**Dr. K B RAVINDRA M. Tech. (Textile Tech), Ph.D. (Textile Tech)**

# Associate Professor HOD (in-charge)

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# RESEARCH INTEREST

Textile Testing, Textile Finishing, Fabric Structure & Design, Weaving

**TEACHING EXPERIENCE: 32 years**

* Worked as In charge HOD from July 2020 to July 2022
* Presently working as Associate Professor from 01-08-2012 to till date
* Worked as Assistant Professor 01-08-2007 to 01-08-2012
* Worked as senior lecturer from 01-08-2004 to 01-08-2007
* Worked as Lecturer from 04-12-1987 to 01-08-2004

# EDUCATION

* **Ph.D.** in Textile Technology from Visvesvaraya Technological University, Belagavi, in 18th March 2019.
* **M. Tech.** in Textile Technology from AC Tech., Anna University, Chennai, March 1993
* **B.** **Tech.** in Textile Technology from BIET, Davnagere, Mysore University, Mysore, 1987

# PROFESSIONAL MEMBERSHIP:

* Member of Indian Society for Technical Education (ISTE)
* Member for Institute of Engineers (IE)

# PUBLICATIONS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Title with**  **Page Nos.** | **Journal details** | **ISSN/**  **ISBN**  **No.** | **International /National** |
| 1 | Fabric properties and garment handle | Indian Textile Journal | June 1996 | National |
| 2 | Bioactive antimicrobial agents for finishing of textiles for health care products 706–717 | The Journal of The Textile Institute | 2015, Vol. 106, No. 7, | International |
| 3 | Study of Antimicrobial Properties of Fabrics Treated with Ocimum Sanctum L (tulsi) Extract as a Natural Active Agent 619–627 | Journal of Natural Fibers | 2016, VOL. 13, NO. 5, | International |
| 4 | Antimicrobial Properties of Cotton and Polyester/Cotton Fabrics Treated with Natural Extracts | Asian Journal of Textile | 11(1):1-6,2021 | International |
| 5 | Investigation of Antimicrobial activities of fabrics dyed with plant based natural dyes | Colourage | 1. Vol. 118 (8): Aug. 2021: 40-48 | International |
| 6 | Use of essential oils as bio active substances for antimicrobial finishing of fabrics | Indian Journal of Fibre & Textile Research | Vol. 47, December 2022, pp. 464-467 | International |

# PAPERS PRESENTED IN CONFERENCES, SEMINARS, WORKSHOPS, SYMPOSIA

|  |  |  |  |  |
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| **Sl.**  **No.** | **Title of the paper presented** | **Title of**  **Conference /**  **Seminar** | **Organised by** | **International /National** |
| 1 | Organisation of weave room | NCUTE EXtn. Program on “Shuttle less loom’June 2002 | BIET, Davangere | National |
| 2 | The effect of microwave radiations on Mechanical Properties& Dyeing behavior of DCH -32 Cotton fibres | UGC Sponsored national conference on Atomic physics, Molecular Physics & X-Ray Crystallography 8-10, Jan 2015” | Vijaya College Bangalore, | National |
| 3 | Study of fabric hand of polyester/cotton & polyester / viscose fabrics using low cost Fabrofeel equipment | International conference on “Instrumentation” 19-21 Dec. 2004 | Institute of Tech., Pune | National |
| 4 | Salt free dyeing – A new method of dyeing of modal/cotton blended fabrics with reactive dyes. | 4th International Conference on Cellulosics: Colouration, Innovations & Regulations on 1st June 2007 | The Society of Dyers &Colourists (SDC), Mumbai Region | National |

# SHORT TERM COURSES/WORSHOPS

|  |  |  |  |  |
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| Sl No. | **Attended** | | | |
| Name of the Course /  Summer School | place | Duration/Period | Sponsoring Agency |
| 1 | Short term course on “Total quality control management in textile industry – online & offline process & quality control equipment” | BIET, Davangere | 12-05-1993,  1 day | Continuing education programme, MHRD, Govt. of India |
| 2 | Training programme on “Sulzer projectile Weaving” | Sulzer India Ltd., Pune | 8th & 9th Dec-1997,  2 days | -- |
| 3 | Short course on “Application of statistical quality control” | DCM Davangere | 2nd March to 14th March 1998  14 Days | -- |
| 4 | NCUTE pilot programme on Weving I: Shuttle looms- | Dept. of Textile Technology IIT, New Delhi | 2nd -Nov. 1999 to 4th Nov. 1999,  3 days | NCUTE, New Delhi |
| 6 | NCUTE pilot programme on “Latest textile machines used globally” | BIET, Davangere | 6th Oct. to 9th-Oct.2001,  4 days | NCUTE, New Delhi |
| 8 | NCUTE Extension programme on “Information technology in textiles” | BIET, Davangere | 5th& 6th Jan 2001  2 days | NCUTE, New Delhi |
| 9 | Certificate course on “Computer Aided Textile Designing” | PSG Polytechnic, Coimbatore | 01st June 2001 to 15th June 2001,  15 days | -- |
| 11 | NCUTE pilot programme on “Developments in wet processing of garments and knit goods” | BIET, Davangere | 9th to 11th Jan 2004,  3 days | NCUTE, New Delhi |
| 12 | NCUTE pilot programme on “Exposure of textile teachers to cotton industry” | DKTE’s Textile & Engineering Institute, Ichalkaranji | 10-12, July 2003,  3days | NCUTE, New Delhi |
| 13 | Workshop on “Effective Teaching in Textile Physics & Testing (TEQIP)” | DKTE’s Textile & Engineering Institute, Ichalkaranji | 29th& 30th Sept. 2006,  2days | TEQIP |
| 14 | Silver Jubilee International Conference | DKTE’s Textile & Engineering Institute, Ichalkaranji | 16thFeb.to 18th Feb. 2007,  3 days | -- |
| 15 | QIP Short term course on “Emerging Trends in Fibres and Textiles” | Dept. of Textile Technology IIT, New Delhi | 6th July to 10th July 2009,  5 days | QIP |
| 16 | Attended “Advanced Ecological Techniques in textile chemical processing for sustainable development” | K. S. Rangasamy College of Technology, Tiruchengodu, TM | 23-29 April, 2021 | Induction/Refresher programme |
| 17 | Attended “Innovations in Textiles – Products and Processes" | DKTE Society's Textile & Engineering Institute, Ichalkaranji | 2nd and 3rd September, 2021 | ITPP -21 |
|  | **Conducted /Organized :** | | | |
|  | Name of the Course /  Summer School | Place | Duration/Period | Sponsoring Agency |
| 1 | National seminar on “High Technology Knitting for Indian Textile industry”. Worked as coordinator | BIET, Davangere | 2 days  March, 1996 | AICTE, New Delhi |
| 2 | NCUTE seminar on “Unconventional weaving”. Worked as coordinator | BIET, Davangere | 2 days  March, 1996 | AICTE, New Delhi |
| 3 | Organised webinar on “Body armor; threat, mechanism and manufacturing” | BIET, Davangere | 19-6-2021 | Textile Forum, Dept. of Textile Tech |
| 4 | Organised webinar on “Fashion and circular economy” | BIET, Davangere | 26-6-2021 | Textile Forum, Dept. of Textile Tech |
| 5 | Organised webinar on “Smart Textiles for health care and wearable electronics” | BIET, Davangere | 26-6-2021 | Textile Forum, Dept. of Textile Tech |

**SPONSORED PROJECTS**

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| **Sl. No.** | **Title** | **Responsibility** | **Agency** | **Grant /Amount Mobilized (Rs. Lakh)** |
| 1 | Field testing and development of accessories for pre-loom operations in Karnataka | Project assistant | DST, New Delhi | 8.76 |
| 2 | Optimisation of Knitting parameters of silk knitted fabrics | Project assistant | SDC, Bangalore | 14.84 |
| 3 | Development of knitted fabrics from silk yarn and its blends | Project assistant | DST, New Delhi | 13.15 |
| 4 | Design & development of fabric handle equipment | Project assistant | KSCST, Bangalore and AICTE, New Delhi | 1.19 |
| 5 | Development of secondary motions for pit loom at Kancheepuram | Project assistant | SDC, Bangalore | 1.91 |
| 6 | Differentiation of Khadi and other textiles | Project assistant | KVIC, Mumbai | 9.94 |
| 7 | GI registration for Guledgudd Khana fabric | Coordinator | Textile Committee, Mumbai | 0.85 |
| 8 | Worked as one of the coordinators for the project “Centre of excellence” and “Sewing machine operator for local candidates” | Co-Coordinator | Ministry of Textiles, Department of Handloom, Govt. of Karnataka and Textiles, Bangalore | 50.00 |

**TRAINING COURSES, TEACHING- LEARNING – EVALUATION, FDP**

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| --- | --- | --- | --- |
| **Sl. No.** | **Programme** | **Duration** | **Organized by** |
| 1 | Completed course on “Computer Fundamentals, MS Office, Windows 95 & Internet” | 28th Feb -7th Match 2001,  7 days | IGI Computers, Davangere |
| 2 | Training programme on “Wonder weaves Textile Design software” | 01-06-2001, 15 days | BIET, Davangere |
| 3 | Certificate course on “Computer Aided Textile Designing” | 01st June 2001 to 15th June 2001,  15 days | PSG Polytechnic, Coimbatore |
| 4 | Training programme on TUKATECH software in “Computer Aided Garment Designing” | 04-05-2003,  7 days | BIET, Davangere |

# RESPONSIBILITIES

* Department (Programme) NBA Coordinator
* Worked as Department Placement Officer
* Worked as office superintendent, VTU examinations
* Working as Coordinator – BIETech Voice
* In-charge -Textile Testing lab
* Research project coordinator
* Member, BOE, VTU

# PROJECTS GUIDED:

**For B.E.: 84 batches**

**For M. Tech.: 10 students**

**SUBJECTS TAUGHT**

**For B. Tech:** Weaving, Fabric structure and design, Textile testing, Chemical processing

# For M. Tech: Advances in fabric formation, advanced apparel testing and quality control, Advanced wet processing, Advanced silk technology, Advanced apparel production technology

**PROJECTS**

# Ph.D. Thesis: “Eco-friendly Antimicrobial Finishing of Cotton & Cotton /Polyester Blended Fabric using Bio-active Agents Based on Natural Products”

**Description:** Antimicrobial textiles are a large research focus in the textile finishing in textile industry. There is an apparent need for production of washable and durable antimicrobial textile products. Most of the synthetic antimicrobial agents presently used in the finishing of textile products are toxic, can cause adverse effects on human health, and have environmental issues. Hence the research on environmental friendly and non-toxic natural bioactive compounds with antimicrobial properties and their application on various textile products gain considerable attention. These can be used as an alternative to synthetic antimicrobial agents for textile applications, especially in medical and health care textiles. This research work was aimed to study antimicrobial functionality of cotton and polyester/cotton fabrics treated with natural bioactive substances extracted from various plants, herbs, spices, natural dyes etc., having medicinal properties for the development of health care products.

* **Project during post-graduation:** **“Effect of heat on wool fibre structure by NMR studies”**

**Description:** The wool fibres undergo structural changes when heat treated at different temperatures. In this study Indian wool was scoured by using carbon tetrachloride by soxhlet apparatus and heat treated at different temperatures on an electric furnace. The changes in the physical and molecular structures were studied using NMR technique.

# Project during Graduation: “Development of stop motions to sectional warping machine”

**Description:** Conventional type sectional warping machine used by small scale industry is not provided with a stop motion device and whenever an end break or tape length is finished the machine need to be stopped. In the absence of this device the machine operator has to constantly watch the machine and stop manually whenever an end break or tape length finished. Sometime the machine continues to run and defects occur and the machine needs to be stopped for long time to set right the machine. Hence a feeler mechanism was fitted to the creel near the guide so that whenever an end break the feeler drop and electric contact initiate a relay and contactor and stop the machine immediately. Same way whenever a set tape length is finished the electric counter initiate the relay and contactor to stop the machine. The working of stop motion device was found be effective and achieved the purpose.

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