhopal.	N/A	(3)	Yes
16.	Suitable Rot-Resistant Treatment to Enhance Durability of Jute Geotextile 2013, pp 31	Proceedings of Indian Technology Congress on "Towards making India a Hub of Knowledge and Innovation" Organized by ITC, Karnataka, on July24-25, 2013, Bangalore	N/A	(3)	Yes
17.	Studies on Jute Geotextile and its Geotechnical Applications with respect to Eco-Concern. 2013, pp 177-182	Proceedings of International Conference on "Environment and Its Impact on Society" Organized by J D Birla Institute, on Aug 18-20, 2013, Kolkata	N/A	sole	Yes
18.	Optimization of Property Parameters of Woven Jute Geotextiles for potential applications in the field of Geotechnical Constructions. 2013, pp 37- 60	Proceedings of National Seminar on "Development and Application of Potentially Important Jute Geotextiles (CFC/IJSJG/21)" Organized by National Jute Board,MoT, GoI on Sep 19, 2013, Kolkata	N/A	(2)	Yes
19.	Jute Geotextile- A potential step to reduce Carbon Footprint in Civil Engineering Construction. 2013, pp 7	Proceedings of One Day Seminar-cum-buyer seller meet on "Jute based Green Textile Products and its Environmental Impact" Organized by West Bengal State Centre, IE (I), on Sep 28, 2013, Kolkata.	N/A	(2)	Yes
20.	Development of Jute Geotextile in	Proceedings of 3 <sup>rd</sup> International Science Congress on "Innovation with Global	ISSN 2278-	sole	Yes



	combatting Geotechnical Problems. 2013, Pp 155	Responsibility” organized by ISCA at Karunya University, Coimbatore, Tamil Nadu on Dec.08 and 09, 2013.	9472		
21.	Enhancement of Life Expectancy of Jute based Needle Punched Nonwoven Geotextiles by suitable Bitumen Treatment for the use of different Civil Engineering Constructions. 2014.	Proceedings of 63 <sup>rd</sup> Anniversary Day Celebration with one day technical conference on “Recent Developments in Textiles” organized by the Textile Association (India), West Bengal Unit March 29,2014	N/A	(2)	Yes
22.	Testing of Woven Jute Geotextiles and Open Weave Soil savers for Geotechnical Application. 2014, pp 16	Proceedings of National Seminar on “Development and Application of Potentially Important Jute Geotextiles (CFC/IJSG/21)” Jointly organized by National Jute Board, MoT, GoI and IJSG, Dhaka on Apr 01, Bangladesh.	N/A	(2)	Yes
23.	Engineering of Multilayer Jute Sandwich Fabric for Potential Application in the Field of Geotechnical Engineering. 2014, Pp 7	Proceedings of International Conference on “Emerging Trends in Traditional and Technical Textiles” organized by Dept. of Textile Technology, Dr.B.R.Ambedkar National Institute of Technology, Jalandhar, India, April 11 <sup>th</sup> , 12 <sup>th</sup> 2014.	N/A	(2)	Yes
24.	Optimization of Property Parameters of Woven jute Geotextiles for potential applications in the field of Civil Engineering Constructions. 2014, pp 90- 93	Proceedings of Indo-Czech International Conference on “Advancements in Speciality Textiles and their application in Material Engineering and Medical Sciences” organized by Kumaraguru College of Technology and University of Liberec, Czech Republic on Apr 29 and 30, 2014, Coimbatore.	N/A	(2)	Yes
25.	Continuing Awareness Programme on Jute Geotextiles for Practicing Civil Engineers of Government of West Bengal and other State Governments. April 2014	Course Material on Continuing Awareness Programme on Jute Geotextiles. Department of Jute and Fibre Technology, IJT, University of Calcutta and National Jute Board (NJB), MoT, GoI, Kolkata on Apr 24, 2014	N/A	(2)	Yes
26.	Design and Development of Bituminized Jute Paving Fabric for Potential Application in the field of Geotechnical Constructions. August 2014	Book of Abstracts- International Conference on Natural Fibres “Jute & Allied Fibres”. The Indian Natural Fibre Society (TINFS) in collaboration with NIRJAFT, Kolkata, CRIJAF, Barrackpore and NJB, Kolkata on Aug 1-3, 2014.	N/A	(2)	Yes
27.	Design and Engineering of Bituminized Jute Paving Fabric for potential application in the field of Geotechnical Constructions. January 2015	Proceeding -102ndSession of Indian Science Congress- Material Sciences Section, Mumbai. ISCA and University of Mumbai. Jan 03-07, 2015, Mumbai	N/A	(2)	Yes
28.	“HRD – Workshop for Jute Industry” July 2015	Organized by Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta on 28.07.2015	N/A	(1)	Yes
29.	“Promotion of Agrotexiles under the scheme for promoting usage of agrotexile in North Eastern Region of India” August 2015	Organized by Synthetic & Art Silk Mills’ Research Association (SASMIRA) In association with Department of Jute and Fibre Technology, University of Calcutta on 13-14.08.2015	N/A	(2)	Yes
30.	“Occupational mapping and functional analysis of all categories of workforce employed in the jute industry” November 2015	Jointly Organized by Department of Jute and Fibre Technology, Institute of Jute Technology University of Calcutta and Textile Sector Skill Council on 24.11.2015	N/A	(1)	Yes



31.	“Occupational mapping and functional analysis of all categories of workforce employed in the jute industry” December 2015	Jointly Organized by Department of Jute and Fibre Technology, University of Calcutta, and East India Commercial Company Ltd. (A. P.) and Textile Sector Skill Council on 11.12.2015.	N/A	(2)	Yes
32.	A Bio-Engineering application of open weave jute geotextile for soil erosion control July 2015	One day HRD Seminar on BIS Standards –Standardization in Technical Textiles – Gateway to Make in India. Organized by DJFT, IJT, CU and BIS, New Delhi on 20.07.2015	N/A	(2)	Yes
33.	Optimization of Property Parameters of Woven Geotextiles for potential applications in the field of Geotechnical Constructions. June 2016	Book of Papers-International Seminar on Jute Geotextiles under the Project “Development and Application of Potentially Important Jute Geotextiles (CFC/IJSG/21)”, Kolkata. Organized by National Jute Board, MoT, GoI, in collaboration with and JDPC, Dhaka, Bangladesh and Common Fund for Commodities (CFC), Amsterdam, The Netherlands on June 22-23, 2016, Kolkata	N/A	(3)	Yes
34.	Potential Applications of Open Weave Jute Geotextile (Soil Saver) in abating Geotechnical Problems. January 2017	International Conference on “Textile and Clothing: Present and Future Trends”. Organized by Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta on 3-5th January, 2017 at Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, JD-2, Sector-III, Salt Lake, Kolkata-700098, West Bengal, India.	N/A	(2)	Yes
35.	Intervention of Frontier Technologies in Textile and Jute Sector. March 2017	30th National Convention of Textile Engineers and National Seminar organized by Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta in collaboration with WBSC, IE(I) and National Jute Board, Ministry of Textiles, Govt. of India on 03-05 March, 2017.	N/A	(2)	Yes
36.	Potential Applications of Open Weave Jute Geotextile (Soil Saver) in Meeting Geotechnical Difficulties. June 2017	3rd International Conference on Natural Fibers: Advanced Materials for a Greener World, ICNF 2017, 21-23 June 2017, Braga, Portugal	Procedia Engineering 00 (2017) 000–000	(2)	Yes
37.	Open Weave Jute Geotextile (Soil Saver) in Geotechnical Constructions. March 2018	TEXCON -2018 National Seminar. Organized by Sri Vaishnav Vidyapith, Indore, SVVIT, Indore, 9th -10th March, 2018.			

(iii) **Books Published as Single Author / Editor**

Sl. No.	Title with page nos.	Book Title, editor(s) & publisher	ISSN/ISBN NO.	Whether peer reviewed	No. of co-authors	Whether you are the main author
1.	Short Course on Handloom Weaving and Woven Design of Jute and Jute Diversified Products 1 <sup>st</sup> Edition July 1994	Book on Training for Jute workers	Institute of Jute Technology, Kolkata	N/A	1	Yes
2.	Jute Processing for Workers of jute mills: Volume – B (Part – B1 to B4): Factory side (jute winding to jute sack sewing & finishing) 1 <sup>st</sup> Edition August 2002	Book on Training for Jute workers	Institute of Jute Technology, Kolkata	N/A	1	Yes



3.	Technical Handbook on Jute Processing Part-2 (Factory Side) 1 <sup>st</sup> Edition August 2002	Book on Training for Jute Mill Supervisors	ISBN 978-81-935071-3-1	N/A	1	Yes
4.	Book on Weaving Line Sardars' of Jute mills (Bengali & English & Hindi). Part – D1 1 <sup>st</sup> Edition -March 2003, August 2003, October 2003	Book on Training for Weaving Line Sardars of Jute Mills	ISBN 978-81-935071-4-8  ISBN 978-81-935071-7-9 (for Bengali Version)	N/A	sole	Yes
5.	Book of Lecture Note on Testing and Inspection 2004	Book on training for the staff of the Jute Commissioner Office		N/A	1	Yes
6.	Training Manual on Maintenance for Factory Side Machinery of Jute Mills (jute winding to jute sack sewing & finishing) Part C2 (in English) 1 <sup>st</sup> Edition April 2006.	Book on Training for Jute workers	ISBN 978-81-935071-1-7	N/A	1	Yes
7.	Training Manual on Awareness and Jute Product Manufacturing Processes December 1997	Manual for the four Modules of Training Programme for the staff of the Office of Jute Commissioner	Institute of Jute Technology, Kolkata	N/A	1	Yes
8.	Technical Handbook on “Engineering Suitable Overlay Fabric to serve as a Cheaper Substitute of Bitumen Mastic” May-2013	Practical Guide book published from JTM R&D Project No.14, sponsored by NJB	ISBN 978-81-935071-6-2	N/A	sole	Yes
9.	Editor- “Jute Selection and Batching to Spinning (Mill Side)”- Bengali and Hindi versions. 2 <sup>nd</sup> Edition 2012	Technical Handbook for Jute Mill Supervisors, workers and new entrants.	Dept. of Jute and Fibre Technology, University of Calcutta	N/A	1	Yes
10.	Editor- “Jute Mill Machinery Protection (Mill Side)”- Bengali and Hindi Versions. 2 <sup>nd</sup> Edition 2012	Do	Do	N/A	1	Yes
11.	Editor- “Jute Mill Machinery Protection (Factory Side)”- Bengali and Hindi versions 2 <sup>nd</sup> Edition 2012	Do	Do	N/A	1	Yes
12.	Editor- “Jute Winding to Sack Sewing and Finishing (Factory Side)”- Bengali and Hindi versions, 2 <sup>nd</sup> Edition 2013	Do	Do	N/A	1	Yes
13.	Author- “Jute Winding”, 2 <sup>nd</sup> Edition 2013	Do	Do	N/A	1	Yes
14.	Author- “Jute Beaming and Sizing”, 2013	Do	Do	N/A	2	Yes



15.	Author- “Conventional Jute Weaving”, 2 <sup>nd</sup> Edition 2013	Do	Do	N/A	2	Yes
16.	Author- “Shuttle less Jute Weaving”, 2 <sup>nd</sup> Edition 2013	Do	Do	N/A	1	Yes
17.	Author- “Jute Sack Sewing and Finishing”, 2 <sup>nd</sup> Edition 2013	Do	Do	N/A	sole	Yes
18.	Author- “Jute Mill Machinery Protection”,	Do	Do	N/A	1	Yes
19.	Editor-Technical Handbook on Jute Processing Part-1(Mill Side) 2 <sup>nd</sup> Edition 2013	Book on Training for Jute Mill Supervisors	Institute of Jute Technology, Kolkata	N/A	1	Yes
20.	Author & Editor-Technical Handbook on Jute Processing Part-2 (Factory Side) 2 <sup>nd</sup> Edition Oct- 2013	Book on Training for Jute Mill Supervisors	Institute of Jute Technology, Kolkata	N/A	1	Yes
21.	Training Manual on Maintenance for Mill Side Machinery of Jute Mills (Jute Batching to jute Spinning) Part-C1 (in English)	Book on Training for Jute workers	Institute of Jute Technology, Kolkata	N/A	1	Yes
22.	Training Manual on Maintenance for Factory Side Machinery of Jute Mills (Jute Winding to Jute Sack Sewing & Finishing) Part-C2 (in English)	Book on Training for Jute workers	Institute of Jute Technology, Kolkata	N/A	1	Yes
23.	Author- “Jute Product Manufacturing Training”, 2 <sup>nd</sup> Edition 2012	Training Manual for Jute Diversified Sector (Supervisors, Artisans and New Entrants)	Do	N/A	1	Yes
24.	Author- “Jute Weaving and Design” 2 <sup>nd</sup> Edition 2012 “ Hasthachalito Jute Weaving oh Tar Naksha” JDP1-Bengali Version	Training Manual for Jute Diversified Sector (Supervisors, Artisans and New Entrants)	ISBN 978-81-935071-8-6	N/A	1	Yes
25.	Author- “Jute Stitching and bag manufacturing” 2012	Technical Handbook for the trainers, learners in bag and soft luggage manufacturing technology	Do	N/A	2	Yes
26.	Author-“Continuing Awareness Programme on Jute Geotextiles for practicing Civil Engineers of Government of West Bengal and other state Governments”2012	Handbook cum Course Material for the Civil Engineers of different states of India.	National Jute Board, Ministry of Textiles, Govt. of India	N/A	1	Yes





27.	Author – “A Technical Handbook on Bituminized Jute Paving Fabric (BJPF)-A partial Substitute and Reinforcement of Bitumen Mastic”	Handbook on Jute Geotextile	Woodhead Publishing India Pvt. Ltd.	ISBN 978-9-38505919-3 e-ISBN 978-9-38505-965-0	Sole	Yes
28.	Co-Author- “Cellulose based nanocomposite for transdermal drug delivery system”.	LAMBART Academic Publishing, Germany, 2018.	Academic Publishing, Germany		2	No
29.	Co-Author-“Nano-Fiber Reinforced Biocomposites, Chapter 13, Part 2: Mechanical, Thermal, Electrical And Magnetic properties.”	Elsevier	Elsevier Publishing Company, NY, USA, 2018		2	No

**C) Ongoing and Completed Research Projects and Consultancies**

**(i & ii) Ongoing Projects / Consultancies**

1.	R&D Project of DJFT, CU under Component-I (Textile), Ministry of Textiles, Govt. of India, entitled “Design and development of Jute-Cotton Blend Based Nonwoven Fabrics for potential uses as Surgical Disposable (SD), Medical Packaging (MP) and Medical Disposable Baggage (MDB) materials” monitored through the O/o the Textile Commissioner, MoT, GoI, Mumbai.	Do	PI (2016- continuing)	Rs. 96.67 Lakh  Rs. 27.0676 lakh (released as first instalment)
2.	R&D Project of DJFT, CU under Component-I (Textile), Ministry of Textiles, Govt. of India, entitled “Design and engineering of industrial wipes for potential applications in fluid absorption” monitored through the O/o the Textile Commissioner, MoT, GoI, Mumbai.	Do	PI (2018- continuing)	Rs. 66.20 Lakh  Rs. 18.536 lakh (released as first instalment)

**(iii & iv) Completed Projects / Consultancies**

Sl. No.	Title	Agency	Role as PI/co-PI and Period	Grant / Amount Mobilized (Rs. Lakh)
1.	Studies on Nonwoven Jute Geotextile to be used for Asphalt Overlays on Unpaved and Paved Roads	All India Council for Technical Education. (AICTE)	Co-PI , 3 years (2003-06)	Rs.15.50 lakhs
2.	JTM R&D Project No.14 Engineering Suitable Overlay Fabrics to Serve as Cheaper Substitute of Bitumen Mastic.	Under National Programme of Jute Technology Mission, through JMDC, MOT, Govt. of India	PI, 4 years (2008-12)	Rs.65.00 lakhs





3.	INTEGRATED SKILL DEVELOPMENT SCHEME (ISDS) –DPR-I –Pilot Phase , HRD Project for New Entrant Workers and Junior Supervisor Training for Jute Sector Sponsored by Ministry of Textiles, GOI, at DJFT, IJT, CU as a Nodal Implementing Agency.	Funded by the Ministry of Textiles, Govt. of India	Jt. PI, August 2011- July-2014 (3 years completed)	Rs.2600 Lakhs, 26,600 persons are to be trained for skill up gradation in Jute sector.
4.	Consultancy Assignment Overall Improvement of Productivity and Quality in the Weaving Shed of M/s. Gloster Limited, Howrah, West Bengal.	Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta	PI ,1 year (2012- 13)	Rs.5.40 Lakhs
5.	CFC/IJSG/21 Project, Development and Application of Potentially Important Jute Geotextiles	Under Common Fund for Commodities (CFC), Netherlands implemented by Jute Manufactures Development Council JMDC	PI, 5 years (2010 -14)	Rs. 14.40 lakhs
6.	NABL Project, NABL accreditation of Geotextile Laboratory, Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta	Sponsored by NJB (formerly JMDC), MoT, GoI	PI, 7 years ( July 2012-March 2019)	Rs.3.70 Lakhs
7.	ISDS Project- Main Phase-DPR (II), Skill Upgradation Training of New Entrant Workers and Junior Supervisors of Jute Sector.	Sponsored by Ministry. of Textiles, Govt. of India), DJFT,IJT,CU as a Nodal Implementing Agency	Jt. PI, 3 years (August 2014- March 2017)	Rs.4650 Lakhs
8.	Continuing Awareness Programme on Jute Geotextiles for practising Civil Engineers of Government of West Bengal and other State Governments	Sponsored by NJB (formerly JMDC) MoT, GoI	PI, 1 year (2014-15)	Rs. 8.880 Lakhs
9.	“Industry oriented courses and related activities” including PGDJTM and other Short Term JLS courses” for sustainable human resource development for Jute industry from 2012-13 to 2016-17.	Sponsored by National Jute Board, Ministry. of Textiles, Govt. of India	Jt. PI, Initially for 5 yrs. ( 2012-13 to 2016-17)	Rs 6.84 cores in five years including 201112
10.	DCH HRD Project for 2015-16 for Short and Long Term Training on Jute Diversified Products and Handicrafts Through Established HRD Institution.	DCH of Ministry of Textiles, Govt. of India.	Jt. PI total 5 Yrs. (2015-16 to 2019-20 )	Rs 193lakhs ( released Rs 33.50 lakhs so far)
11.	Survey of Artisan and other persons for Their Working conditions and Livelihood and their need identification etc. as DCH R & D Project for 2015 on Jute Diversified Products in Murshidabad Region.	Under DCH of Ministry of Textiles, Govt. of India.	Jt. PI, 1year (2015-16)	Rs 15 lakhs ( released Rs 7.50 lakhs so far)
12.	DCH Handicraft Training Project for 201617 on Jute Diversified Products in Murshidabad Region.	Under DCH of Ministry of Textiles, Govt. of India.	Jt. PI, 1year (2015-16)	Rs 5.42 lakhs (Rs 2.71 lakhs is released so far)



13.	R&D Project of DJFT, CU under Component-II (Jute), Ministry of Textiles, Govt. of India, entitled "Design And Engineering of Jute and Jute Blended Combined Fabrics and its Suitable after Treatment to Develop Geomembrane and Tar Felt for Potential Use in Civil Engineering Constructions" monitored through the O/o the Jute Commissioner, MoT, GoI, Kolkata.	Ministry of Textiles, Govt. of India under Scheme for Research and Development of Textiles Industry including Jute vide advertisement F. No. 10/1/2013-A & MMT, dated 20.08.2015.	PI, 2 years (2016-18)	Rs. 73.82 lakh Rs. 18.09 lakh (released as first instalment)
14.	R&D Project of DJFT, CU under Component-II (Jute), Ministry of Textiles, Govt. of India, entitled "Development of Innovative Low gsm Jute Blended Scrimmed Nonwoven Fabric as a Substitute of Polypropylene Spun bond and Plastic Bags" monitored through the O/o the Jute Commissioner, MoT, GoI, Kolkata.	Do	PI, 2 years (2016-18)	Rs. 144.97012 Lakh Rs. 40.5916 lakh (released as first instalment)
15.	R&D Project of DJFT, CU under Component-II (Jute), Ministry of Textiles, Govt. of India, entitled "Development of Jute and Jute Blended Nonwovens for Use in Thermal and Acoustic Insulation Applications" monitored through the O/o the Jute Commissioner, MoT, GoI, Kolkata.	Do	PI, 2 years (2016-18)	Rs. 116.32 Lakh  Rs. 28.4984 lakh (released as first instalment)
16.	R&D Project of DJFT, CU under Component-II (Jute), Ministry of Textiles, Govt. of India, entitled "Designing, Engineering and Application of Jute Based Agrotextiles: A Bio-engineering measure for Soil and Water Conservation and Fertility enhancement of the barren (Tanr) and Baid lands of Purulia, West Bengal, India" monitored through the O/o the Jute Commissioner, MoT, GoI, Kolkata.	Do	PI, 2 years (2016-18)	Rs. 162.38 Lakh  Rs. 45.468 lakh (released as first instalment)

(D) Research Guidance

	Enrolled (no.)	Thesis Status/ Submitted	Degree Awarded
M. Phil. or equivalent	N/A		
Ph.D. or equivalent	<p>Shri Kalyan Ray Gupta- " Studies on the Effects of Fabric Parameters on Jute Fabric Reinforced Composites" Reg. No. 4722 Ph.D. (Tech.) Proceed/12</p> <p>Shri Rajib Bhattacharyya- "Development of Potentially Important Jute Paving Fabric for Geotechnical Application" Reg. No. 4724 Ph.D. (Tech.) Proceed/12, dated 28.09.2012</p> <p>Shri Jonathan Tersur Orasugh – "Extraction Of Nano Crystalline Cellulose Fibres From Jute And The Development Of Potentially Important Nanocomposites For Technical Applications" Reg. No. 8221/Ph.D.(Tech.)Proceed/2016/FS, dated 08.12.2016</p>	Thesis submitted	-  Degree awarded in 20.11.2018



(E) (i) **Training Courses, Teaching-Learning-Evaluation Technology Programmes, Faculty Development Programmes, Refresher Courses, Orientation Programmes (not less than one week duration)**

Sl. No.	Programme	Duration	Organized by	Dates	Role (Organized/Participated/Delivered Lectures)
1.	Development of Commercial Weaving Design	7 days	Weaver's Service Centre and N.H.D.C., Panipath	1991	Participated in the training course.
2.	Export and Import Policy of Handloom Products and Improve the Quality of Handloom Products	7 days	A.C.A.S.H., Ministry of Textiles, Govt. of India	1992	Participated in the training course.
3.	Labour Training for Centralized Jute and Cotton Industries.	10 days	South India Textile Research Association (SITRA), Coimbatore, Tamil Nadu	1994	Participated in the training course.
4.	Special Training Course on Modern Developments in the Field of Textile Technology, Processing Techniques of Fibres-Yarn Fabric Manufacture and Clothing Technology HRD- Training-Design-Delivery- Examination and Presentation Management Training	25 days	Department of Textile Industries University of Leeds, West Yorkshire, England.	18/11/1996 to 13/12/1996	Participated in the training course.
5.	Summer School on "Processing, value addition and waste utilization technologies for Jute and other allied fibres"	21 days	National Institute of Research on Jute and Allied Fibre Technology (NIRJAFT)-ICAR 12, Regent Park, Kolkata-700040, West Bengal, India	26/06/2012 to 16/07/2012	Participated in the training course.
6.	Attended M/S. Dilo Systems GmbH, Eberbach, Germany for undergoing training in their Nonwoven Machinery Manufacturing Plant.	10 days	Department of Jute and Fibre Technology, University of Calcutta	2013	Participated in the training course.
7.	Trainers Training Courses on JDP Manufacture , 4 modules, one week duration for each of the 4 modules) under ISDS HRD Project sponsored by MoT, GoI	4 weeks	Department of Jute and Fibre Technology, University of Calcutta		Organized and delivered lectures and imparted training in all the modules alongwith other faculty and guest lecturer/outside expert etc.



8.	UGC- NET Coaching Programme in Home Science (Textile and Clothing)	4 weeks	University of Calcutta	December 2013	Delivered Lectures on fabric manufacture, handlooms, Clothing Science
9.	Continuing Awareness Programme on Jute Geotextiles for practicing Civil Engineers of Government of West Bengal and other state governments	1 year	Department of Jute and Fibre Technology, University of Calcutta and National Jute Board, MoT, GoI.	2014-15	Organized seminars and conventions on potentiality and application of Jute Geotextile in the field of Civil Engineering Constructions.

(E) (ii) **Conferences, Seminars, Workshops, Symposia, etc.**

01.	International Conference on Yarn and Fibre Science.	Under U.N.D.P. – G.O.I. Sponsored Project on Jute Developments.	The Britannia Country House Hotel, Manchester, UK, on 3-4 <sup>th</sup> December, 1996.	Two Days
02.	National Convention of Textile Engineers on Indian Textile Panorama.	Institute of Jute Technology	The Institution of Engineers, Kolkata, 2 <sup>nd</sup> and 3 <sup>rd</sup> Jan.1998.	Two days
03.	IJIRA Technological Conference, Kolkata	IJIRA, Kolkata	Kolkata, 18 <sup>th</sup> April 1998.	One Day
04.	National Seminar on Precepts and Prospects of Wool Technology at College of Textile Technology, Serampore, Hooghly, West Bengal.	College of Textile Technology, Serampore, Hooghly, West Bengal.	Serampore, Hooghly, West Bengal, 24 <sup>th</sup> Jan. 1999.	One Day
05.	Information Technology for Jute and Textile Sectors in the New Millennium.	Institute of Jute Technology	Kolkata, 28 <sup>th</sup> July 1999	One Day
06.	IJIRA Technological Conference, Kolkata	IJIRA, Kolkata	Kolkata, 21 <sup>st</sup> Feb. 2001	One Day
07.	IJIRA Technological Conference, Kolkata	IJIRA, Kolkata	Kolkata, 4 <sup>th</sup> , 5 <sup>th</sup> Jan. 2002	Two Days
08.	Awareness Course on Application of Jute Geotextile.	IJIRA, Kolkata	IJIRA, Kolkata, 20 <sup>th</sup> and 21 <sup>st</sup> Jan, 2002.	Two Days
09.	Revamping the textile sector in West Bengal in context of globalization	The Textile Association (I), W.B.	Kolkata 11-05-2002	One Day
10.	International Jute Symposium Organized by JMDC, MOT, GOI.	JMDC, MOT, GOI., Kolkata	Hotel Taj Bengal, Kolkata, 22 <sup>nd</sup> , 23 <sup>rd</sup> , 24 <sup>th</sup> Feb. 2003	Three Days
11.	Current challenges in textile processing	J. D. Birla College of Home Science, Kolkata	Kolkata 08-02-2003	One Day
12.	25 <sup>th</sup> IJIRA Technological Conference	I.J.I.R.A, Kolkata	Kolkata 10-02-2003	One Day
13.	Technical Seminar of National Symposium on Jute Geo-	JMDC, Ministry of Textiles, Govt.	Hotel Ashok, on 21 <sup>st</sup> and 22 <sup>nd</sup> September,	Two Days



	Textiles and Innovative Jute Products.	of India., Kolkata	New Delhi, 2003.	
14.	International Workshop on Productivity Improvement of Jute Industry, Organized by International Jute Study Group, Dhaka, Bangladesh.	International Jute Study Group, Dhaka, Bangladesh.	Dhaka, Bangladesh, held on 6-7 <sup>th</sup> December, at IJSG-Auditorium, Dhaka, 2003.	Two Days
15.	International Symposium on Emerging Strategies for Improving Productivity.	Institute of Jute Technology	Kolkata, 12 <sup>th</sup> , 13 <sup>th</sup> , 14 <sup>th</sup> Dec. 2003	Three Days
16.	Technical Workshop on Popularization & Development of Jute and Mesta Products.	JMDC, Ministry of Textiles, Govt. of India.	Hotel The Manohar, Hyderabad on 19 <sup>th</sup> - 20 <sup>th</sup> December, Andhra Pradesh, 03.	Two Days
17.	NIRJAFT's Seminar on Emerging Jute Products.	NIRJAFT, Kolkata	Jadavpur University, Jadavpur on 17 <sup>th</sup> April, 2004.	One Day
18.	Annual Seminar of the College of Textile Technology, Serampore	College of Textile Technology, Serampore	Serampore 23-01-2004	One day
19.	A Seminar cum Workshop on Geosynthetics India.	Indian Geotechnical Society (Delhi Chapter) in association with IIT, New Delhi along with International Geosynthetics Society (India Chapter) and The Textile Association (Delhi Chapter).	Departments of Civil Engineering and Textile Technology at IIT, and Surya Mahal, Radission Hotel, on 27-30 <sup>th</sup> October, New Delhi, 2004.	Four Days
20.	Seminar on Formulation of Comprehensive Jute Policy.	Jute Manufactures Development Council, Ministry of Textiles, Govt. of India.	Kolkata, from 19-20 <sup>th</sup> November, 2004.	Two Days
21.	National Seminar on Jute Geotextiles.	NIRJAFT, Kolkata.	Institution of Engineers, Kolkata, 26-27 <sup>th</sup> November at R.N.Mookerjee Hall of IE (I), WBSC, Kolkata. 2004.	Two Days
22.	5 <sup>th</sup> All India People's Technology Congress.	IE(I), Kolkata and FOSET	Science City Auditorium, Kolkata, on 19-20 <sup>th</sup> Feb, 2005.	Two Days
23.	18 <sup>th</sup> National Convention of Textile Engineers and National Seminar on Innovative and Diversified Jute Products.	IE(I), Kolkata	Institution of Engineers, Kolkata, on 16-19 <sup>th</sup> March, 2005.	Four Days
24.	National Seminar on "NONWOVENS- Technology, Products &Market Potential"	Department of Textile Technology, IIT, New Delhi.	Seminar Hall, Indian Institute of Technology, Hauz Khas, New delhi-110016, organized by Department of Textile Technology at IIT on 14-15 <sup>th</sup> October, New Delhi, 2005.	Two Days
25.	Seminar cum Workshop on "Application of Geo-synthetics in Infrastructure Development and Maintenance"	Jointly organized by Jadavpur University along with Indian	Institute of Chemical Engineers Auditorium, Jadavpur University Campus, Kolkata-700032	One Day



		Geotechnical Society	Jointly organized by Jadavpur University along with Indian Geotechnical Society on 26 <sup>th</sup> November, 2005	
26.	20 <sup>th</sup> Indian Engineering Congress, Kolkata	Jointly organized by IE(I), India and supported by Govt. of W.B.	Organized at Kolkata on 15 – 18 <sup>th</sup> December, 2005, jointly organized by IE(I), India and supported by Govt. of W.B.	Four Days
27.	Workshop and Awareness Programme on Technical Textiles	Institute of Jute Technology	Organized at Kennedy Hall ,IIT, Kolkata on 7 <sup>th</sup> Feb, 2006	One Day
28.	Technological Conference of The Textile Association (India) on “Emerging Scenario in Textile Sector”	The Textile Association (India)	Organized at Kennedy Hall ,IIT, Kolkata on 19 <sup>th</sup> Feb, 2006	One Day
29.	13 <sup>th</sup> West Bengal State Science and Technology Congress at Calcutta University, Kolkata.	West Bengal State Science and Technology Congress	Organized at Ballygunge Science College, Calcutta University, 35, B.C.Road, Kolkata	Two Days
30.	All India Seminar of Textile Engg. Division of Institution of Engineers at Kolkata,	IE(I), Kolkata	Institution of Engineers, on 29-30 <sup>th</sup> March, 2006, Kolkata, WB	Two Days
31.	International Symposium on “Jute and Allied Fibre Production, Utilization and Marketing”.	CRIJAF and NIRJAFT (ICAR)	Jointly organized by Indian Fibre Society, CRIJAF and NIRJAFT(ICAR) ,held at Bhasa Bhavan , National Library, Kolkata on 9 <sup>th</sup> to 12 <sup>th</sup> January, 2008	Four Days
32.	Technological Conference on Multidisciplinary Approach in Textiles in the 56 <sup>th</sup> Anniversary of The Textile Association (India),	The Textile Association (India)	Organized by The Textile Association (India), W B Unit , held at Kennedy Hall, IIT, on 18 <sup>th</sup> Feb, 2007	One Day
33.	All India Seminar on Technical Textiles in Civil Engineering,	IE(I), Kolkata	Organized by W. B. State Centre of The Institution of Engineers (India) on 13–14 <sup>th</sup> September, Kolkata, 2007	Two Days
34.	International Seminar cum Workshop on “Jute Geotextiles- Technical Potential & Commercial Prospects”	IJSG, Dhaka, Bangladesh and JMDC, Kolkata, India	Organized by IJSG, Dhaka, Bangladesh in collaboration with JMDC, Kolkata, India at Kolkata on 5 <sup>th</sup> and 6 <sup>th</sup> April, 2008	Two Days
35.	All India Seminar on “Challenges in Technology and Market Development in Jute and Other Natural Fibre Industry	IE(I), Kolkata	Organized by W. B. State Centre of The Institution of Engineers (India) on 13–14 <sup>th</sup> November, Kolkata, 2009	Two Days
36.	National Seminar on “Geotechniques for Construction, Design and Performance of Structures”	Indian Geotechnical Society, Kolkata Chapter	Organized by IGS, Kolkata Chapter, on Sep 9-10, 2011 at M.N. Saha Auditorium, CGCRI, Kolkata	Two Days
37.	26 <sup>th</sup> Indian Engineering Congress on “Towards Prosperous India: Challenges for Engineers”	The Institution of Engineers(India), Karnataka	Organized and hosted by Karnataka State Centre, IE(I), on Dec 15-18, 2011, Bangalore	Three Days
38.	All India Seminar on “Innovation and Emerging Trends of Jute, Textile and Garment Products”	The Institution of Engineers(India), Kolkata	Organized by West Bengal State Centre , IE(I), on Feb 17-18, 2012, Kolkata	Two Days
39.	JTM All projects Seminar under JTM-MM-IV /Scheme-7.1	Under the sponsorship of NJB, MoT, GoI	Organized by DJFT, IJT, CU on June 27, 2012, Kolkata	One Day
40.	Centenary Session on 100 <sup>th</sup> Indian Science Congress-	University of Calcutta with the	Jointly organized by University of Calcutta and the	Two Days





	Engineering Sciences and Material Sciences Divisions	Indian Science Congress Association	Indian Science Congress Association on Jan3-7,2013, Kolkata	
41.	26 <sup>th</sup> National Convention on “Futuristic Fibres”	The Institution of Engineers(India), Bhopal	Organized by Madhya Pradesh State Centre , IE(I), on Feb 2-3, 2013, Bhopal	Two Days
42.	Indian Technology Congress on “Towards making India a Hub of Knowledge and Innovation”	The Indian Technology Congress supported by NSIC, Ministry of Micro small and Medium Enterprises	Organized by ITC, Karnataka, on July24-25, 2013, Bangalore	Two Days
43.	International Conference on “Environment and Its Impact on Society”	J D Birla Institute, Jadavpur University	Organized by J D Birla Institute, on Aug 18-20, 2013, Kolkata	Two Days
44.	National Seminar on “Development and Application of Potentially Important Jute Geotextiles (CFC/IJSG/21)”	Topaz Hall, Hotel Hindusthan International, Kolkata	Organized by National Jute Board, MoT, GoI on Sep 19, 2013	One Day
45.	One Day Seminar-cum-buyer seller meet on “ Jute based Green Textile Products and its Environmental Impact”	The Institution of Engineers(India), Kolkata	Organized by West Bengal State Centre , IE(I), on Sep 28, 2013, Kolkata	One Day
46.	3 <sup>rd</sup> International Science Congress on “Innovation with Global Responsibility”	ISCA	Organized by International Science Congress Association, on 08, 09.12.2013, Coimbatore, India	Two Days
47.	28 <sup>th</sup> Indian Engineering Congress on “ Engineering Advancements and Accelerated Nation Building”	The Institution of Engineers(India), Tamil Nadu	Organized by Indian Engineering Congress, Tamil Nadu State Centre, 20-22.12.2013	Three Days
48.	Development and Application of Potentially Important Jute Geo-textiles (CFC/IJSG/21) Project, Bangladesh Part.	Jute Diversification Promotion Centre (JDPC), Bangladesh and National Jute Board, Ministry of Textiles, Govt. of India	Organized by Jute Diversification Promotion Centre (JDPC), Bangladesh 01.04.2014	One Day
49.	63 <sup>rd</sup> Anniversary Day celebration and One day Technological Conference on “Recent Developments in Textiles”	Kennedy Hall, Deptt. of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta, Kolkata	Organized by The Textile Association of India (West Bengal Unit) on 29.03. 2014, Kolkata	One Day
50.	International Conference on “Emerging Trends in Traditional and Technical Textiles”	NIT Jalandhar, India	Organized by ICETT Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology, India on 11-12.04.2014	Two Days
51.	Continuing Awareness Programme on “Jute Geotextiles for practicing Civil Engineers of Govt. of West Bengal and other state governments”	Department of Jute and Fibre Technology, University of Calcutta	Organized by Department of Jute and Fibre Technology, University of Calcutta in collaboration with National Jute Board, MoT, GoI on 24-25.04.2014, Kolkata	Two Days





52.	Indo-Czech International Conference on “Advancements in Speciality Textiles and their applications in Material Engineering and Medical Sciences”	Kumaraguru College of Technology, Coimbatore, India	Organized by Kumaraguru College of Technology, Coimbatore, India in collaboration with Faculty of Textile Engineering, Technical University of Liberec, Czech Republic on 29- 30.04 2014, Coimbatore, Tamil Nadu	Two Days
53.	International Conference on Natural Fibres “Jute and Allied Fibres”	Basha Bhawan, National Library, Kolkata	Organized by National Institute of Research on Jute & Allied Fibre Technology, ICAR on 1- 3.08.2014, 2014, Kolkata	Three Days
54.	2nd International Conference on “Industrial Textiles-Products, Applications and Prospects”	PSG College of Technology, Coimbatore	Organized by Department of Textile Technology & Department of Automobile Engineering PSG College of Technology, Coimbatore In Collaboration with Office of The Textile Commissioner, MOT, GOI in association with HOP University of Applied Sciences, Germany & Institute of Frontier Materials (IFM), Deakin University, Australia on 22-23.08.2014	Two Days
55.	Awareness Workshop on “Use of Jute Geo-textile”	The Lalit Great Eastern Kolkata	Organized by National Jute Board, MOT, GOI on 30.08.2014	One Day
56.	Workshop on “Opportunities For Industrial Fabric Producers: Innovation in Weaving Technologies”	Indian Institute of Technology, New Delhi	Organized by Department of Textile Technology Indian Institute of Technology Delhi on November 06.11.2014	One Day
57.	National Convention on Jute - Jute for Now – Jute for the Future: SAY YES TO JUTE : NATURALLY JUTE”	The Lalit Great Eastern Kolkata	Organized by National Jute Board, MOT, GOI On 23-24.12.2014	Two Days
58.	102 <sup>nd</sup> Indian Science Congress on “Science and Technology for Human Development”	University of Mumbai	Organized jointly by ISCA and University of Mumbai Jan 03-07.01.2015, Mumbai	Five Days
59.	One Day National Seminar on “Application of Emerging Technology of Jute Geotextile in Civil Engineering”	Department of Jute and Fibre Technology, University of Calcutta	Organized jointly by DJFT, IJT, CU and FOSET on 09.01.2015	One Day
60.	One day HRD Seminar on BIS Standards for Jute and Textiles and HRD Need For Jute Industry	Department of Jute and Fibre Technology, University of Calcutta	Organized jointly by DJFT, IJT, CU and BIS, New Delhi on 17.02.2015	One Day



61.	28 <sup>th</sup> National Convention of Textile Engineers' and National Seminar on "Technological Innovations, Design and Sustainable Product Development in Handloom and Textile Industry"	Agartala, Tripura	Organized by The Institution of Engineers (India), Tripura State Centre and Directorate of Handloom, Handicrafts and Sericulture, Govt. of Tripura, India on 07-08.03.2015	Two Days
62.	One day National Seminar on "Sensitization on Application of Jute Geotextile in Civil Engineering Constructions"	Pragya Bhawan, Agartala, Tripura	Organized jointly by FOSET, in association with The Institution of Engineers (India), Tripura State Centre and Indian Building Congress, Tripura Chapter on 28.04.2015	One Day
63.	One day National Seminar on "Awareness Workshop on Jute Geotextile"	Hotel Stadel, Kolkata	Organized jointly by West Bengal State Rural Development Agency (WBSRDA) In association with National Rural Road Development Agency (NRRDA), Ministry of Rural Development National Jute Board, Ministry of Textiles, Govt. of India on 17.07.2015	One Day
64.	One day Seminar on "Standardization in Technical Textiles - Gateway to 'Make in India'"	Bureau of Indian Standards Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi-110 002	Organized by Bureau of Indian Standards (BIS) on 20.07.2015	One Day
65.	One day HRD Seminar on "HRD – Workshop for Jute Industry"	Kennedy Hall, Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta, Kolkata	Organized by Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta on 28.07.2015	One Day
66.	Workshop cum Training Programme on "Promotion of Agrotexiles under the scheme for promoting usage of agrotexile in North Eastern Region of India"	Kennedy Hall, Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta, Kolkata	Organized by Synthetic & Art Silk Mills' Research Association (SASMIRA) In association with Department of Jute and Fibre Technology Institute of Jute Technology University of Calcutta on 13-14.08.2015	Two Days
67.	Workshop on "Occupational mapping and functional analysis of all categories of workforce employed in the jute industry"	Kennedy Hall, Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta, Kolkata	Jointly Organized by Department of Jute and Fibre Technology Institute of Jute Technology University of Calcutta and Textile Sector Skill Council on 24.11.2015	One Day



68.	Workshop on “Occupational mapping and functional analysis of all categories of workforce employed in the jute industry”	Hotel Athidhi International, Eluru, Andhra Pradesh	Jointly Organized by Department of Jute and Fibre Technology, Institute of Jute Technology University of Calcutta, and East India Commercial Company Ltd. (A. P.) And Textile Sector Skill Council on 11.12.2015	One Day
69.	26 <sup>th</sup> National Convention on “Contemporary Approaches of Make In India Concepts in Textiles and Apparel Industries”	The Institution of Engineers (India), Karnataka State Centre	Organized by The Institution of Engineers (India), Karnataka State Centre, Bangalore on 26.02.2016 and 27.02.2016	Two Days
70.	Optimization of Property Parameters of Woven Geotextiles for potential applications in the field of Geotechnical Constructions. June 2016	International Seminar on Jute Geotextiles under the Project “Development and Application of Potentially Important Jute Geotextiles (CFC/IJSG/21)”, Kolkata.	Organized by National Jute Board, MoT, GoI, in collaboration with and JDPC, Dhaka, Bangladesh and Common Fund for Commodities (CFC), Amsterdam, The Netherlands on June 22-23, 2016, Kolkata	Two Days
71.	Potential Applications of Open Weave Jute Geotextile (Soil Saver) in abating Geotechnical Problems. January 2017	International Conference on “Textile and Clothing: Present and Future Trends”.	Organized by Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta on 3-5th January, 2017 at Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, JD-2, Sector-III, Salt Lake, Kolkata-700098, West Bengal, India.	Two Days
72.	Intervention of Frontier Technologies in Textile and Jute Sector. March 2017	30 <sup>th</sup> National Convention of Textile Engineers and National Seminar	Organized by Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta in collaboration with WBSC, IE(I) and National Jute Board, Ministry of Textiles, Govt. of India on 03-05 March, 2017.	Two Days
73.	Potential Applications of Open Weave Jute Geotextile (Soil Saver) in Meeting Geotechnical Difficulties. June 2017	3 <sup>rd</sup> International Conference on Natural Fibers: Advanced Materials for a Greener World, ICNF 2017, 21-23 June 2017, Braga, Portugal	Organized by School of Engineering, University of Minho, Portugal, 21-23 June 2017.	Three Days
74.	Open Weave Jute Geotextile (Soil Saver) in Geotechnical Constructions. March 2018	TEXCON -2018 National Seminar.	Organized by Sri Vaishnav Vidyapith, Indore, SVVIT, Indore, 9th -10th March, 2018.	Two Days



(E) (iii) **Invited Lectures and Chairpersonship(s) at national / international conferences/seminars /workshops / symposia**

Sl. No.	Date(s)	Title of Lecture/Academic Session	Title of Conference/ Seminar/Workshop / Symposium	Organized by	Whether international/national
1.	17.02.2012	<b>Chaired Technical Session on</b> Technical Session-II (17.02.2012) Natural Fibre Based Technical Textiles	Innovation and Emerging Trends of Jute, Textile and Garment Products.	Organized by West Bengal State Centre, IE (I).	National
2.	18.02.2012	<b>Chaired Technical Session on</b> Technical Session-V (18.02.2012) Development in Chemical Processing for Eco friendly Jute and Textile Products	Innovation and Emerging Trends of Jute, Textile and Garment Products.	Organized by West Bengal State Centre, IE (I).	National
1.	07.01.2013	<b>Delivered Invited Lecture on</b> Natural Fibres and Jute Geotextiles. 2013, pp 56-57	Centenary Session on 100 <sup>th</sup> Indian Science Congress-2013, Kolkata.	Jointly organized by University of Calcutta and the Indian Science Congress Association.	National
2.	03.02.2013	<b>Delivered Invited Lecture on</b> Design and Development of Woven Jute Geotextiles for Potential Applications in the Field of Geotechnical Constructions. 2013, pp 96-110	26 <sup>th</sup> National Convention on “Futuristic Fibres”, Bhopal.	Organized by Madhya Pradesh State Centre, IE (I).	National
3.	18.08.2013	<b>Delivered Invited Lecture on</b> Studies on Jute Geotextile and its Geo-technical Applications with respect to Eco-Concern. 2013, pp 177-182	International Conference on “Environment and Its Impact on Society”, Kolkata.	Organized by J D Birla Institute, Kolkata.	International
4.	28.09.2013	<b>Chaired Technical Session on</b> <b>Delivered Invited Lecture on</b> Jute Geotextile- A potential step to reduce Carbon Footprint in Civil Engineering Construction. 2013, pp 7	One Day Seminar-cum-buyer seller meet on “Jute based Green Textile Products and its Environmental Impact”, Kolkata.	Organized by West Bengal State Centre, IE (I).	National
5.	17.04.2014	<b>Delivered Invited Lecture on</b> Development and Application of Potentially Important Jute Geotextiles.	International Seminar on CFC/IJSG/21 Project.	Organized by International Jute Study Group (IJSG) and Jute Diversification Promotion Centre (JDPC)	International



				Dhaka, Bangladesh.	
6.	24.04.2014	<b>Delivered Invited Lecture on Study on Jute Geotextile, its comparison with Synthetic Geotextile, Testing Methodology of the Property Parameters of Jute Geotextile</b>	Continuing Awareness Programme on Jute Geotextiles for practicing Civil Engineers of Govt. of West Bengal and other state governments.	Organized by Department of Jute and Fibre Technology, University of Calcutta in collaboration with National Jute Board, MoT, GoI	National
7.	26.02.2016	<b>All India Chairman, Textile Engineering Division Board (TXDB), IE(I)</b>  <b>Delivered Keynote address on “Contemporary Approaches of Make In India Concepts in Textiles and Apparel Industries”</b>	26th National Convention, The Institution of Engineers (India), Karnataka State Centre.	Organized by The Institution of Engineers (India), Karnataka State Centre, Bangalore.	National
8.	23.06.2017	<b>Delivered Invited Lecture on Potential Applications of Open Weave Jute Geotextile (Soil Saver) in Meeting Geotechnical Difficulties.</b>	3rd International Conference on Natural Fibers: Advanced Materials for a Greener World, ICNF 2017, Braga, Portugal.	Organized by School of Engineering, University of Minho, Portugal.	International
9.	09.03.2018	<b>Delivered Invited Lecture on Open Weave Jute Geotextile (Soil Saver) in Geotechnical Constructions.</b>	TEXCON -2018 National Seminar.	Organized by Sri Vaishnav Vidyapith, Indore, SVVIT, Indore, 9th -10th March, 2018.	National

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Signature with date