

Central Silk Board (CSB) Sponsored
15 Days Faculty Development and Seri-Entrepreneurial
Training Programme (FDSTP)

On
“Sustainable Practices in Sericulture and
Surface Enhancement of Silk fabric”

17th to 31st January, 2025

Registration Form

Name:.....

.....

Designation :.....

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Institution name & Address :

.....

WhatsApp No.....

E-Mail.....

Signature of the Participant

(Submission of the Registration Form via e-mail)

ELIGIBILITY & REGISTRATION

Faculties, Scientists, Research Scholars, Entrepreneurs from Sericulture, Textiles & Fashion can apply for the training program. On the completion of the program on all the days, participants will be awarded a Certificate of participation.

Registration fee : Rs. 3500.00 + 18%GST

TA, Boarding & Lodging facility : TA (Travelling Allowance) should be afforded by participants. Boarding & Lodging facility will be arranged by the training center on payment basis.

Venue:Department of Textiles & Apparel Designing, College of Community Science, Assam Agricultural University, Jorhat-785013, Assam, India

Organizing Committee:

Chief Patron

Dr. Bidyut Chandan Deka

Hon'ble Vice Chancellor,
Assam Agricultural University, Jorhat, Assam

Patrons

Dr. Kartik Neog, Director, CMER-TI,
Lahdoigarh, Jorhat, Assam, CSB,
Ministry of Textiles: Govt. of India

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AAU, Jorhat, Assam, India

Programe coordinators

Dr. Sunita Boruah, Assistant professor,
CCSc., AAU, Jorhat

Dr. Manjunath RN, Scientist,
CSB-CMERTI, Lahdoigarh Jorhat Assam

Programe co-coordinators

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Extension Division, CSB-CMERTI

Members

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Principal scientist & Professor,
CCSc., AAU, Jorhat

Dr. Rickey Rani Baruah, Assistant professor,
CCSc., AAU, Jorhat

Mr. Roshan Lal Meena, Scientist, CSB-CMERTI

Address for Communication

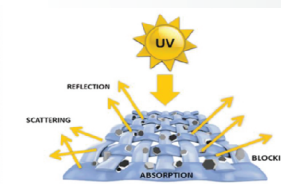
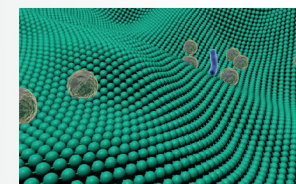
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**Faculty Development and
Seri-Entrepreneurial Training Program (FDSTP)**

on
“Sustainable Practices in Sericulture
and Surface Enhancement of Silk fabric”



Jointly Organized by

**Department of Textiles & Apparel Designing
College of Community Science
Assam Agricultural University
Jorhat-785013, Assam, India**

&

**Central Muga Eri Research and Training Institute
(CMER & TI)**

**Lahdoigarh- 785700, Jorhat, Assam
Central Silk Board, Ministry of Textiles :
Govt. of India**

Department of Textiles and Apparel Designing, College of Community Science, AAU, Jorhat, Assam

Assam Agricultural University (AAU), the first agricultural institution of its kind in North-East India, focuses on producing globally competitive professionals in agriculture and conducting cutting-edge research in both traditional and frontier areas. Its primary goal is to optimize production techniques and make these innovations accessible to farmers, producers, and traders, emphasizing sustainability, equity, and household food security. Within AAU, the College of Community Science, established in 1973, is dedicated to interdisciplinary studies that enhance community well-being and improve quality of life. The Department of Textiles and Apparel Designing, a core part of this college since its inception, offers undergraduate, postgraduate, and PhD programs, and was renamed from the Department of Clothing and Textiles in 2012 to better reflect its evolving focus. With a curriculum designed to foster scientific and critical thinking, the department explores diverse topics from dyeing and fiber innovation to advanced finishes and texture engineering, emphasizing sustainable practices and the preservation of regional textile heritage. Through a focus on developing socially responsible graduates, the department contributes meaningfully to the textiles, apparel and fashion industry, preparing students to make impactful contributions while adapting to industry trends.

CSB- Central Muga Eri Research & Training Institute (CMERTI)

The Central Muga Eri Research & Training Institute (CMERTI) is a premier R&D institute dedicated to advancing Muga, Eri, and Oak Tasar sericulture. Operating under the Central Silk Board, Ministry of Textiles, Government of India, CMERTI has a comprehensive approach to supporting both on-farm and post-cocoon sectors for these unique silk cultures. Muga and Eri sericulture are vital rural industries across the Northeastern states and parts of West Bengal, providing sustainable livelihoods in these regions. Oak Tasar culture, practiced

primarily in Manipur, also holds significant socio-economics importance. CMERTI's research and development initiatives address diverse needs, promoting productivity, quality improvement, and technological advancement across these silk varieties. The main mission is to empower sericulture farmers, processors, and artisans by providing state-of-the-art solutions and training to foster growth and sustainability in India's silk industry.

About the training program

The training program "Sustainable Practices in Sericulture and Surface Enhancement of Silk fabric" addresses the integration of sustainability in silk production, from environmentally responsible sericulture methods to advanced surface enhancement techniques of silk fabric. It provides an in-depth examination of the biological life cycle of mulberry silk (*Bombyx mori*), eri silk (*Philosamia ricini*), emphasizing sustainable mulberry, eri cultivation and eco-conscious practices, such as the use of organic fertilizers, pest management, and water-efficient irrigation systems. Furthermore, the program delves into cutting-edge techniques for surface enhancement of silk fabric, including the application of natural dyes, bio-based mordants, and sustainable finishing treatments to improve its functional and aesthetic properties. By linking these practices to the structural integrity and functional performance of the silk fabric, the training underscores the role of sustainable innovation in reducing environmental impact while meeting the global demand for eco-friendly textiles. Additionally, it highlights current trends and scientific advancements in sericulture and silk fabric, aiming to align production processes with international sustainability standards.

Objectives

- ❖ To explore sustainable practices in sericulture
- ❖ To enhance silk fabrics with innovative techniques and quality evaluation
- ❖ To identify challenges and opportunities in integrating sustainability with silk production and enhancement

Expected outcomes

1. Exploration of Sustainable Practices in Sericulture

Participants will gain a deep understanding of sustainable sericulture practices, including organic farming, biodiversity conservation, and integrated pest management.

2. To enhance silk fabrics with innovative techniques and quality evaluation

Participants will acquire expertise in advanced surface enhancement techniques, including eco-friendly dyeing methods, nanotechnology applications, and bio-based coatings on silk fabric.

3. Assessment of the Impact of Surface Treatments on Silk Fabric Performance

Participants will develop skills in evaluating the performance characteristics of silk fabrics, such as durability, water resistance, and colorfastness after surface treatments.

4. Identification of challenges and opportunities in Integrating Sustainability with Silk Production and Enhancement

Participants will enhance their ability to identify and address challenges in implementing sustainable practices within the silk industry, such as economic constraints and market acceptance.

Highlights of the FDST Programe

- Hands-on experience on sericulture practices & surface enhancement of silk fabric
- Demonstration of Nano-technology application on silk fabric
- Exposure to Advanced nano-technology laboratory resources
- Methods of high-quality journal manuscript preparation for publication