

Dr. DINESH Y.N. B Tech. (Tex. Tech.), M. Tech. (Fib.Sc. and Tech.), Ph.D. (Tex.Tech.)

Professor and Head

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RESEARCH INTEREST

Fibre Sc.Tech, Bio-Composites, Polymers for fibre production, High performance fibres and Structure and property correlation in textile fibres.

TEACHING EXPERIENCE: 30 years and 3 years in research

- Presently working as Professor and head of the department from April 2022 in Textile Technology Dept., BIET, Davangere to till date
- Worked as Assistant Professor from August 2007 in Textile Technology Dept., BIET, Davangere to march 2022.
- Worked as Senior Lecturer June 2005 to July 2007 in Textile Technology Dept., B.I.E.T, Davangere
- Worked as Lecturer June 1995 to May 2005 in Textile Technology Dept., B.I.E.T, Davangere
- Worked as Lecturer March 1993 to May 1995 in Textile Technology Dept., REC. Hulkoti-Karnataka.

INDUSTRIAL EXPERIENCE

- Worked as a Quality Control officer at Gokak textile Industries- Gokak. From Jan. 1991- June 1991.

EDUCATION

Ph.D. in Textile Technology from Visvesvaraya Technological University, Belagavi during the year 2018-19.

M.Tech. in Fib. Sc. and Tech. from IIT-Delhi during the year 1993 With CGPA of 9.33

B.Tech. in Textile Technology. From Bangalore University during the year 1990 With II rank

PROFESSIONAL MEMBERSHIP:

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

PUBLICATIONS

BOOKS: Written a short term course on Recent Advances in Man Made Fibre Production under Continuing Education Programme sponsored by AICTE -Delhi

In International/National Journals:

1. *Ravindra, Y N Dinesh and S M Chandrasekhara* 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**
2. *Ravindra, Y N Dinesh and S M Chandrasekhara* **Antimicrobial properties to cotton and polyester/cotton fabrics treated with natural** **Asian Journal of Textiles. P 1-6 , 29-Sept. 2021**
3. *Ravindra, Y N Dinesh and S M Chandrasekhara.* **Investigation of antimicrobial activity of fabrics dyed with plant based natural dyes** Colourage ISSN: 0010-1826 Vol.: 118, Issue: 8, P 40-48 Aug. 2021
4. *Dinesh Y.N.* **Performance Properties of Flame Retardant Silk Fabrics** Colourage March 2010.
5. *Dinesh Y.N. Babu K.M.* **Characterization and development of Bio- Composites from Jute and Coir** (pp.334-345)- International J. of Management, IT and Eng. July, 2018
6. *Dinesh Y.N. Babu K.M.* **Characterization and Development Of Bio- Composites From Sisal and Areca Fibres** (pp.143-153). International J.of Eng. And scientific Res. April, 2018.
7. *Dinesh Y.N. Kulkarni V.G.* **Volume Relaxation of Amorphous Polymers** Asian Textile Journal. January, 2004. (pp. 74-78).
8. *Dinesh Y.N* **Inorganic Fibers for Technical Textiles**, The Indian Textile Journal. August 2003, (pp. 74-78).
9. *Dinesh Y.N, V,G. Kulkarni,* **Vinyl Pyridine Grafting on PAN Fibers** The Indian Textile Journal. August 2003.(pp.17-22).

In International and National Conferences:

1. *Dinesh Y.N. Babu K.M.* **Production of Bio- Composites from some Natural Fibres** International Conference on INDUTECH. PSG Coimbatore-2012
2. *Dinesh Y.N. Babu K.M.* **Characterization of some Natural Fibres for the production of Bio Composites.** Textile and Apparel Industry- Contemporary Issues to Address in Coming Years. Institute of Engineers. Bengaluru-2011
3. *Dinesh Y.N. Ravindra K.B.* **Studies on Fabric Hand of P/C and P/V using Low Cost Fabrofeel Equipment**, 59th All India textile Conference. Global Competitiveness- Indian ProspectiveSSM College of Eng. Tamil Nadu.2008.

4. *Dinesh Y.N.* **An over View of Volume Relaxation of Amorphous Polymers** Emerging Trends in Electro Chemical, Textile and Polymer Industries. Alagappa University Karaikudi,1996.
5. *Dinesh Y.N.* **Development of New Textile Products for Textile Industry** NCUTE Extension Program.BIET-Davangere 1998

SHORT TERM COURSES/WORSHOPS

Attended

- 1) NCUTE- Manmade fibres-1. IIT- Delhi 1999
- 2) NCUTE- Manmade fibres-2 IIT- Delhi-2000.
- 3) NCUTE –Weaving- BIET Davangere-2000
- 4) NCUTE – Smart textiles PSG, Coimbatore- 2002
- 5) NCUTE- Technical textiles SECE- SURAT-2002
- 6) Wonder weaves systems (work shop). BIET-2008
- 7) NCUTE- Garment wet processing BIET 2004.
- 8) Effective teaching in textile physics and testing DKTE. Ichal karanji-2006
- 9) International textile conference DKTE, Ichal karanji-2007
- 10) STTP- Industrial pollution control BIET-2008
- 11) Recent trends in Nano Tech. BIET 2008
- 12) National conference- IE-Karnataka division-2 Textile and apparel industry Banglore-2011
- 13) International conference. Industrial textiles. PSG,Coimbatore- 2012
- 14) Training by Wonder weaves systems at BIET-2002
- 15) Training by TUKATECH, INC at BIET-2003
- 16) Work Shop on Research Methodology at BIET-2015
- 17) Work Shop on Research –ADD- ONS at BIET-2014
- 18) FDP Courses through NPTEL-4 and one non FDP course.
- 19) Online webinars and FDP from 2020-2023.

Organized

1. Worked as Co-Coordinator for National Seminar on Recent developments in wet processing of Silk organized by BIET at IE Building Bengaluru
2. Worked as Convener and Member of Organization committee for Annual National level Technical Students Symposium organized by Dept. of Textile Tech. BIET from2002-2022.

Sponsored Research Projects

Completed Projects

Sl. No.	Title	Agency	Period	Grants (Rs. Lakh)
1.	Setting up of Centre of Excellency and Skill Up- gradation in Textiles(Working as one of the coordinators)	Dept. of Hand Loom and Textiles. Govt. of Karnataka.	2017-2019 (03 Years)	50.00

Sl. No.	Title	Agency	Period	Grant (Rs. Lakh)
1.	Development of Eco-Friendly Crease Resistant Finishes for	AICTE- TAP-TECH project	2003-2004 (02 Years)	4.6

	Cotton Fabrics (co-investigator)			
2.	Eco-Friendly Bio-Composites from Natural Fibres (co-investigator)	AICTE- RPS project	2008-2009 (02 Years)	8.0
3.	Fabro –Feel, A computerized Equipment to measure Fabric Handle(project committee member)	AICTE- RPS project	2004-2005 (02Years)	7.0

RESPONSIBILITIES

- Working as dean academic, NAAC coordinator and IQAC member
- Working as BOS chairman(VTU-Textile/Silk board)
- Department Bitech voice coordinator
- Worked as Editor for Bitech-voice Institute's Newsletter and Technowave magazine.
- Nodal officer for Covid-19 cell of Institute
- Coordinator for Criteria -5 (NBA) of Department
- Worked as Convener of Textile forum OF institute
- Worked as project member for various funded projects of Department
- Worked as BOS and BOE member of VTU, Kuvempu, Gulbarga universities
- Taken active part in preparation of Syllabus of Textile Technology both (UG and PG) Course

Project Guided:

For B.E.: 30batches

For M.Tech. : 8 students

Ph. D.- 2 students (guiding)

SUBJECTS TAUGHT

For B.Tech.

Natural and manufactured fibres, Textile fibre Physics, Textile Statistics, Silk technology, Fibre reinforced composites, Textile mechanics and Calculations, Textile Testing, Preparatory Wet Processing and Technical textiles.

For M.Tech.

Advanced fiber Physics, Advanced Manufactured Fibre Technology, Advanced Apparel and textile Testing.

Ph.D. Thesis: “Studies on Production and Properties of Bio-Composites Produced from some Natural Fibres”

Due to extensive discovery and abundant availability of plastic materials derived from

petroleum based resources our society has attained enormous advances in quality of life. As with any other technologies, anticipated negative secondary effects are produced in plastic technology also. The persistence of petroleum based polymeric materials in environment, unavailability of landfill space, concerns over toxic emissions resulting from incineration, negative effects on to human and animal's health from entrapment or ingestion of these materials have forced the academicians, scientists and industrialists to find more environmental friendly alternative materials. The depletion of fossil fuel based resources and environmental regulations have added to this effort of finding new materials that are environmental friendly and independent of fossil fuels. This complex problem can be solved by using bio-based materials.

Because of increasing environmental awareness and rules of legislative authorities, critical discussion is being made about preservation of natural resources and recycling of these resources. The harmful effects of traditional composite structures made of glass, aramid, carbon and other fibers are being critically discussed in recent years. Natural fibers are presently emerging as possible alternatives for these fibers in production of composite materials. Advances in genetic engineering, natural fiber technology and composite science offer ample of opportunities for use of materials from renewable resources with increased support for global sustainability. The major advantage of composites is that they can be tailored and designed to meet the vast requirements of the products produced from them. As natural fibres are cheap, biodegradable and sustainable, composites produced from these bio-fibres are the best alternative solution for the serious environmental problems.

The present research was intended to produce bio-composites from natural fibres and to study various properties of bio-composites produced from natural fibres. Five different natural fibres viz – Jute, Sida Rhombi folia (SRF), Sisal, Coir and Areca fibres were used for the production of bio-composites.

M.Tech. project: Some studies on Physical Ageing and Crystallization of PET

B.Tech. project: Advanced Printing on Cotton Fabrics

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**Research Articles Published in Journals/Conference Proceedings in the
Academic Year: 2021 – 22**

Name of the Faculty	Title of the Article	Title of the Journal / Conference	Volume & Issue
K.B. Chandrasekhara Anish Y.N.	extracts		ISSN: 1819-3358 Issue:1,
K.B. Chandrasekhara Anish Y.N.	Investigation of antimicrobial activity of fabrics dyed with plant based natural dyes		ISSN: 0010-1826 Vol.: 118, Issue: 8, P 40-48 Aug. 2021
Chhokra, Brojeswari Das. V. Padaki. And K. .	Comparative Studies on Thermal Comfort Properties of Eri Silk, Mulberry Silk, Wool and Linen Fibres	Journal-Institute of Engineers India	Series 102, 2-4-2021, 145-154.

