

INFORMATION BROCHURE



Quality Improvement Programme On Natural Fibre Based Composite Materials and Its Evaluation



April 25-29, 2022

Program Director
Dr. D.B.Shakyawar

Program Co-ordinators
Dr. L.Ammayappan
Dr. P.C.Sarkar
Dr. Niranjan Kumar

Organized by

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

BACKGROUND

Use of glass fibre and synthetic polymers in different technical sectors like automobile, civil and construction has been increased recently. The consumption of glass based products leads to increase the physical dumping after disposal of the products which is a major environmental problem the world facing today. Natural fibre based composite products could be a solution for a growing market and can help stakeholders to meet societal challenges. Exploitation of these materials, with improved properties, will open up new market opportunities, particularly in applications where light-weight and environmental performances are key considerations.

Natural fibres based composite product can be utilized in constructional (as corrugated sheet), furniture (different table top, false roof, divider) and automobile sector (interim trim & dashboard). Institute also has future strategic plans to develop different biocomposite products from other natural fibres in the area of the furniture and automobile.

With this background, a Faculty Development Program on “**NATURAL FIBRE BASED COMPOSITE MATERIALS AND ITS EVALUATION**” is being organized with an aim explore the recent advances on production and evaluation of composite from natural fibres and their biomass. This program will help to enrich the technical knowledge of the participants on a composite with 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 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 3rd January 1939.

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. Institute has developed the methodologies to develop rigid, functional and light weight jute based biocomposite for the replacement of glass fibre based composites. Jute textiles in woven fabric/ non woven fabrics form are utilized as reinforcement with suitable physical or chemical modifications with unsaturated polyester resin by hand laying followed by compression moulding method for the development of biocomposite sheet. It 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 production, processing and evaluation of composite from natural fibres in the following themes

- Concepts of composites
- Properties of natural fibres for the development of composites
- Composite preparation methods
- Evaluation of composites
- Application of composites in various fields

ELIGIBILITY

Participants who are actively engaged in research and developmental activities in the area of natural fibres and composite by Teachers / Scientists/ Entrepreneurs / Industry persons / Research Scholars / PG Students in the area of Engineering / Material Science in UGC approved Institutes / ICAR Institutes/Agricultural Universities /Technical institutes / State Government offices will be eligible to attend the program.

MODE OF TRAINING

The program will be offered through **Hybrid Mode**. Online participants should have proper internet connectivity and computer / Laptop facility to attend the program on whole time basis. The participation in all sessions will be mandatory to obtain the program completion certificate. There is no TA/DA for the offline participants and they are also requested not to bring family members with them, as the Institute has limited guest house facilities.

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

Interested candidates are requested to fill the registration form; get the approval from their competent authority, pay the QIP fee* of **Rs.2500/-+GST (18%)** as **online participation fee** or **Rs.3250/-+GST (18%)** as **offline participation fee** either in the form of demand draft drawn in favour of **Director, ICAR-NINFET** payable at Kolkata or online payment to institute' SBI Bank Account & the details are given below.

Account Name : ICAR NINFET
Bank Name : State Bank of India, Tollygunge Branch
Account No : 11129265097
IFSC Code : SBIN0001719

After payment, submit the scanned copy of the registration form along with payment details to Program Coordinators# either through email or speed post. Application form without proper details / registration fee/ approval from the competent authority will not be considered.

*-There is no program fee for participants from ICAR Institutions.

*-There will be 25% discount in program fee for Research Scholars / PG Students from the recognised institutes in the relevant field.

IMPORTANT DATES

1. Last date for receipt of application : April 20, 2022
2. Intimation of selection : April 22, 2022
3. Program duration : April 25-29, 2022

ORGANISERS

PROGRAMME DIRECTOR

Dr. D.B.Shakyawar
Director, ICAR-NINFET

PROGRAM CO-ORDINATORS#

Dr. L.Ammayappan
Principal Scientist, CBP Division
Dr. P.C.Sarkar
Principal Scientist, CBP Division
Dr. Niranjan Kumar
Scientist, CBP Division

ADDRESS FOR CORRESPONDENCE

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भाकृअनुप-राष्ट्रीय प्राकृतिक रेशा अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
ICAR-National Institute of Natural Fibre Engineering and Technology

प्रशिक्षण पंजीकरण प्रपत्र / Training registration form

प्रशिक्षण शीर्षक Training Title: _____

1. हिन्दी में पूरा नाम :
Full name English :
2. पदनाम / Designation :
3. जन्म तिथि / Date of Birth :
4. प्रवर्ग / Category : सा./ अ. जाति/ अ. पिछड़ी जाति/ अन्य (कृपया निर्दिष्ट करें)
General / SC / OBC / Other (pls specify)
5. विशेष रूप से असक्षम व्यक्ति (दिव्यांगजन) / Specially disabled Person: हाँ (Yes) / नहीं (No)
6. अर्हता / Qualifications :
7. वर्तमान नियोक्ता / संगठन और पता :
Present Employer / Organization & Address
8. लिंग / Sex : (पु) M / (स्त्री) F / अन्य Other
9. ईमेल / Email :
10. मोबाइल क्र. / Mobile no. :
11. शिक्षा/ अनुसंधान/ व्यावसायिक अनुभव
(पिछले 5 वर्षों के दौरान धारित पद) :
Teaching/research/professional Experience
(Mention post held during last 5 years)
12. अगर आपने संस्थान के किसी पिछले प्रशिक्षण कार्यक्रम में भाग लिया है तो उल्लेख करें:
Mention if you have participated in any past training program of NINFET
13. प्रशिक्षण दौरान आवास की आवश्यकता है / Accommodation is required : हाँ (Yes) / नहीं (No)
14. प्रशिक्षण शुल्क भुगतान/ Fees paid in : ऑनलाईन (Online Transfer) / चेक (Cheque) / डीडी (DD)
For Online payment, mention Transaction no and date:

दिनांक / Date: _____

स्थान / Place: _____

प्रतिभागी का हस्ताक्षर / Signature of the applicant