

Training for whom

The programme gives knowledge, competency and hands on experience to fresh degree/diploma holders for the operation of sophisticated equipments. After the successful completion of the course, the candidate may be able to apply for various scientific and technical positions in different organizations and colleges spread across the country.

Methods of Teaching

The theory classes will be taught in English. Smart classroom tools will be used for conducting theory classes and course materials will be given to candidates. Hands on experience in operation and maintenance of sophisticated instruments will be done at the state-of-the-art laboratories.

Faculty

The scientists will teach the theory and take practical classes for the enrolled students.

Selection Procedure

The selection will be purely based on merit and reservation of seats as per GOI rules. The list of shortlisted candidates will be published in the website. The selection of sponsored candidates will be done separately.

Payment Details

The list of selected candidates for different courses will be published in the CSIR NIIST website and they will be intimated by e-mail and the payment to the proposed course should be made by drawing a DD in favour of Director, CSIR-NIIST, payable at Thiruvananthapuram.

Sponsorship

Industries, non-profit making social organizations, state and central Government organizations, academic institutions are welcome to sponsor candidates of their interest.

CONTACT US

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Vision

Envision new challenges and opportunities in areas of core strength of the institution and thereby emerging as:

- Institution of international reputation through symbiotic alliance with industries and academia for high impact science, techno commercially important IP, technologies and products with direct impact on society.
- Pioneers in delivering innovative, cost competitive and environmentally acceptable processing technologies based on the expertise in functional materials, agro-products, bioactive molecules and mineral processing.
- Center of Excellence for advanced materials in energy, security, diagnostics and strategic applications.
- Consultant and service provider to MSMEs and industries thus becoming a solution provider to societal and environmental issues such as (air/water) pollution, waste management, effluent treatment etc.

Mission

To remain as a dynamic, vibrant and responsive public organization serving public, private, social and strategic goods through Interdisciplinary research areas of Chemical Science & Technology, Agro-processing & Technology, Microbial Processes and Technology, Environmental Technology and Phytopharmaceuticals & drug intermediates

Course Objectives

The course targets graduates and diploma holders in various disciplines of Science and Engineering. Basic knowledge generation, hands on experience in operation and maintenance of sophisticated equipment's are the highlights of the course. The aim is to develop qualified manpower to cater to the needs of scientific organizations and industries.

Technical Expertise

- Agro-processing and Technology
- Microbial Processes and Technology
- Chemical Sciences and Technology
- Materials Science and Technology

Salient Features of the Course

- Theory : Practical = 25:75
- Small groups for individual attention
- Lectures assisted with modern teaching tools
- Troubleshooting related to instruments
- Facilitates in better interpretation of the results and communication of the same to the end users
- Interactive sessions, group discussions

CSIR-NIIST

THIRUVANANTHAPURAM

Council of Scientific & Industrial Research (CSIR),
National Institute for Interdisciplinary Science and Technology (NIIST),
Ministry of Science and Technology, Govt of India.



CSIR Integrated
Skill Initiative

SKILL DEVELOPMENT TRAINING CALENDAR 2023-24

APPLY ONLINE : <http://sdp.niist.res.in>



niist
सीएसआईआर का अंतर्विषयी आयाम
Interdisciplinary face of CSIR

<https://www.niist.res.in/csir-skill-initiative>

SKILL DEVELOPMENT TRAINING CALENDAR 2023-24

H₂ Energy from renewable resources and circular economy

Duration : 1 day Start Date : July 2023
 Fees : Industry: 3000/-; Faculty: 2000/-; RS/Students: 1000/- *18% GST for industry, Faculty, and RS/Students
 Mode : Hybrid mode / Online

Food processing techniques

Duration : 7 days Start Date : July 2023
 Fees : 5,000/- +GST Mode : Offline

X-ray diffraction of powders and thin films

Duration : 10 Days Start Date : July 2023
 Fees : 3000/- +GST Mode : Offline

Chemical and Metallurgical Process Calculations

Duration : 2 Days Start Date : July 2023
 Fees : 1500/- +GST Mode : Offline

Removal of Organic Dyes from Aqueous Solutions and Textile Wastewaters

Duration : 3 Days Start Date : July 2023
 Fees : 3000/- +GST Mode : Offline

Microscopy and X-ray Diffraction Methods in Materials Characterization

Duration : 2 Weeks Start Date : July 2023
 Fees : 7500/- Mode : Offline

Synthetic Organic Chemistry – Hands-on training on fundamentals and specialized reactions

Duration : 3 Months Start Date : July to September 2023
 Fees : 20000/- Mode : Offline

Intellectual Property Rights, Patents and Practice

Duration : 3 Months Start Date : August
 Fees : Rs.3000 (Only for Students of CSIR NIIST)
 Mode : Offline

Hands on training of IR, UV-Vis & Fluorescence Spectroscopic Techniques

Duration : 15 Days Start Date : August 2023 and February 2024
 Fees : 5000/- Mode : Offline

Value addition of Agro Produce and Quality control 1. Spices, 2. Millets, 3. Fruits and Vegetables, 4. Edible oil refining

Duration : 7 days Start Date : August 2023
 Fees : 5000/- +GST Mode : Offline

SKILL DEVELOPMENT TRAINING CALENDAR 2023-24

Remote sensing and GIS applications in Environmental Impact Assessment and Management

Duration : 6 days Start Date : August 2023
 Fees : 3000/- Mode : Online

Opportunities for entrepreneurs in waste management sector

Duration : 2 days Start Date : August 2023
 Fees : 500/- Mode : Offline sessions & field visits included

Techniques of Phytochemical Profiling & Characterization

Duration : 1 Month Start Date : August 2023
 Fees : 10,000/- Mode : Offline

Advance Metal Casting Techniques and Characterization

Duration : 3 days Start Date : September 2023
 Fees : 3000/- Mode : Offline

A short course on Environmental Chemical Analysis (Air quality - Ambient and stack emissions)

Duration : 3 days Start Date : September 2023
 Fees : 15,000+GST Mode : Offline class and lab analysis

Sustainable building materials for green construction technology

Duration : 2 days Start Date : September 2023
 Fees : Researchers/ students:500/- Faculty: 1000/- Mode : Online

Open source GIS tools: utilising QGIS for general and specific purpose Environmental mapping

Duration : 2 days Start Date : September 2023
 Fees : 1000/- Mode : Online

Functional Food & Nutraceuticals

Duration : 15 days Start Date : September 2023
 Fees : 10,000/- +GST Mode : Offline

Analytical Chemistry and Instrumentation Techniques

Duration : 1 Month Start Date : September 2023
 Fees : 10,000/- Mode : Offline

Printed Electronics based Advanced Device Fabrication

Duration : 2 days Start Date : September 2023
 Fees : Rs.1500 students & Rs.3000 (Industry sponsored) Mode : Offline

SKILL DEVELOPMENT TRAINING CALENDAR 2023-24

Construction of Genetically engineered microorganism

Duration : 10 Days Start Date : October 2023
 Fees : Rs.10000 & Rs.15000 for Sponsored Candidates Mode : Offline

Food chemistry and food analysis

Duration : 3 Months Start Date : October 2023
 Fees : 25,000/- +GST Mode : Offline

Nanomaterial Synthesis and their Coatings

Duration : 15 days Start Date : October / November 2023
 Fees : 5000/- Mode : Offline

Mechanical Testing and Thermal Characterization

Duration : 3 days Start Date : November 2023
 Fees : 3000/- Mode : Offline

Laboratory Quality Management and NABL accreditation for testing laboratories

Duration : 1 day Start Date : November 2023
 Fees : 1000 + GST Mode : Online

Food Packaging

Duration : 10 Days Start Date : November 2023
 Fees : 10,000/- +GST Mode : Offline

Dye-sensitized solar cells: Fundamentals, Device Fabrication, Characterizations and Applications

Duration : 5 Days Start Date : Nov/Dec 2023
 Fees : 5000/- Mode : Offline

Wastewater technologies and interventions for the desiccated coconut industries

Duration : 2 days Start Date : December 2023
 Fees : Rs.500/- Mode : Online

Training in real time PCR with emphasis on cellular gene expression studies-

Duration : 3 days Start Date : December 2023
 Fees : 20,000/- +GST Mode : Offline

Alloy Design and Casting Simulation

Duration : 3 days Start Date : January 2024
 Fees : 3000/- Mode : Offline