

Faculty Profile

Faculty Name : Dr. Rajat Kumar Baldua

Designation : Associate Professor

Qualification: PhD (Tech.), IIT Delhi, M.Tech (Hons.) Textile Technology, B.Tech (Textile Technology)

Current Address : 554, Krishna Vihar, B K kaul Nagar , Ramnagar-Ajmer, 305004

Phone 1 (office) : 9650221790

Phone 2 (office) : 9650765445

Email : rkbiitd.textile@piet.co.in

Area of Interest: Technical Textile, Garment Manufacturing, Texturizing, Textile Testing, Fiber Science

Experience:

- **Teaching :** 4 years
- **R & D Organization / Industry :** 5 Year

Other:

Research Publications

1. Journals:

1. International: 7

2. Conference / Seminar / Symposia etc.:

1. International: 1

2. National: 1

3. Books / Monographs / Manuals (including year & publisher): NA

Professional Membership: Textile Association of India (TAI)

Main Courses Taught:

- **P.G. :** Textured Yarn Technology, Advance Yarn Manufacturing
- **U.G. :** Fiber Science, Yarn Manufacturing, Textile Testing, Process control in Spinning and Weaving, Garment Manufacturing Technology, Technical Textile,

Reviewer for following International Journal: N. A.

Publications:

International Journal:

Baldua, R. K., Rengasamy R. S., and Kothari, V. K., (2016) Effect of feed filament fineness and air-jet textured process variables on compressional properties parameters on yarns properties, Indian Journal of Fiber & Textile Research, Vol. 41, No. 1, pp 47-54

Baldua R. K., Rengasamy R. S., & Kothari V. K., (2015) Effect of feed yarn parameters on air-jet textured yarn properties, Fibers and Polymers, Vol. 16, No. 2, pp 463-470

Baldua R. K., & Kothari V. K., & Rengasamy R. S. Effect of feed filament fineness and process parameters on air-jet textured yarns properties, Journal of Textile Institute, 105 (11), 2014,1186-1192.

Baldua R. K., Rengasamy R. S., & Kothari V. K., Comparison of artificial neural network and regression models for prediction of air-jet textured yarn properties, Indian Journal of Textile & Fiber Research, 39 (2), 2014, 157-162.

Tyagi G. K., Bhowmick M., Bhattacharya S., & **Kumar R.**, Effect of spinning condition mechanical and performance characteristics of cotton ring and compact-spun yarns, Indian Journal of Textile & Fiber Research, 35 (1), 2010, 21-30.

Tyagi G. K. & **Kumar R.**, Influence of spinning variables on migration parameter of compact and ring-spun yarns, Indian Journal of Textile & Fiber Research, 34 (4), 2009, 333-337.

In Progress:

Burhanpurkar S., Purwar, R., and **Baldua R. K.** (2019) Banana pseudostem sap as bio-mordant for dyeing of silk with celosia flower, Fibers & Polymers (Communicated)

Baldua, R. K., Rengasamy R. S., and Kothari, V. K., (2019) Effect of feed fibre/filament parameters on compressional properties of air-jet textured and ring spun yarn fabrics, Indian Journal of Fiber & Textile Research (Communicated)

Baldua, R. K., Rengasamy R. S., and Kothari, V. K., (2019) Effect of some feed filament parameters and weave on compressional properties of air-jet textured yarn fabrics, Indian Journal of Fiber & Textile Research (Accepted for Publication)

International Conferences:

Analysis of Input Parameters on Output: Regression & Contribution Analysis in Air Jet Texturing Process, International Conference Samantrana-2017 organized by SVVV University Indore, on November 2017.

National Conferences:

3D body scanning technology with application to Fashion Industry, National Conference Texcon-2018 organized by SVITT of SVVV University Indore, on 3 & 4 March 2018.

PhD Thesis

- Completed: NIL

M. Tech. Thesis

- List

Books

- List

Administrative Contribution:

1. Head of the Department of Textile Engineering Department at PIET, Panipat
2. Organised National Conference in the area of Textile Engineering supported by DRDO, MOD, Government of India

Awards:

- TAI support Award for Academic contribution

Foreign Visits:

- List