

# INFORMATION BROCHURE



**ICAR Sponsored Winter School**  
On

## **Advances in product diversification and waste utilization of natural fibers**



December 3-23, 2019

Course Director  
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Organized by



**ICAR-National Institute of Natural Fibre Engineering and Technology**  
(*Erstwhile ICAR-NIRJAFT*)  
12 Regent Park, Kolkata-700040, West Bengal

### BACKGROUND

Natural fibres cater to the various requirements of the people in our country apart from creating large employment opportunities and contributing significantly to the national exchequer through export. This sector occupies an important place in the national economy as it supports nearly six million farm families. Besides, industry provides direct employment to above two lakhs industrial workers and livelihood to another 2.5 lakh people in the tertiary and allied sector.

Natural fibres like banana, sisal, flax, ramie, sunnhemp, coconut, pineapple leaf fibre and yak hair have separate characteristic with immense potentialities for creating a healthy, sustainable and environment-friendly choice of livelihood for the people. But the fibres are scarcely used as these are not available in plenty due to lack of awareness and non-availability of appropriate extraction technology. The utilization of the residual biomass after extraction of these fibres to value added products may be exploited to make the whole process commercially viable and attractive. Product diversification from natural fibres and waste utilization of biomass will help in sustainable livelihood and empowerment of the poor in the rural sector.

With this background, a winter school on “**ADVANCES IN PRODUCT DIVERSIFICATION AND WASTE UTILIZATION OF NATURAL FIBERS**” is being organized with an aim explore the recent advances on development of value added products from natural fibres. This winter school will help to enrich the technical knowledge of the participants on value addition processes on natural fibres through various processing technologies & product diversification. This program will also explore the possibilities and opportunities to promote the natural fibres for the replacement of synthetic fibres in order to sustain the environment.

### ABOUT ICAR-NINFET

ICAR- National Institute of Natural Fibre Engineering and Technology (*Erstwhile ICAR-NIRJAFT*) is a premier research institute under the aegis of Indian Council of Agricultural Research, New Delhi and dedicated to the research of natural fibres leading to the diversified use and industrial growth since 3<sup>rd</sup> January 1939. During the eight decades, the institute has flourished with multifarious disciplines and carved a niche as a centre of excellence on research of Natural Fibre Technology catering to entrepreneurs and industry. Presently, institute is equipped with the state of the art laboratories having sophisticated instruments, equipments, machinery, business incubation, workshop, library, pilot plant along with guest house on the adjoining campus of staff quarters.

## FACULTY

Institute has well qualified and experienced faculty members working in the area of natural fibres from fibre extraction to entrepreneurs' development. In addition, eminent researchers and academicians having knowledge and experience in the proposed area of training will also form a part of the faculty.

## CURRICULUM

A series of lectures and practical demonstrations will cover the advances in product development and waste utilisation on natural fibres in the following themes

- Present status and future perspectives of natural fibres
- Innovation in extraction, processing & waste utilisation of natural fibres
- Recent trends in product development from natural fibre & their marketing
- Utilisation of biotechnology, nanotechnology and plasma technology in value addition of natural fibres
- Protection of Intellectual property, entrepreneurship development through technology commercialisation & business incubation

A visit to nearby jute processing unit & jute growing station is also planned.

## ELIGIBILITY

A total of twenty five (25) participants, who are actively engaged in research and teaching in area of Textile Chemistry/ Textile Technology/ Textile Manufacture/ Jute Technology/ Agriculture Engineering/ Agriculture Chemistry/ Agriculture Microbiology / Textile & Clothing / Fashion Technology and working not below the rank of Scientist/Assistant Professor and equivalent in the concerned discipline in ICAR Institute/Agricultural University /Technical institute / State Government will be eligible. **RA, SRF & Ph.D candidates are not eligible for this course.**

## TRAVELLING ALLOWANCE, BOARDING AND LODGING

The cost of travelling, boarding and lodging of the selected participants will be met out of the grant from ICAR, New Delhi. All the participants will be reimbursed to and fro travel fare for the journey to Kolkata by the shortest route. The payment will be made as per the entitled class of travel, but restricted to maximum of AC-II tier train fare/ bus fare (on producing proof of travel).

Boarding and lodging will be provided freely to the outside participants in institute's guest house on sharing basis and local participants will be provided lunch, inter session tea and course material only.

**Participants are requested not to bring family members with them, as the Institute has limited guest house facilities.** No DA will be paid to the participants.

## HOW TO REACH

Kolkata is well connected by Air, Rail and Road. The institute is located at Near Aurobindo Ashram of Tollygunge area in Kolkata and is about 32 KM from Netaji Subhash Chandra Bose International Airport, 18 KM from Howrah Railway Station and 12 KM from Sealdah Railway Station. Buses and pre-paid taxi can be availed from Railway station and Airport to reach to the guest house.

## APPLICATION PROCEDURE

As per the ICAR instructions, the interested candidates should register and apply through **“Capacity Building Programme (CBP)” portal only:**

1. Visit the website <http://cbp.icar.gov.in> and use “Create New Account” link to create your login ID and Password by providing the all information.
2. The participants are required to take either an Indian Postal Order or a Demand Draft drawn in favour of Director, ICAR-NINFET, Payable at Kolkata for the amount of Rs. 50/- (Rupees fifty only) as registration fee (Non Refundable). Registration fee may also pay through online banking to the institute bank account “ICAR NINFET”, SBI, Tollygunge Branch, IFSC code SBIN0001719 & A/c. No.11129265097.
3. After login, select the **Participate in Training → Winter School → Select “Advances in product diversification and waste utilization of natural fibers”** under approved summer/winter school courses → click on **“Apply”** link.
4. After step-by-step filling and subsequent submission of the application, take a printout of the filled application; get an approval from the competent authority; scan & upload the duly signed application form in CBP Portal and send in filled application along with the registration fee to the Course Director by speed post.
5. **Application without proper details / registration fee/ approval from the competent authority will not be considered.**

## SELECTION OF PARTICIPANT

Participants will be selected as per the criteria laid by ICAR. The complete list of selected participants will be available in website [www.cbp.icar.gov.in](http://www.cbp.icar.gov.in). The selection will be informed to the applicants through e-mail, fax or by post on or before 15<sup>th</sup> November, 2019.

## IMPORTANT DATES

1. Last date for receipt of application (online): 10<sup>th</sup> November, 2019
2. Intimation of selection to participants : 15<sup>th</sup> November, 2019

## CONTACT

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