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Dr. Moumita Bera

Area of Interest

Structure and properties of fibrous material

Functional textile

Medical textiles

Textile testing

Structure and properties of floor covering material

Education

Sl. no.	Examination	Organization	Year of passing
1	Madhyamik	WBBSE	May, 1999
2	Higher Secondary	WBCHSE	May, 2001
3	B.Tech	Calcutta University	May, 2006
4	M.Tech	IIT Delhi	May, 2008
5	Ph.D	IIT Delhi	November, 2013

Sponsored projects

1. **“Awareness programe in Carpet making craft among school children”** funded by O/o DC(HC), MOT under design and technical upgradation scheme. Rs. 1 lakh. Vide sanction no J-12012/115/2014-15/DS/CR(Genl.), dated 30/12/2014. Held on 23-24 January 2015.

2. **“Seminar on carpet making craft for SC section of the society”** funded by O/o DC(HC), MOT under Research and Development scheme Rs. 4.8 lakh. Held 15-17 July, 2015.

3. **“Base woven textiles used for handicrafts at Bhadohi for SC category artisans”**
Under the integrated Design and Technical development scheme of office of development commissioner (Handicrafts) New Delhi. Rs. 8.45 lakh. Held 30th Oct, 2015 to 8th Feb 2016.

4. **Development of woven carpet in terry pile structure in loom in hand made carpet** funded by O/o DC(HC), MOT under Research and Development scheme sanction letter No. K-12014/4/75/2014-15/R&D dated 12.03.15. Rs. 5 lakh. 12.03.15 to 21.04.17.

5. **Backing cloth for tufted carpet**” for SC section of the society from 17th to 18th March 2017 sponsored by office of development commissioner (Handicrafts) New Delhi, Rs. 1 Lakh, Held 17-18.03.2017.

6. Design and Technology Development workshop in **Backing cloth for tufted carpet** for 2 months duration, sponsored by office of Development Commissioner (Handicrafts) New Delhi, Rs. 4.8 Lakh. Yet to be started (fund not received).

Professional society membership

Life membership of **The Indian Natural Fibre Society**

Research experience

1. Doctorate of Philosophy (Ph.D), Indian Institute of Technology (IIT), Delhi

Duration: 2008 -2013

***Title of the thesis:* Studies on the characteristics of elastic knitted fabric tubes and their influence on pressure generation**

2. Masters of Technology in Textile Engineering, Indian Institute of Technology (IIT), Delhi

Duration: 2006 -2008

***Title of the thesis:* Influence of coupling agents on Jute –PP composites**

3. Bachelor of Technology in Jute and Fibre Technology, Institute of Jute Technology, Calcutta University

Duration: 2002 -2006

***Title of the thesis:* Formaldehyde free finishes on Linen fabric**

Publications

1. M. Bera, R. Alagirusamy and A. Das, "A study on interfacial properties of Jute-PP composites", *Journal of Reinforced Plastics and Composites*, 29(20), 2010, 3155-3161, (Impact factor = 0.902), ISSN0731-6844.
2. D. Gupta, R. Chattopadhyay and M. Bera, "Comfort properties of pressure garments in extended state", *Indian Journal of Fibre & Textile Research*, 36, December, 2011, 415-421, (Impact factor = 0.486), ISSN 0971-0426.
3. D. Gupta, R. Chattopadhyay and M. Bera, "Compression stockings-Structure Property analysis", *Asian Textile Journal*, 29(1), 2011, 39-45, ISSN 0974-0589.
4. P. Paul, D. Gon and M. Bera, "Effect of weft yarn type and pick density on tearing strength of woven fabric", *Man Made Textiles in India*, February, 2011, 44-48, ISSN 0377-7537.
5. R. Chattopadhyay, D. Gupta and M. Bera, "Effect of Input Tension of Inlay Yarn on the Characteristics of Knitted Circular Stretch Fabrics and Pressure Generation", *The Journal of Textile Institute*, 103 (6), 2012, 636-642, (Impact factor = 0.725), ISSN 0040-5000.
6. M. Bera, R. Chattopadhyay, D. Gupta, "The effect of fibre blend on comfort characteristics of elastic knitted fabrics used for pressure garments", *Journal of The Institute of Engineers (India): Series E*, 95(1) 2014, 41-47, ISSN: 2250-2483.
7. M. Bera, R. Chattopadhyay, and D. Gupta, "Effect of linear density of inlay yarns on structural characteristics of knitted fabric tube and pressure generation on cylinder", *The Journal of Textile Institute*, 106, 2015, 39-46, (Impact factor = 0.725), ISSN 0040-5000.
8. M. Bera, R. Chattopadhyay, D. Gupta, "Influence of linear density of inlay yarn on pressure generation on human body" *Journal of Industrial Textile*, 46(4), 2016, 1053-1066. (Impact factor=1.120), ISSN 1528-0837
9. M. Bera, P. Paul, "Influence of weave design on the properties of fabric", *Milliand International*, March, 2017, Vol.23, Page 27-29.

Paper presentations

1. M. Bera, R. Alagirusamy and A. Das, "Influence of Coupling Agents on Jute Fibre Composites", *International conference of PPS-25 (Polymer Processing Society- 25th annual meeting)* Goa, India, 4th March, 2009.
2. M. Bera, D. Gupta and R. Chattopadhyay, "Studies on Pressure Stockings", 23rd national convention of textile engineers, New Delhi, India, 26-27th March, 2010.
3. M. Bera, D. Gupta and R. Chattopadhyay, "Studies on Pressure Stockings", I²Tech, IIT Delhi, New Delhi, India, 24th April, 2010.

4. M. Bera, D. Gupta and R. Chattopadhyay, “Studies on Pressure Stockings”, International conference of healthcare and hygiene textiles and clothing, HEAT 2010, Coimbatore, India, 30-31st July, 2010.
5. M. Bera, D. Gupta and R. Chattopadhyay, “Studies on Pressure Stockings”, The 39th textile research symposium, IIT Delhi, New Delhi, India, 15-16th December, 2010.
6. M. Bera, R. Chattopadhyay and D. Gupta, “Influence of Inlay Yarn Pretension on the Characteristics of Knitted Elastic Fabric Used in Pressure Garment”, The 11th Asian Textile Conference, Daegu, South Korea, 1-4th Nov, 2011.
7. R. Chattopadhyay, M. Bera and D. Gupta, “Deformation behaviour of power net and weft knitted elastic fabrics”, The 41st Textile Research Symposium, Guimaraes, Portugal, 12-14th Sept, 2012.
8. R. Alagirusamy, A. Das and M. Bera, “Interfacial properties of jute-pp composites- influence of coupling agents”, 1st International conference on natural fibres, Guimaraes, Portugal, 9-11th June, 2013.
9. M. Bera, R. Chattopadhyay, D. Gupta, “A field study on use of pressure garments in local hospital”, International Conference On Emerging Trends In Traditional & Technical Textiles, NIT Jalandhar (India), April 11th - 12th 2014.
10. M. Bera, R. Chattopadhyay, D. Gupta, “Effect of covering on spandex yarn”, International Conference On Technical Textiles and nonwovens, IIT Delhi (India), November 6th - 8th Dec 2014.
11. M . Bera, “Study on tuft withdrawal force and compressibility of hand tufted carpet”, International Conference On Technical Textiles and nonwovens ICTN 2018, IIT Delhi. New Delhi, (India), December 6th - 8th 2018.

Student Guidance

B.Tech Projects

Sl. No.	Year	Title
1	2014-15	Study on the compressional behaviour of hand tufted carpet
2	2014-15	Influence of weave design on the characteristics of woven fabric
3	2015-16	Study on primary backing fabric of hand tufted carpet
4	2015-16	Study on dimensional property of single jersey fabric
5	2016-17	Recycling and Reusing of fibrous waste into composite material
6	2016-17	Development of handloom carpet in terry-leno structure
7	2016-17	Preparation of acoustic board by carpet waste (bhujbun)

8	2017-18	Study on Acoustic Material from Carpet Waste and Its Analysis
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Scholarship and awards

- Scholarship from MHRD during M.Tech studies 2006-2008
- Scholarship from MHRD during Ph.D studies
- 29th rank (score 406) in GATE 2006 Examination.
- 3rd rank in poster presentation at 23rd national convention of textile engineers, New Delhi, India, 26-27th March, 2010.
- Bronze medalist at Calcutta University in the year of 2003 for 3rd rank in “Jute and Fibre Technology”.
- Post Doctoral Fellowship to Women Candidates from UGC