

CURRICULUM VITAE OF SWEETY SHAHINUR

1. Name : Sweety Shahinur
 (a) Father's Name : Md. Ismail Bhuiyen
 (b) Mother's Name : Mrs. Sufia Begum
 (c) Husband's Name : Hossen Soheed Sohorawardi
2. (a) Permanent Address : Vill: Kazirchar, Post: Dulalpur ,
 Thana-Shibpur, Dist Norshingdhi
 (b) Present Address :Textile Physics Division,
 Bangladesh Jute Research Institute,
 Manik Mia avenue, Dhaka-1207
3. Nationality : Bangladeshi
4. Marital Status : Married
5. Date of Birth :17-01-1978
6. Educational Qualifications:



Degree/Diploma/Certificate	Class/Grade/ Division	University/ Institute /Board	Year
Ph.D. fellow in Manufacturing Engineering	Satisfactory	Kitami Institute of Technology, Japan	2018
M. Phil in Material and Metallurgical Engineering	Satisfactory	BUET	2011
M.Sc. in Applied Physics & Electronics	1 st Class (12 th)	DU	2001
B.Sc. (Hons) in Applied Physics & Electronics	1 st Class (12 th)	DU	2000
H.S.C (Science)	1 st Division	Dhaka Board	1996
S.S.C (Science)	*1 st Division	Dhaka Board	1994

7. Field of specialization: Physics, Applied Physics, Solid-State Physics, Nano-Technology, Product Development, Uncertainty, Sustainability, 3D printing and Recycle Jute Composite.

8. Training
 (a) In Country:

SL No	Organization	Year	Duration		Name of Programme
			Month.	Days	
1	Bangladesh Jute Research Institute	2022		02	ই- নথি
2	Bangladesh University of Engineering and Technology	2022		01	3D Printing Revolution in Light Engineering Sector
3	Bangladesh Jute Research Institute, Dhaka	2022		01	অফিস ব্যবস্থাপনা ও দক্ষতার উন্নয়ন
4	Bangladesh University of Engineering and Technology	2022		01	Development of competitive business plan with modern

					technologies in the era of IR 4.0 to enhance productivity of light engineering sector
5	Bangladesh Jute Research Institute, Dhaka	2022		01	সেবা প্রদান প্রতিশ্রুতি
6	Bangladesh Jute Research Institute, Dhaka	2022		01	ই গভর্নেন্স উদ্ভাবন কর্মপরিকল্পনা বাস্তবায়ন
7	Bangladesh Agricultural Research Council	2021		02	IoT based precision agriculture for sustainable production
8	Bangladesh Jute Research Institute, Dhaka	2021		01	GRSystem
9	Bangladesh Jute Research Institute, Dhaka	2021		01	E-nothi
10	Bangladesh Jute Research Institute, Dhaka	2021		01	আয়কর রিটার্ন দাখিল
11	Bangladesh Jute Research Institute, Dhaka	2021		01	অভিযোগ গ্রহন ও নিষ্পত্তিকরন
12	Bangladesh Jute Research Institute, Dhaka	2021		01	Annual Performance Agreement (APA)
13	Bangladesh Jute Research Institute, Dhaka	2020		01	তথ্য অধিকার আইন
14	Bangladesh Jute Research Institute, Dhaka	2020		02	Public Procurement Procedures (Goods, Works & Services)
15	Bangladesh Jute Research Institute, Dhaka	2019		02	Modern Office Management
16	Bangladesh Jute Research Institute, Dhaka	2019		02	Quality Control on Jute Goods
17	Bangladesh Agriculture Development Corporation, Dhaka	2019		01	Urban Stake Holder
18	Bangladesh Jute Research Institute, Dhaka	2019		01	Jute Textile Product Research & Development
19	Bangladesh Jute Research Institute, Dhaka	2019		01	Jute Industrial Product Research & Development
20	Bangladesh Jute Research Institute, Dhaka	2019		02	Innovation in Public Service
21	National Agriculture Training Academy	2019		05	ToT on Teaching Methods & Techniques
22	Bangladesh Jute Research Institute, Dhaka	2019		01	জাতীয় শুদ্ধাচার কৌশল বাস্তবায়ন
23	Bangladesh Institute of Management	2018		5	Project Development and Management
24	Bangladesh Jute Research Institute, Dhaka	2018		03	Research Methodology
25	Bangladesh Jute Research Institute, Dhaka	2018		03	Data Analysis by Micro-computer

26	Bangladesh Jute Research Institute, Dhaka	2018		03	Technical Report Writing and Editing
27	Bangladesh Jute Research Institute, Dhaka	2018		03	Agricultural Project Management
28	Bangladesh Agricultural Research Council	2014		5	Project Development and Management
29	BSNDT	2013		2	Advanced NDT and plant condition monitoring
30	BARD, Kotbari, Comilla	2012	4		Foundation Training course for NARS Scientist (Batch 22)
31	BRDTI, Sylhet	2012		7	Rural Development and poverty Reduction
32	BSNDT	2012		2	Digital industrial radiography
33	Bangladesh University of Engineering and Technology	2011		1	Workshop on Green Composite
34	Bangladesh Agricultural University GTI	2011		13	Research Methodology
35	Bangladesh University of Engineering and Technology	2010		1	Processing and Performance of low-cost polymer composite
36	South Asian Institute of Photography	2006	1		Basic Programmed in Photography
37	Institute of modern language	2003	50 hours		Basic Spoken in Japanese Language
38	SYSTECH Computer Education	2003	48 hours		C/C++ Programming Language
39	Dhaka University Computer Association	2002	6		Visual Basic Programming language
40	Dhaka University	1999		1	Orientation workshop on gender

9. Experience :

Position	Period		
	From	To	Total Yr/Mo
Scientific Officer	26/12/2005	15/4/2012	6 years 5 months 19 days
Senior Scientific Officer (CC)	15/9/2012	20/1/2015	2 years 4 months 5 days
Senior Scientific Officer	15/9/2016	22/8/2022	6y 1months 17 days

10. Achievements/Activities

(a) MS thesis Guide: 01 (one)

The Title of MS thesis: “The study of physico-mechanical properties of chemically modified jute fiber” by Mahbub Hossain. Department of Applied Chemistry and Chemical Technology, University of Dhaka, December 2007.

(b) Received Awarded 03 (three):

- i. Ph. D awarded received letter from Kitami Institute of Technology, Hokkaido Japan, 2018.
- ii. M. Phill Awarded received from Bangladesh University of Engineering and Technology, Dhaka, 2011
- iii. Reviewer award received from Advances in Materials and Processing Technologies, Taylor & Francis, 2022

(c) Outstanding achievement 26 (Twenty-six):

- i. I have acted as a member of **DPP development for SDG target 2.3** entitled “Expansion of appropriate post-harvest management technologies (processing, preservation and packaging) to reduce production loss and development market linkage among the producer and consumer” in 2022.
- ii. I have actively participated in different official stationeries **Estimation Cost Committee** of revenue budget and project at Bangladesh Jute Research Institute, Dhaka in 2019-20, and 2020-21. I estimated the cost by justifying the price of products from the local market and compared them with the virtual data.
- iii. I am working as the alternative focal point of the **National Integrity Strategy (NIS)**, BJRI since September 2021. I initiate different programs, training, and environmental development activities regarding this schedule. I supervised and monitored the activities against corruption through posters and leaflets in 2022. Act as a reporter in the different meetings of the stakeholders of BJRI which is related to NIS. I also prepared the proceedings of the conducted meetings.
- iv. I actively participated and dissipated the jute product knowledge to the foreign delegates at the “36th Regional Conference for Asia and Pacific (**APRC**)” on 08-11th March 2022 at Hotel Intercontinental, Dhaka, Bangladesh.
- v. I participated in the **workshop** entitled “3D Printing Revolution in Light Engineering Sector”; “Development of competitive business plan with modern technologies in the era of IR 4.0 to enhance the productivity of light engineering sector” in 2022
- vi. Act as a **Compiling and Editing member**, reporter and I contributed to preparing “Annual Technical Report, Annual Technical Program and Highlight of BJRI (Technology Wing) during the fiscal year of 2011-12 and 2012-13, 2013-14, 2020-21 and 2021-22.
- vii. I have worked on **Receiving Committee** of BJRI stationeries in 2020-21 and the scientific instrument of the “Development of reactive dye and different printing (pigment, rubber, and foil) technology on jute and jute-cotton blended fabrics” program.
- viii. I have presented as **keynote speaker** on “Jute composite materials” in the Expert panel for the development of quality research workshop, 2022. In this workshop, different types of innovations in BJRI such as jute, their thermoset and thermoplastics composites were

highlighted. The drawback of the research technology transfer is also discussed for current and future research development.

- ix. I was an active member of the stall arrangement in the “**Jute Day-2020**” at Officers Club, Baily Road, Dhaka. At that international fair different foreign delegates visited and observed the jute-product to promote naturally sustainable products globally.
- x. I have actively participated to develop a souvenir for “100 years celebration of National Father Sekh Mujibur Rahman -2020”
- xi. Obtained **Research Assistantship** (RA) during Ph. D study period at KIT University, JAPAN in 2015-2018. During that time information about 3D printing by additive and subtractive methods was applied to product development by wood and plastics.
- xii. I have completed my Ph.D. degree from KIT, Hokkaido, Japan under the supervision of Dr. Sharifu Ura. Professor, Department of Manufacturing Engineering, Faculty of Mechanical Engineer in 2018. The title of the Ph. D dissertation is “**Quantification of uncertainty of material properties and its application**”.
- xiii. I completed the **M. Phill degree** from the BUET, Dhaka under the supervision of Dr. Mahbub Hasan, professor, department of Material and Ma Engineering, Faculty of Mechanical Engineering in 2018. The title of the Ph. D dissertation is “Quantification of uncertainty of material properties and its application”.
- xiv. I am a **member** of the Bangladesh Physical Society (**BPS**), Bangladesh Society for Non-Destructive Testing (**BSNDT**), **DROPS**, Bangladesh Association for Advance Science (**BAAS**), and Mechanical Engineer Society (**ME**).
- xv. I was involved in the **Research and Development** project entitled “Design and development of the production process of jute-cotton blended yarn and Fabrics” during 2012-20014. Different aged jute fibers are blended with cotton and yarn is fabricated using rotor spinning technology. The fabricated yarn quality is compared based on Physico-mechanical properties under the **Ministry of Science and Technology**. I was actively associated with the proposal development, experiment, and monitoring of these project activities.
- xvi. I have edited more than 60 completed programs abstract of the BJRI project and program in the **ARMIS** under the “Capacity Enhancement of NARS through ICT- based Agricultural Research Management Information System” project.
- xvii. I have acronyms for different national and international programs and events in BJRI training inauguration program 2006.
- xviii. Obtained **scholarship** under “Jute Product, Use and Exploration of Jute Diversified Production” during M. Phill in Bangladesh University of Engineering and Technology, Dhaka, Bangladesh in 2008.

- xix. I have successfully completed **visual basic** and **C++ programming**. I am a member secretary of BJRI woman association
- xx. I have participated in different **Seminars/Workshops/Symposiums** in Bangladesh and abroad during 2005-2021.
- xxi. **Class** has been conducted on “Jute diversified product development and processing of developed jute product” in 2008.
- xxii. I have acted as a **Reviewer** in different reputed journals (Springer, Taylor and Francis (Journal of Natural Fiber; Advances in Materials and Processing Technologies).
- xxiii. I have published 17 (**seventeen**) **abstracts** at different national and international conferences. 14 of them are orally presented and 3 of them are pastorally presented in front of the audience.
- xxiv. I actively participated in different “Jute Fairs” in different places of Dhaka in 2006, 2007, 2022. I have promoted jute products to national and international customers and delegates.
- xxv. I was involved in the **Core Research** project entitled” Production of fine yarns by blending jute (raw and modified) with cotton using rotor and ring spinning technology” during 2008-2009 under the ministry of agriculture. Different varieties of jute fibers are blended with cotton and yarn is fabricated using rotor and ring spinning technology. The yarn quality is compared based on count, tenacity, breaking elongation, thick places, thin place, neps and, Lea.

11. PUBLICATIONS: Sixty Eight (68)

Sl. No.	Author Ship	Name of the Publication	Type
Book Chapter			
1	Principal author	Effect of Processing Techniques and Characteristics of Plastic Products, Reference Module in Materials Science and Materials Engineering , Elsevier, 2021, ISBN 9780128035818, https://doi.org/10.1016/B978-0-12-820352-1.00199-1 <i>Sweety Shahinur</i> , Mahbub Hasan, Julfikar Haider,	Book Chapter
2	Principal author	9 - Hybrid sustainable polymer composites, Editor(s): Md. Rezaur Rahman, In Woodhead Publishing Series in Composites Science and Engineering, Chapter of Book: Advances in Sustainable Polymer Composites , Woodhead Publishing, 2021, Pages 209-229, doi.org/10.1016/B978-0-12-820338-5.00009-6 <i>Sweety Shahinur</i> , Mahbub Hasan,	Book Chapter
3		Jute/Coir/Banana Fiber Reinforced Bio-Composites: Critical Review of Design, Fabrication, Properties and Applications, Reference	

	Principal author	Module in Materials Science and Materials Engineering, Elsevier, 2019, ISBN 9780128035818, Chapter of book: Encyclopedia of Renewable and Sustainable Materials https://doi.org/10.1016/B978-0-12-803581-8.10987-7 . <i>Sweety Shahinur</i> , Mahbub Hasan	Book Chapter
4	Principal author	Natural Fiber and Synthetic Fiber Composites: Comparison of Properties, Performance, Cost and Environmental Benefits, Reference Module in Materials Science and Materials Engineering, Elsevier, 2019, ISBN 9780128035818, Chapter of book: Encyclopedia of Renewable and Sustainable Materials https://doi.org/10.1016/B978-0-12-803581-8.10994-4 . <i>Sweety Shahinur</i> , Mahbub Hasan	Book Chapter
5	Principal author	Developing Successful Biobased Product: Key Design and Manufacturing Challenges. Reference Module in Materials Science and Materials Engineering, Elsevier, 2019, ISBN 9780128035818, Chapter of book: Encyclopedia of Renewable and Sustainable Materials https://doi.org/10.1016/B978-0-12-803581-8.10941-5 <i>Sweety Shahinur</i> , Mahbub Hasan, AMM Sharif Ullah	Book Chapter
Full length International Paper			
1	Principal author	Current Development and Future Perspective on Natural Jute Fibers and Their Biocomposites. <i>Polymers</i> . 2022; 14(7):1445. https://doi.org/10.3390/polym14071445 Shahinur S, Sayeed MMA, Hasan M, Sayem ASM, Haider J, Ura S.	Scientific paper
2	Principal author	Effect of Rot-, Fire-, and Water-Retardant Treatments on Jute Fiber and Their Associated Thermoplastic Composites: A Study by FTIR, <i>Polymers</i> , 2021, 13(15):2571. https://doi.org/10.3390/polym13152571 , Corpus ID:236951308 <i>Sweety Shahinur</i> , Mahbub Hasan, Qumrul Ahsan, Nayer Sultana, Zakaria Ahmed, Julfikar Haider.	Scientific paper
3	Principal author	Impact of different layers on physico-mechanical criteria of jute fabrics polyester composites. <i>Advances in Materials and Processing Technologies</i> (2021): 1-11. doi: 10.1080/2374068X.2021.1872246 , Corpus ID: 234177043 <i>Sweety Shahinur</i> , Sharmin Akter, Zakirul Islam, and Mahbub Hasan.	Scientific paper
4	Principal author	Effect of Chemical Treatment on Thermal Properties of Jute Fiber Used in Polymer Composites , MPDI, Journal of Composites Science, 2020 doi:10.3390/jcs4030132 <i>Sweety Shahinur</i> , Mahbub Hasan, Qumrul Ahsan, Julfikar Haider -	Scientific paper
5	Principal author	A decision model for making decisions under epistemic uncertainty and its application to select materials Publication date 2017/8 Journal AIEDAM, Volume 31 Issue 3 pp: 298-312 Publisher Cambridge University Press, doi:10.1017/S0890060417000191 <i>Sweety Shahinur</i> , AMM Sharif Ullah, Muhammad Noor-E-Alam, Hiroyuki Haniu, Akihiko Kubo,	Scientific paper

6	Principal author	Quantifying the uncertainty associated with the material properties of a natural fiber 2017/1/1, Journal of Procedia CIRP, Volume 61 pp: 541-546 Publisher Elsevier, doi: 10.1016/j.procir.2016.11.227 <i>Sweety Shahinur</i> , AMM Sharif Ullah	Scientific paper
7	Principal author	Physical and Mechanical Properties of Chemically Treated Jute Fiber Reinforced MAgPP Green Composites, Applied Mechanics and Materials , Volume 860, pp:134-139, 2017, Publisher in Material Science and Engineering, doi.org/10.4028/www.scientific.net/AMM.860.134. <i>Sweety Shahinur</i> , Mahbub Hasan and Qumrul Ahsan	Scientific paper
8	Principal author	Effect of Rot Retardant Treatment on Properties of Jute Fibers, Journal of Natural Fibers. 2017, Journal of Natural Fibers, Volume 14, issue 2, pp: 205-216, doi: 10.1080/15440478.2016.1193085 <i>Sweety Shahinur</i> , Mahbub Hasan and Qumrul Ahsan	Scientific paper
9	Principal author	Water Absorbance and Rotting Property of Jute Fiber after CuSO ₄ Treatment, Indian Journal of Natural Fibres v.2 n.1, pp: 51-57. July 2015 <i>Sweety Shahinur</i> , Mahbub Hasan, Qumrul Ahsan and Shamina Jafrin	Scientific paper
10	Principal author	Characterization on the Properties of Jute Fiber at Different Portions Hindawi Publishing Corporation, International Journal of Polymer Science, Volume 2015, Article ID 262348, pages 6 http://dx.doi.org/10.1155/2015/262348 <i>Sweety Shahinur</i> , Mahbub Hasan, Qumrul Ahsan, Dilip Kumar Saha, and Md. Saiful Islam	Scientific paper
11	Co-Author	Study on the Chemical Modification Process Optimization and Spinning Properties of Jute Fibre, May 2015, Md Uddin, <i>Sweety Shahinur</i> , Kaysar Mohammad Abdullah	Scientific paper
12	Co-author	On the mechanical properties and uncertainties of jute yarns , Publication date 2017/4/25 Journal Materials Volume 10 Issue 5 Pages 450 Publisher Multidisciplinary Digital Publishing Institute, doi: 10.3390/ma10050450 AMM Ullah, <i>Sweety Shahinur</i> , Hiroyuki Haniu	Scientific paper
13	Co-author	Physical, Mechanical and Thermal Properties of Jute and Bamboo Fiber Reinforced Unidirectional Epoxy Composites, Procedia Engineering, Volume 105, issue 2015, pp: 933-939. Publisher Elsevier, doi: 10.1016/j.proeng.2015.05.118 Subhankar Biswas, <i>Sweety Shahinur</i> *, Mahbub Hasan and Qumrul Ahsan	Scientific paper
14	Co-author	Effect of weak acid and weak alkali on jute and fabrics in physical properties. Indian Journal of Natural Fiber. vol-1, No.- 1, pp: 83-89. July 2014 Shamina Jafrin, <i>Sweety Shahinur</i> , Md. Abul Khayer Mollah, Ferdouse Ara Dilruba, Md. Assaduzzaman and Sushanta Kumar Dhali.	Scientific paper
15	Co-author	Effect of Different Pre-Treatment on Various Properties of Undyed and Dyed Jute Fabrics. Journal of Textile and Apparel Technology and Management.USA.Vol-6(1), 2009. pp:1-9. Corpus ID: 44185857	Scientific paper

		Md. Shahidullah, Md. Moslem Uddin, M.M. Alamgir Sayeed, <i>Sweety Shahinur</i> and Zakaria Ahmed.	
Full length National Paper			
1	Principal author	Development of a Simple Technique to Measure the Drape Co-efficient of Fabrics by an Old Model Drape Meter, Bangladesh Journal of Jute and Fiber Research. Vol-XXX (1-5), 2013. pp:23-31 ISSN: 0253-5424 <i>Sweety Shahinur</i> , Md. Mojid Mollah, Md. Moslem Uddin, M.M. Alamgir Sayeed and Md Abdur Rahim.	Scientific paper
2	Principal author	Effect of chemical treatment on the mechanical properties of jute fiber. Bangladesh Journal of Jute and Fiber Research. Vol-XXX (1-5), 2013. pp:23-3, ISSN:10253-5424 <i>Sweety Shahinur</i> , Qumrul Ahsan, Mahbub Hasan, Md. Shahidullah and Shamina Jafrin	Scientific paper
3	Principal author	Outcome of Rot Retardant Treatment on the Mechanical Properties of Different Portion Jute Fiber. Bangladesh Journal of Physics, Vol-13, pp: 59-64, June 2013, ISSN: 1816-1081, <i>Sweety Shahinur</i> , Mahbub Hasan, Qumrul Ahsan	Scientific paper
4	Principal author	Effect of Fire-Retardant Treatment on Thermal Properties of Jute Fiber. Bangladesh Journal of Physics, Vol-13, pp: 53-58, June 2013, ISSN: 1816-1081. <i>Sweety Shahinur</i> , Mahabub Hasan, Qumrul Ahsan, Dilip Kumar Saha	Scientific paper
5	Principal author	Comfort Properties of Jute and Jute Blended Blankets. Journal of Institute Textile Engineers and Technology, Vol-9, 2008. PP: 21-28. <i>Sweety Shahinur</i> , Md. Moslem Uddin, Nilufar Matin.	Scientific paper
6	Co-author	Effect of blend ratio and material preparation on the physical properties of jute cotton blended rotor spun yarn. Journal of Textile Engineering (Dhaka). Vol-TE-01, No-01, December 2013 pp:60-66. Md. Moslem Uddin, Md. Shahidullah, Md. Assaduzzaman, Hosne Ara Begum, Abdullah Kaisar and <i>Sweety Shahinur</i>	Scientific paper
7	Co-author	Effect of chemical treatment on the physical properties of different portions of jute fiber. Journal of Textile Engineering (Dhaka). Vol-TE-01, No-01, December 2013 pp:60-66. Md. Moslem Uddin, H.M. Zakir Hassain, Najmina Chowdhury, Sharfon Nahar Arju, <i>Sweety Shahinur</i> and Abdullah Kaysar	Scientific paper
8	Co-author	The Effect of Roving Twist on Jute Cotton Blended Ring Yarn Properties. Bangladesh Journal of Jute and Fiber Research. Bangladesh Journal of Jute and Fiber Research, Vol-28(1-5). 2013. pp: 75-78. Md. Moslem Uddin, <i>Sweety Shahinur</i> , Hosne Ara Begum, Mohammad Abdullah Kaiser and Nilufar Matin	Scientific paper
9	Co-author	Studies on Different Properties of Untreated and Differently Treated Undyed and Dyed Jute Fabrics. Bangladesh Journal of Progress Science and Technology. Vol-6(2), July 2008. pp: 507-510.	Scientific paper

		Md. Shahidullah, Md. Moslem Uddin, <i>Sweetly Shahinur</i> , M.A. Halim and M. A. Mojid Mollah.	
10	Co-author	Study on Draft Setting of Drawing Frames for Blended Jute Yarn. Bangladesh Journal of Jute and Fiber Research, Vol-28(1). 2008. pp: 51-56. A.K.M. Mahabubuzzaman, Md. Osman Ghani Miazi and <i>Sweetly Shahinur</i> .	Scientific paper
11	Co-author	Studies on Physico-chemical Properties of C-2142 Jute Variety. Bangladesh Journal of Jute and Fiber Research. Bangladesh Journal of Jute and Fiber Research, Vol-27(2), 2007, pp: 63-67 Mahmoda Begum, Mubarak Hossen, Shamsul Haque, <i>Sweetly Shahinur</i> .	Scientific paper
Short Communications			
1	Principal-author	Comparative Studies on the Comfort Properties among Different Types of Jute and Jute Blended and Other Blankets. Journal of Southeast University of Science and Engineering, Vol-3(3), July 2009.pp: 93. <i>Sweetly Shahinur</i> , A. K. M. Mahabubuzzaman, Md. Shahidullah	Short Communication
2	Co-author	Studies on the Physico-mechanical Properties of Okra (<i>Abelmoschus esculentus</i>) Fiber. International Journal of Sustainable Agriculture Technology. Vol-5(5). August 2009. pp: 122-124. Md. Moslem Uddin, Md Asaduzzaman, Nazmina Chowdhury, <i>Sweetly Shahinur</i> and Md. Abdullah Kaisar.	Short Communication
Conference Proceedings			
1	Principal author	Elucidating Energy Consumption During Jute Fiber- to-Yarn Production. Proceedings of eco-design Conference 2021 International Symposium. Nara, Japan, December ID: D-6 pp:777-780 <i>Sweetly Shahinur</i> , Sharifu Ura	Conference Proceeding
2	Principal author	Effects of Rot and Water Retardant Treatment on the Properties of Jute Fiber MAgPP Composites. International Seminar on Strengthening of Collaboration for Jute, Kenaf and Allied Fibers Research and Development. 8-9 th June, 2011, pp: 325-328. <i>Sweetly Shahinur</i> , Mahbub Hasan, Qumrul Ahsan	Conference Proceeding
3	Principal author	Thermal Behavior of Water Retardant Treated Jute Fibers. 9th International Conference of Mechanical Engineering (ICME 2011) 18-20 December, 2011 at BUET. Abstract ID no-107, Paper ID no-TH-009. <i>Sweetly Shahinur</i> , Mahbub Hasan, Qumrul Ahsan, Dilip Kumar Saha	Conference Proceeding
4	Principal author	Effects of Chemical Retardant Treatment on Physico-Mechanical Properties of Jute Fiber Reinforced MAgPP Green Composites, International Symposium on Green Manufacturing Applications (ISGMA-2011), Vol. X, No.- X, pp: X-XX, Seoul National University. <i>Sweetly Shahinur</i> , Mahbub Hasan, Qumrul Ahsan	Conference Proceeding

5	Principal author	Characterization of CuSO ₄ (rot proof) treated jute fiber, 3 rd International Conference on Structure, Processing and Properties of Materials, (SPPM 2010) 24-26 February 2010, Dhaka, Proceedings ID- E 32. <i>Sweety Shahinur, Qumrul Ahsan, Mahbub Hasan and Shamina Jafrin.</i>	Conference Proceeding
6	Principal author	Effect of rot proof treatment on the physical and mechanical properties of jute fiber. International Conference on Magnetism and Advanced Materials (ICMAM-2010) 03-07 March 2010, Dhaka, Bangladesh, Proceedings ID-NC-19. pp:238 <i>Sweety Shahinur, Qumrul Ahsan, A.K.M. Mahabubuzzaman,</i>	Conference Proceeding
7	Co-author	Mechanical and thermal properties of jute nano-clay modified polyester bio-composite, International Conference of natural fiber (ICNF 2021) Proceeding ID 173 17-May 2021, Portugal, pp:155-157 Mohammad Abdullah Kaysar, <i>Sweety Shahinur</i> , Mohammad Mahmudul Habib	Conference Proceeding
Leaflet			
1	Principal author	Effects of Rot and Water Retardant Treatment on the Properties of Jute Fiber MAgPP Composites. International seminar on Strengthening of Collaboration for Jute, Kenaf and Allied Fibers Research and Development. 8-9 June, 2011. <i>Sweety Shahinur, Mahbub Hasan, Qumrul Ahsan</i>	Leaflet
2	Principal author	Development of a Simple Technique to Measure the Drape Coefficient of Fabrics by an Old Model Drape Meter, Training on Quality Control of Jute and Jute Goods, 19 th June-3 rd July 2011. <i>Sweety Shahinur</i> and Md. Shahid Ullah.	Leaflet
3	Principal author	Studies on the Physico-Mechanical Properties of Chemically Modified Jute Fiber. Bose Conference on Contemporary Physics-08 (19-21 March, 2008). <i>Sweety Shahinur</i> and Md. Moslem Uddin.	Leaflet
Bulletin/Monogram			
1	Co-author	Potentiality of jute in pulp and paper industry of Bangladesh. Jute and jute fabrics Bangladesh. Newsletter of BJRI. Vol-37(1), 2010. pp: 5-7. H. M. Zakir Hossain, Mazedul Kabir, Nayer Sultana and <i>Sweety Shahinur</i>	Bulletin (BJRI Newsletter)
Seminar/Workshop/Symposium			
1	Principal author	Elucidating Energy Consumption During Jute Fiber- to-Yarn Production. Proceedings of eco-design Conference 2021 International Symposium. Nara, Japan, December ID: D-6 pp:777-780 <i>Sweety Shahinur, Sharifu Ura</i>	Seminar (ppt)

2	Principal author	Development of data base for CO2 emission for jute material in industries, International Conference on Physics-2020, ID- MS 19, pp: 115 <i>Sweety Shahinur</i> , AMM Sharif Ullah, Sharmin Akhter, Tahnin Binte Kamal	Seminar (ppt)
2	Principal author	Quantification of big cluster data for jute, coir and bamboo fiber, International Conference on Physics-2020, ID- MS 18, pp:114-115 <i>Sweety Shahinur</i> , AMM Sharif Ullah	Seminar (ppt)
3	Principal author	Quantification of uncertainty of material properties and its application, BJRI Conference Room, 19 th November 2018, Banglades Jute Research Institute, Makin Mia Avenue Dhaka-1207. <i>Sweety Shahinur</i>	Seminar (ppt)
4	Principal author	Quantification of uncertainty of material properties and its application (Importance, Methodology, Results), Kitami Institute of technology, Seminar Room -1, 18 th December at 16.00 hours, 2017 <i>Sweety Shahinur</i>	Seminar (ppt)
5	Principal author	Quantification of uncertainty of material properties and its application (Results, Comparison, Applications, Future recommendation, clarification), Kitami Institute of technology, 29 January 2018 at 16:00 hours. Mechanical Engineering Building 1 3rd Floor Multi-purpose Seminar Room <i>Sweety Shahinur</i>	Seminar (ppt)
6	Principal author	Characterization of chemically modified jute fiber for polymer composites , Bangladesh University of Engineering and technology, MME department, 10 th April, 2012 at 11.00 hours <i>Sweety Shahinur</i>	Seminar (ppt)
7	Principal author	Studies on the Physico-mechanical Properties of Chemically Modified Jute Fiber. Bose Conference on Contemporary Physics -2008. ID No-LCPTF-7, pp:77 <i>Sweety Shahinur</i> and Md. Moslem Uddin.	Seminar (ppt) and Abstract
8	Principal author	Studies on the Physico-chemical and Physico-mechanical Properties of Sodium Chlorate Treated Jute Fiber. International Physics Conference. May 15-17, 2009. ID No. III-CP 11. pp: 26. <i>Sweety Shahinur</i> and Shamina Jafrin.	Seminar (ppt) and Abstract
9	Principal author	Effect of Rot Proof Treatment on the Physical and Mechanical Properties of Jute Fiber. International Conference on Magnetism and Advanced Materials (ICMAM-2010) 03-07 March 2010, Dhaka, Bangladesh, ID No-NC-19. pp:85 <i>Sweety Shahinur</i> , Quamrul Ahsan and A.K.M. Mahabubuzzaman.	Seminar (ppt) and Abstract
10	Principal author	Characterization of CuSO ₄ (rot proof) Treated Jute Fiber, 3 rd Intl. Conference on Structure, Processing and Properties of Materials, (SPPM 2010) 24-26 February 2010, Dhaka, Proceedings ID- E 32. <i>Sweety Shahinur</i> , Qumrul Ahsan, Mahbub Hasan and Shamina Jafrin	Seminar (ppt)
11	Principal author	Thermal Behavior of Water Retardant Treated Jute Fibers. 9th International Conference of Mechanical Engineering (ICME2011) 18-20 December, 2011 at BUET. Abstract ID no-107, Paper ID no-TH-009. <i>Sweety Shahinur</i> , Mahbub Hasan, Qumrul Ahsan, Dilip Kumar Saha	Seminar (ppt) and Abstract

12	Principal author	A Study of Bleached Jute Fabric Composite in Low Load Bearing Composite. National conference on physics for development, 10-11 February 2011. ID No- SSIT-II- A-11. pp: 6 <i>Sweety Shahinur</i> , Md. Shahidullah, Md. Kamal Uddin, Subhankar Bishwas and Md. Asaduzzaman.	Seminar (ppt) and Abstract
13	Principal author	Thermal Properties of the Fire Retardant Treated Jute Fiber, International Conference on Physics of Today, 15-16 March 2012, ID-PCCM-III-B 04, pp: <i>Sweety Shahinur</i> ¹ , Mahabub Hasan ² , Qumrul Ahsan ³	Seminar (ppt) and Abstract
14	Principal author	Study on the Prevalence of Obesity among Bangladeshi Population of Comilla Region, 22 nd Bangladesh Science Conference, 27-29 th September 2012, organized by BASS and BCSIR. Section-3, pp-24. <i>Sweety Shahinur</i> , Suman Mahajon, Bulbul Ahmed, Masudul Hoq Chowdhury, Md. Iskander Alam	Abstract (ppt) and Seminar (ppt)
15	Principal author	Thermal Characterization of the Fire Retardant Treated Jute Fiber. 6th International Mechanical Engineering Conference & 14th Annual Paper Meet 28-29 September, 2012. Session-6, ID-HT 15. <i>Sweety Shahinur</i> , Mahabub Hasan, Qumrul Ahsan	Abstract and Seminar (ppt)
16	Co-author	Studies on the Physico-mechanical Properties of Okra Fiber. Bose Conference on Contemporary Physics -2008. ID No-LCPTF-1, pp: 72-73. Md. Moslem Uddin and <i>Sweety Shahinur</i>	Seminar (ppt) and Abstract
15	Co-author	Effect of Process and Material Parameters on the Physical Properties of Jute Cotton Blended Yarn. International Physics Conference. May 15-17, 2009. ID No- III-CP 12. pp: 27. Md. Moslem Uddin, A. K. M. Masud, A.K.M. Mahabubuzzaman and <i>Sweety Shahinur</i> .	Seminar (ppt) and Abstract
16	Co-author	A Fundamental Study on Physical Properties of All Jute and Jute Blended Apparel Fabric. International Conference on Recent Advances in Physics (ICRAP) 2010, March 27-29, 2010, Dhaka, Bangladesh ID No- CMP-27-2. pp: 34-35. A. K. M. Mahabubuzzaman, Md. Osman Ghani Miazi, Md. Abdus Shahid and <i>Sweety Shahinur</i> .	Seminar (ppt) and Abstract
17	Co-author	Study on the End Product of Processing Factor of the Furnisher Card Machine on the Textile Material Possessions of Mingled Jute Yarn. International Conference on Magnetism and Advanced Materials (ICMAM-2010) 03-07 March 2010, Dhaka, Bangladesh, ID No-NC-14. pp:81 A. K. M. Mahabubuzzaman, Md. Osman Ghani Miazi and <i>Sweety Shahinur</i> *. * Corresponding Author	Seminar (ppt) and Seminar (ppt) and Abstract
18	Co-author	Effect of Blend Ratio and Material Parameter on the Physical Properties of Jute Cotton Blended Rotor Spun Yarn. National Conference on Physics for Development, 10-11 February 2011. ID No-PCCM-IV-A 09. pp: 22-23. Md. Moslem Uddin, Md. Shahidullah, Md. Asaduzzaman, <i>Sweety Shahinur</i> and Hosne Ara Begum.	Seminar (ppt) and Abstract

19	Principal author	Characterization of CuSO ₄ (rot proof) Treated Jute Fiber, 3 rd Intl. Conference on Structure, Processing and Properties of Materials, (SPPM 2010) 24-26 February 2010, Dhaka, Proceedings ID- E 32. <i>Sweety Shahinur</i> , Qumrul Ahsan, Mahbub Hasan and Shamina Jafrin.	Seminar (ppt)
POSTER			
1	Principal author	Characterization of the Bleached Fabrics/mat for Low Load Bearing Composite. National Conference on Physics for Development, 10-11 February 2011. ID No- poster- 25. pp: 66- 67. <i>Sweety Shahinur</i> , A.K.M. Mahabubuzaman, Md. Moslem Uddin, Md Asaduzzaman and Md. Kamal Uddin.	Abstract and Seminar (poster)
2	Principal author	Modification and Characterization of Rot Retardant Jute Fiber. International Conference on Recent Advances in Physics (ICRAP) 2010, March 27-29, 2010. ID No- POS-28-19. pp: 78. <i>Sweety Shahinur</i> , Qumrul Ahsan, Samina Jafrin, A. K. M. Mahabubuzaman.	Abstract and Seminar (poster)
3	Principal author	Water Retardant Jute Fiber Characterization for Composite. National Conference on Physics for Development, 10-11 February 2011. ID No-poster- 26. pp: 67 <i>Sweety Shahinur</i> , Qumrul Ahsan, Mahbub Hasan, Md. Kamal Uddin, Dilip Kumar Saha.	Abstract and Seminar (poster)
4	Principal author	Effects of Rot and Water Retardant Treatment on the Properties of Jute Fiber MAgPP Composites. International Seminar on Strengthening of Collaboration for Jute, Kenaf and Allied Fibers Research and Development. 8-9 June, 2011, pp: 74. <i>Sweety Shahinur</i> , Mahabub Hasan, Qumrul Ahsan	Abstract and Seminar (poster)
Others			
1	Co-author	দেশীয় সম্পদ ও পরিবেশ রক্ষায় পাটজাত দ্রব্যের ব্যবহার অতি জরুরী। বৃত্তের বাইরে. Weakly. pp:22 Md. Moslem Uddin, <i>Sweety Shahinur</i> , and Minhaz Uddin Jobayer.	Others

*ppt = Power Point oral presentation

12. List of Developed/executed/Supervised research Programme

Sl. No.	Name of Programme	Type
1	Determination of static charge and thermal behavior of jute and jute blended blankets (2006-2009)	Executed
2	Modification of an old Drape tester machine and development of a simple technique for measuring drape co-efficient of fabrics. (2013-14)	Developed
3	Production and development of jute-based baby napkins of different size to study its socio-economic feasibility (2005-2009)	Executed
4	Studies on the physical properties of jute for scientific grading. (2000-2010)	Executed
5	Production of fine yarns by blending jute (raw and modified) with cotton using rotor and spinning technology and studying the physical properties of jute cotton blended ring and rotor yarn. (2006-2010)	Executed
6	Development of Rot retardant jute-based composite for household accessories (2008-12)	Developed
7	Development of Fire retardant jute-based MAgPP renewable composite for kitchen cabinet (2008-12)	Developed
8	Development of water retardant jute-based composite bathtub (2008-12)	Developed
9	Investigation of the physicochemical, Physico-chemical properties of jute, chemically modified jute fiber and jute composite (2008-10)	Executed
10	Effect of nano-clay and carbon nano-tube on the jute polyester thermo-set composites (2013-2015)	Supervised and Executed
11	Preparation of Biodegradable hybrid jute-polymer Rickshaw (2013-2014)	Supervised and Executed
12	Comparative study between chemically modified jute fiber and optical brightener treated jute fiber. (2014)	Supervised and Executed
13	Design and development in the production process of jute cotton blended yarn in short-staple spinning technology and adaptive modeling (2010-15)	Supervised and Executed
14	Characterization of composite using natural and chemically modified jute fiber (2010-14)	Executed
15	Studies on the sustainable properties (water usage and energy absorption) of jute material from fiber to yarn. (2018-19)	Supervised, and Executed
16	Development of a database for jute yarn manufacturing regarding CO2 emission (2019-20)	Developed
17	Development and comparison of jute, coir, and bamboo fiber data based on different statistical database (2020-21)	Developed, Supervised, and Executed
18	Investigation of the working conditions of the workers involved in the yarn product	Supervised, and Executed
19	Material selection based on the fuzzy database of natural fiber	On going
20	Recyclability of the PP for jute-based bio-composite for household purposes/brick	On going

21	Development of jute-based 3D filament for 3D printing- a new area of jute diversification	On going
22	Jute-based product development through injection molding	On going
23	Jute micro fiber through ball mill in lab scale for value-added product development	On going
24	CO2 emission for jute fabrics in the jute industries	On going
25	Development of jute-based absorbent material	On going
26	Anti-bacterial activity and longevity of bio-based nursery pot for product	On going
27	Export-related data upgradation of jute during covid	On going

13. Professional Membership:

- Bangladesh Physical Society (BPS)
- Bangladesh Society for Non-Destructive Testing (BSNDT)
- DROPS,
- BASS ,
- Muktochukh, and
- Mechanical Society

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