

CSIR SKILL BULLETIN

(A FORTNIGHTLY E-PUBLICATION)

सीएसआईआर कौशल पत्रक

(पाक्षिक ई-प्रकाशन)



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HIGHLIGHTS

- No. of SDP Conducted: 19
- No. of Participants Trained: 878
- No. of Upcoming Trainings: 18
- Skill Area Focus: 19



IMAGES: Skill Development Training Programs at different CSIR Labs

CSIR - Human Resource Development Centre, Ghaziabad
(Skill Nodal Office)

सीएसआईआर - मानव संसाधन विकास केंद्र, गाजियाबाद
(कौशल नोडल कार्यालय)



CSIR-NGRI, Hyderabad conducted a five-day training programme on **“Geosciences for Geothermal Energy Exploration (G2E2)”** during the period **23rd - 28th February, 2026**, under the CSIR-Integrated Skill Initiative. A total of **24** participants attended the workshop. The programme was inaugurated by Dr. Prakash Kumar, Director, CSIR-NGRI, in the presence of Dr. P. B. Sarolkar, Former Deputy Director General, Geological Survey of India, Skill Initiative Programme Nodal Officer Dr. A. R. Bansal, Course Coordinator Dr. Labani Ray, and Co-Coordinator Dr. K. Rama Mohan. The training programme concluded on a positive note, with participants expressing appreciation for the well-structured curriculum, expert mentorship, and enriching academic experience. The initiative marks a significant step toward strengthening capacity building and skill development in geothermal energy exploration in India.

CSIR-IICT, Hyderabad conducted a skill development program on **“Analytical Techniques in Food and Nutritional Chemistry to Food Science”** during the period **25th - 26th February, 2026**. The program focussed on the analytical techniques related to food industries. The presentations and demonstrations involved four Departments of CSIR-IICT, Dept of Oils, Lipid Science and Technology (DOLST), Process Engg. & Technology Transfer, Applied Biology and Dept. of Natural Products & Medicinal Chemistry. Students were trained in chromatographic and spectral techniques, Soxhlet extraction, wet analysis related to oils and fats, the effect of nutraceuticals on cancer, Microbial contamination of food materials & Use of membranes in Food chemistry. Total **27** women participants in Life Sciences attended the training.



CSIR-4PI, Bangalore conducted a Skill Development course named **“Applied Data Science: From Theory to Real-World Impact”** for unique people i.e. the pilots of the Aircraft and Systems Testing Establishment (ASTE) of the Indian Air Force during the period **23rd - 27th February, 2026**. The five-day program brought together **30** test pilots, along with the Commanding Officer (CO), for an intensive learning experience focused on bridging theoretical concepts of data science with practical operational applications. In addition to the core curriculum covering modern AI and Machine Learning techniques, the course featured dedicated discussions on real aviation scenarios where data-driven approaches can significantly enhance flight testing, system diagnostics, predictive maintenance, and mission analysis.

CSIR-CCMB, Hyderabad successfully conducted a five-day hands-on Skill Development Program/training on **“Next-Generation Sequencing and Bioinformatics: From Bench to Insight” (NGS-1)** during the period **16th - 20th February, 2026**. A total of **20** participants benefited, including PhD Scholars, Research Scientists, and Faculty across India. The program provided intensive hands-on training and theoretical insights into DNA/RNA quality control (Qubit, TapeStation), QC data interpretation and sample preparation for sequencing, ONT /Illumina library preparation, Library QC (Qubit, TapeStation), sequencer setup and flow cell loading demonstration, NGS data formats, quality control and analysis, Sequence alignment, SAM format, Variant annotation, Introduction to long-read sequencing (LRS) data analysis, workflows and troubleshooting.





CSIR-IIIM, Jammu conducted a three-day Skill Development Training Programme on “**Gas Chromatography (GC)**” during the period **09th - 11th March, 2026** bringing together young researchers, scholars and students from diverse scientific backgrounds for hands-on exposure to advanced analytical techniques. The programme began with the inaugural session followed by insightful addresses from the Director CSIR-IIIM Jammu, Dr. Zabeer Ahmed and senior scientists of the institute. Participants were introduced to the objectives of the training and the role of modern analytical instrumentation in scientific research. The three-day programme aimed to strengthen technical skills and provide foundational knowledge of Gas Chromatography through a blend of lectures and practical laboratory sessions. **20** participants benefited from this training program.

CSIR-CCMB, Hyderabad successfully conducted a five-day hands-on Skill Development Program/training on “**R for Biologists**” (R-1) during the period **23rd - 27th February, 2026**, benefiting a total of **11** participants, including PhD Scholars, Research and Industry scientists across India. The program provided intensive hands-on training and theoretical insights into RStudio, Tidyverse , ggplot , dplyr , Forcats , Readr , R plots , Advanced data visualization for publication level plots (GGally, Contour plot, Correlogram, Ridge plot, Complex Heatmap, Volcano plot), generating plots for data coming for RNA sequencing and metagenomics study, data analysis, workflows and troubleshooting with one-on-one mentoring.



CSIR-NIIST, Thiruvanthapuram conducted a five-day skill development course titled “**Hands on training for the extraction and characterization of plant proteins**” under CSIR Integrated Skill Initiative during the period **02nd - 06th March, 2026**. The program taught participants about the basics of plant proteins, their extraction strategies, characterization and food product formulation with hands-on training at lab and pilot plant facility. **5** participants benefited from this training programme.

CSIR-NIO, Goa organized a two-day societal program titled “**Demonstration on Preparation of Fish Silage**” during the period **07th - 08th March, 2026** at Village Panchayat Curca, Bambolim, Talaulim - Goa. The program aimed to create awareness about the utilization of fish waste for the preparation of fish silage. The event brought together a total of **19** local farmers and community members interested in learning simple value-addition techniques that can enhance income generation and make use of fishery waste. The session concluded with an interactive discussion where participants shared their queries and discussed the potential of adopting fish silage preparation at community and small-scale enterprise levels. The demonstration highlighted sustainable waste management practices and emphasized the economic benefits of converting fish waste into nutrient-rich silage. Participants appreciated the practical approach and expressed keen interest in implementing the technique locally. The programme successfully encouraged community engagement towards sustainable livelihood enhancement and marine resource management.





CSIR-IIP, Dehradun conducted a Skill Development Training program on **“Molecular Biology”** during the period **23rd - 27th February, 2026** under the aegis of CSIR IIP Integrated Skill Initiative. The training program provided hands on practical sessions on Genomic DNA Isolation, Competent Cell Preparation & Transformation, Plasmid Isolation, Restriction Digestion, Primer Design, PCR, & Gel Electrophoresis. During the valedictory session, MRED HOD - Dr Debasish Ghosh, HOA Dr Sunil Kumar Suman, In-Charge Training - Premchand N, have delivered talks and interacted with the students. The training program was attended by **10** participants. Officiating Director Dr S K Gangadhar distributed the participation certificates and the 05 day training program successfully ended with overwhelmingly positive response from the participants.

CSIR-IITR, Lucknow organized a workshop on **“Oxidative and Cellular Stress Assays”** during the period **25th - 27th February, 2026** under the CSIR-Integrated Skill Initiative. Participants from different universities attended the workshop, representing a range of academic levels from post graduate students to Ph.D. Scholars. A total of **17** participants attended the workshop. The inaugural session of the workshop began with a welcome by Dr. Pradeep K. Sharma (Co-Nodal Scientist, Skill Development Programs, CSIR-IITR) and remarks by Dr. Bhaskar Narayan (Director, CSIR-IITR). The Course coordinators for the workshop were Dr. Ravi Ram Kristipati (Scientist-G, CSIR-IITR) and Mrs. Miratul Fatima (Senior Research Fellow, CSIR-IITR) and Ms. Shraddha Srivastava (Project Associate-I, CSIR-IITR). The three-day workshop began with a theoretical session followed by hands-on training in sample and buffer preparation, ROS and protein estimation, and related calculations.



CSIR-IITR, Lucknow organized a five-day workshop on **“Hands-on training on Toxicology and Pathological Tools and Technique for Pre-Clinical Regulatory Toxicity Studies”** during the period **23rd - 27th February, 2026** under the CSIR-Integrated Skill Initiative. Participants from different universities attended the workshop, representing a range of academic levels from post graduate students to Ph.D. Scholars. A total of **19** participants attended the workshop. The inaugural session of the workshop began with a welcome by Dr. Pradeep K. Sharma (Co-Nodal Scientist, Skill Development Programs, CSIR-IITR) and remarks by Dr. Akshay Dwarakanath (Scientist-G, In-charge, CRK Campus, CSIR-IITR). Dr. Anjaneya, Dr. Akshay Dwarakanath & Dr. Dharendra Singh are the course coordinators for the same.

CSIR-NIIST, Thiruvananthapuram in association with IIT Palakkad conducted a six day skill training program on **“Entrepreneurship & Business Data Management”** during the period **16th - 21st February, 2026** with a focused objective of strengthening advanced skill development to **25** students of College of Applied Science, Malampuzha - an IHRD institution in Palakkad. Hands on exposure to entrepreneurship, business models and data-driven decision making tools were given.





CSIR-NBRI, Lucknow organized a Two-day Training cum Awareness Programme on “DUS Testing on Bougainvillea, Gladiolus & Canna” under CSIR Integrated Skill Initiative during the period 09th - 10th March, 2026. A total of 15 candidates participated in the training programme. The programme included theory and practical sessions on DUS testing. The training provided hands-on exposure to field evaluation and characterization of varieties as per prescribed DUS guidelines. Participants actively interacted with experts and clarified their queries regarding varietal registration and protection procedures. The programme concluded with a feedback session and distribution of certificates to all participants.

CSIR-CSIO, Chandigarh conducted two days workshop on “Fundamental of Semiconductor Devices” under CSIR Integrated Skill Initiative Programme during the period 10th - 11th March, 2026 in new developed centre “Centre for Nano Optical Fabrication (CNOF)”. 14 participants attended this practical oriented workshop from academia, industry, research institutes. Various domain lectures have been delivered by Prof. Shantanu Bhattacharya Director CSIR-CSIO, Shri Mukesh Aggarwal Ex Scientist G SCL Mohali, Dr. Mukesh Kymar Sr. Principal Scientist & Head CNOF, DR. Dhairya Singh Arya Scientist, Dr. Vinod Parmar Scientist and Shri Narinder Singh Jassal including Fundamentals Semiconductor Devices, MEMS, Semiconductor Packaging, DSIR-PRISM Scheme, Thin Film, clean room, etc.



CSIR-IMMT, Bhubaneswar conducted a two-day Skill Development Programme on “Technology, Research, Entrepreneurship and Excellence - IP Interface” during the period 06th - 07th March, 2026. The programme focused on strengthening participants’ understanding of intellectual property rights and their role in innovation-driven research and entrepreneurship. Experts delivered insightful lectures along with practical case discussions to enhance awareness about IP management and commercialization strategies. 316 participants benefited from this training program.

CSIR-AMPRI, Bhopal organised Five Programs on the topics “CNC Turner, Conventional Turner, Welder & Fitter”, “Advanced Materials for Biomedical Applications”, “Basic Skills in Science Laboratory Techniques”, “Computation Mastery for Advanced Material Modelling”, and “Radiation Shielding” during the period 11th - 12th March, 2026 under the aegis of CSIR Integrated Skill Initiative Phase III. The Programs were inaugurated by Dr. Thallada Bhaskar, Director, CSIR-AMRRI. In his inaugural speech, he emphasized the imperative of developing skills and the importance of these programs for students as a feedstock for research and industry requirements. Around 150 students from about a dozen institutions in Madhya Pradesh participated in the courses. Dr. Prabhat Kumar Baghel delivered the welcome address. Dr. Sandeep Singhai delivered a lecture on “AI in IPR & Entrepreneurship” during the inaugural session. The students received hands-on training during the Program under the guidance of faculty and course coordinators.





CSIR-NCL, Pune conducted a two-day Skill Development Program (SDP) on the occasion of Women's Day, titled **"Women's Day Special Batch for Polymer Characterization by GPC Techniques"** during the period 12th - 13th March, 2026, in which 7 students were trained. This program focused on Gel Permeation Chromatography (GPC), a technique widely used in industries such as polymer, pharmaceutical, and food for material characterization. GPC is one of the most powerful methods for determining the average molecular weight and polydispersity of polymer samples. The course provided detailed knowledge on theoretical concepts, sample preparation, data generation, data analysis, report preparation, and troubleshooting related to Gel Permeation Chromatography. After completing the course, the participants gained the ability to analyze and interpret data and develop practical expertise in the technique. On this special occasion, Dr. Shatabdi Porel Mukherjee, Dr. GVN Rathna was invited as the Women's Day guests, where they shared valuable career guidance and insights to the students. The program was successfully coordinated by Mrs. Poorvi Purohit, with Mr. Kalpesh Bokade contributing to the successful execution of the course. The Skill Nodal Head at CSIR-NCL, Dr. Rajesh Gonnade, extended full support for the smooth conduct of this program.

CSIR-CIMFR, Dhanbad conducted a three-day training program on **"Manufacturing, Quality Assessment, and Safety of Mining Components"** under the CSIR-Integrated Skill Initiative at Government Polytechnic, Nirsa, during the period 10th - 12th March, 2026. On the first and second day, students were taught the fundamentals of testing at Government Polytechnic, Nirsa. On the third day, 12th March 2026, participants visited various laboratories at the CSIR-CIMFR Barwa Road campus, including the Material Characterization Lab, Wire Rope and Electrical Engineering Lab, Workshop, and the Flameproof and Equipment Safety Lab. A total of 52 students took part in the program, representing the disciplines of Mechanical Engineering and Civil Engineering.



CSIR-IICB, Kolkata conducted a Skill development programme on **"High-end R&D lab techniques"** in fifteen parallel programmes during the period 06th - 27th February, 2026 as a part of CSIR Integrated Skill Initiative Phase III. 97 candidates received hands-on training during this programme. The programme focused on imparting advanced practical exposure to participants in sophisticated laboratory methodologies and modern research instrumentation. The sessions were conducted by experienced scientists and technical experts of the institute, ensuring in-depth understanding and skill enhancement. The initiative aimed to strengthen technical competencies and improve employability prospects of young researchers and students in emerging areas of scientific research. The initiative also emphasized laboratory safety practices, data analysis, and research documentation standards. The training significantly enhanced the technical competencies and confidence of the participants, thereby strengthening their career prospects in research and industry sectors.







SKILL DEVELOPMENT PROGRAMME

"Determination of Active Principles of Spices; A Theoretical Approach and Practical Demonstration"

Objectives

The objective of the current course is to familiarize the attendees with the active principles of spices their importance, extraction, separation, and purification techniques, and qualitative and quantitative evaluation of the spices' bioactives using sophisticated analytical instrumentation methods (UV-visible spectrophotometer and Chromatographic techniques) wherever possible.

The Course is designed in such a way that first, the participants will get the introductory information through theory classes about Spices active principals, and further they would be exposed to the practical demonstration.

Topics to be covered

- Introduction to spices, classification, physicochemical, functional, and nutraceutical properties.
- Theory classes and Practical demonstration on Oils and oleoresins, extraction, separation, and purification procedures
- Proximate composition Analysis of Spices; theoretical and practical aspects.
- Various Drying Techniques useful for the dehydration of spices to maintain the quality
- A qualitative and quantitative analysis of Spices bioactives using sophisticated instruments, Spectroscopy: UV-visible spectrophotometer and Chromatographic techniques wherever applicable.

Course Fee: Rs. 5000/- per participant

Date: 23-27 March 2026 (5 days)

Job opportunities/benefits: The course will benefit the students, entrepreneurs, and startups interested in the Spices Sector

No. of Seats: 5-10

Mode of Training: Offline

ACCOUNT DETAILS

The Director, CSIR-NIIST
 Account No: 67047723825
 IFSC Code: SBIN0070303
 Bank: State Bank of India (SBI)
 Address: Pappanamcode, Industrial Estate

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

Course coordinator:
Dr. Tripti Mishra, Senior Scientist
CSIR-NIIST, Thiruvananthapuram

Resource person:
Dr. E. Jayashree, Principal Scientist
Indian Institute of Spices Research, Kottikkal

CONTACT PHONE: 0471-2515326, 7994942888
E-mail: sdp@niist.res.in, triptimishra.niist@csir.res.in

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




CSIR-NEERI, Nehru Marg, Nagpur-440020

Green Skill Training Program on "Artificial Intelligence and High Performance Computing Training on Environmental Studies"

April 23-24, 2026

OBJECTIVES

In order to address complex environmental challenges such as climate change, land degradation, air and water pollution, biodiversity loss, and sustainable resource management, advanced computational tools are essential for data-driven decision-making. The integration of Artificial Intelligence (AI) and High-Performance Computing (HPC) enables efficient processing of large-scale environmental datasets, real-time monitoring, predictive modeling, and optimization of environmental management strategies. CSIR-NEERI has extensive experience in environmental monitoring, assessment, modeling, and technology development for various private, public, and state/central government agencies across the country. Leveraging its domain expertise, this training program aims to build capacity in applying AI techniques (machine learning, deep learning, and predictive analytics) and HPC frameworks for solving real-world environmental problems. The program is designed to equip researchers, academicians, industry professionals, and policymakers with practical knowledge and hands-on experience in AI-driven environmental analytics and high-performance computational techniques for sustainable environmental management.

COURSE CONTENTS

- Complexity in Environmental Studies
- Fundamentals of Artificial Intelligence (AI) and its opportunities in environmental engineering.
- AI-based applications for air quality monitoring, water management, and waste management, including hazardous waste.
- To demonstrate digital technologies in environmental monitoring systems for real-time data acquisition.
- To impart knowledge on High-Performance Computing (HPC), digital systems, digital twins, and advanced computational infrastructure for AI-ML applications.
- Advanced modelling techniques for biodiversity, circular economy, climate change, and carbon capture.
- Real-world applications of AI and HPC in climate change prediction and environmental sustainability.

VENUE: CSIR-NEERI, Nagpur


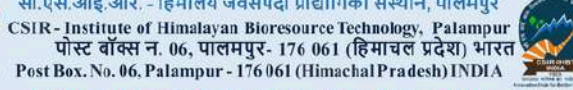
MODE OF TRAINING: Classroom lectures/ demonstration/ interaction.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through https://docs.google.com/forms/d/1EAlpQLScDPHG60RH1E438lJfONZ_A1Y9lx2M812wqMfBgggmiA/viewform?usp=sharing&ouid=111522172339616674268
- Registration fees: Rs. 2000/-
- Closing Date: April 15, 2026
- Seats are limited (25 seats) and registration will be confirmed on first come first get basis by email. Registration web link will be closed after receiving registration requests.
- Payment Details: The Director, CSIR-NEERI, Nagpur, Account Number: 30266513766
 Branch: NEERI SBI Branch, Nagpur (Maharashtra), IFSC Code: SBIN004224
- For any query kindly contact to: piyush.kokate@csir.res.in, Contact No. 8806958188

CERTIFICATE OF PARTICIPATION: Certificate of Participation will be issued on successful completion.

DIRECTOR Dr. S. Venkata Mohan Director CSIR-NEERI	GREEN SKILLS COORDINATOR Dr. Harshvardhan Singh Scientist G & Head Skill Development Centre (SDC)	COURSE COORDINATOR Dr. Shashikant Sadhasiv Scientist G & (C-EIDS Team)
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CSIR - Institute of Himalayan Bioresource Technology, Palampur
 पोस्ट बॉक्स नं. 06, पालमपुर- 176 061 (हिमाचल प्रदेश) भारत
 Post Box. No. 06, Palampur - 176 061 (Himachal Pradesh) INDIA

CSIR- Integrated Skill Initiative (Phase-III)

Applications are invited for the Course of

Plant Tissue Culture Technician

Course Code: AGR/Q8101, NSQF Level-4

A Plant Tissue Technician performs several activities such as preparing the lab, culture media and mother plant, extracting, preparing, planting and maintaining explants. The person also transplants the tissue cultured plants and maintains record of laboratory operations.



Course Includes:

- Prepare for Plant Tissue Culture
- Carry out Plant Tissue Culture
- Transplant the tissue-cultured plants and maintain records
- Maintain health and safety in the workplace
- Employability Skills

Course Start Date: 01st June, 2026

Last date of receiving application: 30.04.2026
 Course fee : Rs. 10000/-
 No. of Seats : 20
 Education Qualification : 12 or equivalent (Science)
 OR
 10th Grade Pass with 3-year relevant experience
 OR
 Previous relevant Qualification of NSQF Level 3.5 with 1.5-year relevant experience in Agriculture and allied sectors
 OR
 Previous relevant Qualification of NSQF Level 3.0 with 3-year relevant experience in Agriculture and allied sectors



Course Duration: 390 Hours
60 Days Approx.



For more details about Institute, kindly scan the QR code

Evaluation: Conducted by the Agriculture Skill Council of India (ASCI), a unit of National Skill Development Corporation (NSDC), Govt. of India

Accommodation will be provided on sharing and payment basis, as per the availability.

For more details about the institute, kindly scan the QR code.

Contact us:
 Phone: +91-1894-233339 (Ext.) 315, 346
 Fax: +91-1894-230433
 Email: sdp@ihb@csir.res.in
 Website: www.ihb.res.in

Skill Development Program On "LC-MS based Proteomics"

23rd – 28th March 2026

CSIR-Center for Cellular and Molecular Biology shall conduct a hands-on training workshop for six days on "LC-MS based Proteomics" targeted to faculty/researchers from Universities/ institutes as well as people working in the industry in the field of Life Sciences, Medical Sciences, Pharmaceutical Science & allied areas. This introductory workshop is intended for beginners to teach and train them about the basics of proteomics and its applications in research for various experiments. It will be supplemented with informative lectures, hands-on training, instrument set-up, data collection and analysis.

Duration	: 6 days
No. of seats	: 8-10
Target Audience	: Faculty/ Researcher from Academia/Industries/Institutes
Minimum Qualification	: Masters in any branch of Life Science/Allied areas
Dates	: 23 rd to 28 th March 2026
Mode of the Course	: In-house training at CCMB
Mode of selection	: Application form & Statement of Purpose
Course Fee	: Rs. 18,000/- (includes accommodation and GST)
Apply using the link	: http://recruitment.ccmb.res.in/training_programs/sdp/
Course Code	: PROTEO-5

Training Curriculum for Course:

- Basic operational fundamentals of liquid chromatography, mass spectrometry, and LCMS interface
- Qualitative and quantitative aspects of LC- MS: from simple molecular weight determination to large scale proteome analysis
- Sample preparation of LC-MS, SDS PAGE, staining/destaining, processing of gel pieces towards in-gel trypsin digestion, extraction of peptides, desalting
- LC-MS run & interpretation & analysis of MS data


Salient Features of the Training:

- Skilled resource persons will provide lectures and laboratory training
- Certificate of participation will be issued to the participants
- Exposure to laboratory safety regulations
- One-to-one interaction with the trainers
- Evaluation assignments and Trouble-shooting sessions

Training Coordinator:
Dr. Swati Raychaudhuri
Senior Principal Scientist,
Proteomics,
CSIR-CCMB Hyderabad.

Contact details:
Dr. Archana Bharadwaj Siva
Chief Scientist
Nodal Scientist-Skill Development Program
CSIR-CCMB, Hyderabad.
sdp@ccmb.res.in

Scan to Apply



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 Post Box. No. 06, Palampur - 176 061 (Himachal Pradesh) INDIA

CSIR- Integrated Skill Initiative (Phase-III)
 Applications are invited for the Course of
Design and construct Vertical Garden

Course Code: AGR/N0856, NSQF Level-4

A Design and construct Vertical Garden program, certified by the Agriculture Skill Council of India (ASCI). This OS unit is about planning, designing and construction of vertical gardens.



Course Start Date: 15th June, 2026

Course Includes:

- Design and construct Vertical Garden
- Carry out maintenance of the garden
- Maintain health and safety at the workplace

Course-coordinator
Dr. Bhavya Bhargava
Nodal Skill Development Programme
Dr. Gireesh Nadda

For more details about Institute, kindly scan the QR code

Evaluation: Conducted by the Agriculture Skill Council of India (ASCI), a unit of National Skill Development Corporation (NSDC), Govt. of India

Accommodation will be provided on sharing and payment basis, as per the availability

Last date of receiving application: 08.06.2026
Course fee: : Rs. 1200/-
No. of Seats: : 20
Education Qualification: 12th or equivalent
 OR
 Pursuing 2nd year of 3 year diploma in Agriculture/Horticulture/Forestry/ Agriculture Engineering after 10th pass
 OR
 Previous relevant Qualification of NSQF Level 3.5 with 1.5-year of relevant experience in Agriculture and allied sectors
 OR
 Previous relevant Qualification of NSQF Level 3 with 3-year of relevant experience in Agriculture and allied sectors

Course Duration: 37.5 Hours (7 Days Approx.)

Contact us:
 Phone: +91-1894-233339 (EXT.) 318; 346
 Fax: +91-1894-230433
 Email: skill_iibt@csir.res.in
 Website: www.iibt.res.in

सीएसआईआर - राष्ट्रीय अंतरविषयी विज्ञान तथा प्रौद्योगिकी संस्थान
CSIR - NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY (NIIST)

HANDS ON TRAINING ON UV-VIS, IR, AND FLUORESCENCE SPECTROSCOPIC TECHNIQUES

OBJECTIVES AND SCOPE

Spectroscopy is the study of the absorption and emission of electromagnetic radiation by matter. Though unique to the kind of radiation used, spectroscopy is integral to a wide variety of disciplines. From providing theoretical backing to easy quantum research in radiation and atomic structure, this field has evolved to be critical to the characterization of materials, structural elucidation, imaging, sensing and detection, and various other applications. Spectroscopy also provides a multi-utility tool kit for the development of new and improved materials with unprecedented properties. Among all spectroscopic techniques, UV-Vis, IR, and Fluorescence spectroscopy provide the basic understanding of light-matter interactions. This program is designed to provide attendees with a working knowledge of UV-Vis, IR, and Fluorescence spectroscopies, their fundamental aspects, advanced techniques and emerging applications, including hands-on training sessions on different spectroscopic modules.

TOPICS COVERED
(A) THEORY

- Introduction to Spectroscopy
- Basic Theories in Spectroscopy
- Fundamentals of UV-Vis Spectroscopy: The electromagnetic spectrum, Ultraviolet and visible radiation, electronic transitions and the UV spectrum, Chromophores and auxochromes, Empirical rules for calculating absorption maxima, Shifts in absorption maxima: The Beer-Lambert Law, principles of data processing
- UV-Vis Spectrophotometer - Instrumentation
- UV-Vis Spectroscopy of organic, inorganic and hybrid materials
- Practical applications of UV-Vis Spectroscopy
- Introduction to FTIR spectroscopy, Molecular vibration and light absorption, interferometer, constructive and destructive interference, interferogram of monochromatic, polychromatic and broadband sources, advantages of FT-IR spectroscopy, principles of data processing: folding, apodization, zero-filling, phase errors, spectral resolution
- FTIR Spectrophotometer - Instrumentation
- Practical applications of FT-IR Spectroscopy
- The fundamentals of fluorescence spectroscopy: The understanding of fluorescence, fluorescence anisotropy, fluorescence spectroscopy principle, fluorophores, solvent and environmental effects, kinetics of photophysical processes, quantum yields, lifetime, fluorescence quenching, energy transfer
- Fluorescence Spectrophotometer - Instrumentation
- Practical applications of fluorescence spectroscopy

(B) HANDS ON TRAINING ON UV-VIS, IR, AND FLUORESCENCE SPECTROPHOTOMETERS

- Instrumentation
- Sample Preparation
- Instrumental Analysis
- Data Collection
- Data analysis
- Data Validation and interpretation
- Experimental Spectroscopy with regard to practical applications

RESOURCE PERSONS

- Dr. Sireesh Shankar
- Dr. Joshy Joseph

COURSE MATERIALS AND CERTIFICATE

- The participants will receive a Certificate and Course material (soft copy)
- Hands on training

Number of students in a batch: 20-25
Fee: Rs. 5,000

ELIGIBILITY
 Bachelors, Masters or PhD Degree in Science or Engineering

MODE
 Offline

ACCOUNT DETAILS
 The Director, CSIR-NIIST (Regional Research Laboratory (IIRL))
 Account No: 6704722825
 IFSC Code: SBIN0700303
 Bank: State Bank of India (SBI)
 Address: Pappancode, Industrial Estate

CONTACT
 PHONE: 0471-2515326
 E-mail: sdp@niist.res.in

COURSE DATE AND DURATION
 23-28 March, 2026
 6 Days

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

<https://nclsdpc.ncl.res.in/>

CSIR INTEGRATED SKILL INITIATIVE

CSIR-NCL SKILL DEVELOPMENT PROGRAM

“Women’s Day Special Batch for HPLC & LC-MS”



ABOUT COURSE
 Chromatography, a crucial technique extensively employed in industry and research that facilitates the separation, identification and purification of components of mixture for both qualitative and quantitative analysis. This course offers brief training on HPLC & LC-MS.

COURSE CONTENT

- High Performance Liquid Chromatography (HPLC)
- Liquid Chromatography-Mass Spectrometry (LC-MS)

PRIME INSTRUCTOR & TEAM
 Dr. Nilakshi Sadavarte
 Dr. Snehal More

COURSE DETAILS
 Duration- 2 Days
 Date:- 23rd March-24th March 2026
 No. of Seats- 10
 Eligibility- M.Sc./Chemical & Life Sciences, M.Pharm.
 Course Fees- Free of cost on the occasion of Women’s Day
 Accommodation- 500 /- for 2 days.

FOR WHOM

- Students
- Academic Researchers
- Industrial Professionals

HOW TO APPLY
 Application form is available at -
<http://www.ncl-india.org/files/SDP/Default.aspx>

WHY CHOOSE US

- More weightage on hands-on practice
- Interactive sessions
- Robust & sustainable training module
- Fee structure
- Brief on career options
- Networking

Here is the reason why

Envalior
 CSIR Sponsor

<https://nclsdpc.ncl.res.in/>
ncl.sdtc.ncl@csir.res.in

CSIR-National Chemical Laboratory,
 Dr. Homi Bhabha Road, Pashan,
 Pune-411008

सी.एस.आई.आर. - हिमालय जैवसंपदा प्रौद्योगिकी संस्थान, पालमपुर
CSIR - Institute of Himalayan Bioresource Technology, Palampur
 पोस्ट बॉक्स नं. 06, पालमपुर- 176 061 (हिमाचल प्रदेश) भारत
 Post Box. No. 06, Palampur - 176 061 (Himachal Pradesh) INDIA

CSIR- Integrated Skill Initiative (Phase-III)
 Applications are invited for the Course of
Floriculturist

Course Code: AGR/Q0701, NSQF Level-4

A Floriculturist performs various activities in the process of cultivating flower crop such as selecting the site; preparing the field; propagating saplings in the nursery; transplanting the sapling, and maintaining the plants. The person is also responsible for carrying out harvesting, post-harvesting processing and marketing of the flower crop.



Course Start Date: 15th June, 2026

Course Includes:

- Prepare for the cultivation of flower crop
- Propagate flower plant saplings
- Harvest, transplant and maintain saplings to grow flowers
- Carry out harvesting and post harvest management of flower crop
- Engage in collective farming/activity
- Maintain health and safety at the workplace

Course-coordinator
Dr. Bhavya Bhargava
Nodal Skill Development Programme
Dr. Gireesh Nadda

For more details about Institute, kindly scan the QR code

Evaluation: Conducted by the Agriculture Skill Council of India (ASCI), a unit of National Skill Development Corporation (NSDC), Govt. of India

Accommodation will be provided on sharing and payment basis, as per the availability

Last date of receiving application: 08.06.2026
Course fee: : Rs. 1600/-
No. of Seats: : 20
Education Qualification: : 12th or equivalent
 OR
 10th Class with 3 years of relevant experience in Agriculture & Allied sectors
 OR
 Previous NSQF Level 3.5 with 1.5 years of relevant experience in Agriculture & Allied sectors
 OR
 Previous NSQF Level 3 with 3 years of relevant experience in Agriculture & Allied sectors

Course Duration: 390 Hours (70 Days Approx.)

Contact us:
 Phone: +91-1894-233339 (Ext.) 318; 346
 Fax: +91-1894-230433
 Email: skill_iibt@csir.res.in
 Website: www.iibt.res.in



CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY
(Under Ministry of Science & Technology, Govt. of India)
Tarnaka - Uppal Road, Hyderabad - 500007, Telangana, India





SKILL DEVELOPMENT PROGRAM
ON
PEPTIDE SYNTHESIS
(23rd-27th March, 2026)



CSIR Integrated Skill Initiative

Organized by
Department of Natural Products & Medicinal Chemistry
CSIR-Indian Institute of chemical Technology, Hyderabad

FEATURES

- Rigorous training by means of Theory & Experimentation
- Lectures from the Peptide experts
- Hands on experience on Peptide Synthesis
- Learning Characterization techniques of Peptides
- Evaluation of knowledge gained through assignments
- Exposure to research areas in the Institute
- Certificate on successful completion of course



Timings : 900am - 530pm
Batch Size : 20 (Limited seats available)

Registration fee

Students : INR 3000/- (Inclusive GST)
Industry/Faculty : INR 5000/- (Inclusive GST)



Scan here to Register!

For Details, Please Contact:

<p>COURSE CO-ORDINATOR Dr. Debabrata Maity Scientist-D dmaity.iict@csir.res.in</p>	<p>HEAD-DEPT OF NPMC Dr. Sandip B. Bharate Scientist-G sbharate.iict@csir.res.in</p>
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Nodal Officer- Skill Development
CSIR-Indian Institute of Chemical Technology,
Tarnaka, Uppal Road,
Hyderabad - 500 007, Telangana, India

sdp@iict.res.in [iictindia](https://www.facebook.com/iictindia)
040-27193146

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CSIR - Institute of Himalayan Bioresource Technology, Palampur
पोस्ट बॉक्स नं. 06, पालमपुर- 176 061 (हिमाचल प्रदेश) भारत
Post Box. No.06, Palampur - 176 061 (Himachal Pradesh) INDIA

CSIR- Integrated Skill Initiative (Phase-III)
Applications are invited for the Course of

Master Gardener
Course Code: AGR/Q0801, NSQF Level-4





A Master Gardener is responsible for planting and maintaining lawns and gardens in private and public properties such as homes, parks and hotels. The individual uses a variety of tools and equipment for this purpose and carries out their basic repair and maintenance also



Course Start Date: 15th June, 2026

<p>Course Includes:</p> <ul style="list-style-type: none"> ➤ Raise saplings in the nursery for transplanting in the garden ➤ Prepare a plan to set up the garden ➤ Set up the garden as per the plan ➤ Carry out maintenance of the garden ➤ Maintain health and safety at the workplace ➤ Design, set up and maintain a rooftop garden 	<p>Last date of receiving application: 08.06.2026 Course fee : Rs. 1000/- No. of Seats : 20 Education Qualification : 12th or Equivalent OR 10th Class with 3-year of relevant experience in Agriculture and allied sectors OR Previous relevant qualification of NSQF Level 3.5 with 1.5 Years of relevant experience in Agriculture and allied sectors OR Previous relevant qualification of NSQF Level 3 with 3 Years of relevant experience in Agriculture and allied sectors</p>
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Course-coordinator
Dr. Bhavya Bhargava
Nodal Skill Development Programme
Dr. Gireesh Nadda

For more details about Institute, kindly scan the QR code



Evaluation: Conducted by the Agriculture Skill Council of India (ASCI), a unit of National Skill Development Corporation (NSDC), Govt. of India

Accommodation will be provided on sharing and payment basis, as per the availability



Course Duration: 390 Hours (70 Days Approx.)




Contact us:
Phone: +91-1894-233339 (Ext.) 318; 346
Fax: +91-1894-230433
Email: skill_ibbt@csir.res.in
Website: www.ibbt.res.in

सी.एस.आई.आर. - हिमालय जैवसंपदा प्रौद्योगिकी संस्थान, पालमपुर


CSIR - Institute of Himalayan Bioresource Technology, Palampur
पोस्ट बॉक्स नं. 06, पालमपुर- 176 061 (हिमाचल प्रदेश) भारत
Post Box. No.06, Palampur - 176 061 (Himachal Pradesh) INDIA

CSIR- Integrated Skill Initiative (Phase-III)
Applications are invited for the Course of

Essential oil Extractor
Course Code: AGR/Q0902, NSQF Level-3

An Essential Oil Extractor is responsible for extracting essential oils from the harvested Medicinal and Aromatic Plants (MAPs). In the process, the individual collects the relevant MAPs, uses the appropriate equipment to extract essential oils and follows the appropriate oil extraction methods. The person also assists in marketing the extracted oils.




Course Start Date: 18th June, 2026

<p>Course Includes:</p> <ul style="list-style-type: none"> ➤ Collect the appropriate MAPs for extracting essential oils ➤ Extract essential oils from the MAPs ➤ Assist in marketing the essential oils and maintaining records ➤ Maintain health and safety at the workplace 	<p>Last date of receiving application: 15.05.2026 Course fee : Rs. 1000/- No. of Seats : 10 Education Qualification : 8th grade pass with 2 years of relevant experience OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR 5th grade pass with 5 years of relevant experience OR Previous relevant qualification of NSQF Level 2 with 1 year of relevant experience OR Previous relevant qualification of NSQF Level 2.5 with 6 months of relevant experience</p>
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Course-coordinator
Er. Mohit Sharma
Nodal Skill Development Programme
Dr. Gireesh Nadda

For more details about Institute, kindly scan the QR code



Evaluation: Conducted by the Agriculture Skill Council of India (ASCI), a unit of National Skill Development Corporation (NSDC), Govt. of India

Accommodation will be provided on sharing and payment basis, as per the availability



Course Duration: 270 Hours
45 Days Approx

Contact us:
Phone: +91-1894-233339 (Ext.) 453; 346
Fax: +91-1894-230433
Email: skill_ibbt@csir.res.in
Website: www.ibbt.res.in

<https://nclsdp.ncl.res.in/>



CSIR INTEGRATED SKILL INITIATIVE

CSIR-NCL SKILL DEVELOPMENT PROGRAM

Quality Control Chemist

FOR WHOM

- Students
- Academic Researchers
- Industrial Professionals

HOW TO APPLY
Application form is available at - <http://www.ncl-india.org/Files/SDP/Default.aspx>

COURSE COORDINATOR
Dr. Rajesh C Gonnade
Chief Scientist,
Physical & Materials Chemistry Division

COURSE FEES

Students	- 10,620 /-
Faculty	- 17,700 /-
Industrial Professional	- 29,800 /-

(The fees stated include 18% GST)
Accommodation-2 weeks + 2 days with affordable charges

COURSE COORDINATOR
Dr. Rajesh C Gonnade
Chief Scientist,
Physical & Materials Chemistry Division

COURSE COORDINATOR
Dr. Gaurav Zinta and Dr. Arun Kumar

Nodal Skill Development Programme
Dr. Gireesh Nadda

Envalor
Inspire the Future
CSR Sponsor



ABOUT COURSE
Quality Control is essential to ensure the desired quality of manufactured products. The role of a Quality Control Chemist is therefore crucial in both manufacturing and research environments. Quality is maintained through qualitative and quantitative testing methods, implemented by the Quality Assurance units with the support of skilled QC chemists. They design test protocols, determine sample sizes and maintain accurate raw data and documentation. Quality control is enforced from the raw material stage to the finished product, strictly following established Standard Operating Procedures (SOPs). While testing requirements may vary across organizations, fundamental laboratory analyses remain the backbone of every quality control program.

COURSE CONTENT

- Basics of chemistry and laboratory safety guidelines.
- Hands-on introduction to FTIR, XPS and DLS (Particle Size Analysis)
- Chromatographic techniques: HPLC, GC, GC-MS, and LC-MS
- Solubility and dissolution testing
- USPDA protocols, method development, validation, and troubleshooting
- Qualitative and quantitative analysis
- Instrument operation and analytical software training
- Introduction to PXRD (Powder X-Ray Diffraction)

COURSE DETAILS

Duration: 2 weeks
Dates: 23rd March - 02nd April 2026
No. of Seats: 15
Eligibility: M.Sc. Chemistry / Biology / M.Pharm

More weightage on hands-on practice
Interactive sessions
Robust & sustainable training module
Affordable fee structure
Brief on career options
Networking

Here is the reason why **WHY CHOOSE US**

<https://nclsdp.ncl.res.in/>
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CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Patashan, Pune-411008

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CSIR - Institute of Himalayan Bioresource Technology, Palampur
पोस्ट बॉक्स नं. 06, पालमपुर- 176 061 (हिमाचल प्रदेश) भारत
Post Box. No. 06, Palampur - 176 061 (Himachal Pradesh) INDIA

CSIR- Integrated Skill Initiative (Phase-III)
Applications are invited for the Course of
Biologist/Biotechnologist

LSSSDC
Course Code: LFS/Q4101, NSQF Level-5

Learn how biologists and biotechnologists transform plants and microbes into cutting-edge bio-products by using biotechnological tools.
Build the skills that power tomorrow's bio-economy



Course Start Date: 03rd June, 2026

Last date of receiving applications: 01.05.2026
Course fee : Rs. 7000/-
No. of Seats : 10
Education Qualification : B.Tech (biotechnology) Final Year Student
or
M.Sc (biology and biotechnology related subject) Final Year Student
or
B. Pharma final year student (with Pharmacognosy Subject)
or
B. Sc. (biology and biotechnology related subject) Pass
or
NSQF Level 4 Certificate of Production Machine Operator Sterile Formulations with 3 Years of Experience

Course Includes:

- Perform critical activities in upstream processing of bio-products
- Perform purification of harvested material by downstream processing
- Perform advanced RNA, DNA, and protein analyses in plant and microbial systems.
- Maintain health and safety in the workplace

Course-coordinator
Dr. Gaurav Zinta and Dr. Arun Kumar

Nodal Skill Development Programme
Dr. Gireesh Nadda


For more details about Institute, kindly scan the QR code
Evaluation: Conducted by the Life Sciences Sector Skill Development Council (LSSSDC), a unit of National Skill Development Corporation (NSDC), Govt. of India

Accommodation will be provided on sharing and payment basis, as per the availability

Course Duration: 540 Hours
70 Days Approx

Contact us:
Phone: +91-1894-233339 (Ext.): 346, 401, 495
Fax: +91-1894-230433
Email: skill@csir.res.in
Website: www.ibt.res.in

सीएसआईआर-भारतीय समवेत औषध संस्थान
CSIR-Indian Institute Of Integrative Medicine



औषधीय एवं सुगंधित पौधों (MAPs) के डाउनस्ट्रीम प्रोसेसिंग (निष्कर्षण, गैस क्रोमेटोग्राफी एवं एचपीएलसी तकनीकों पर कौशल विकास) कार्यक्रम
SKILL DEVELOPMENT PROGRAM ON DOWNSTREAM PROCESSING OF MEDICINAL & AROMATIC PLANTS. (EXTRACTION, GAS CHROMATOGRAPHY & HPLC TECHNIQUES)

कार्यक्रम के बारे में/ABOUT THE PROGRAM
औषधीय एवं सुगंधित पौधों (MAPs) के डाउनस्ट्रीम प्रोसेसिंग पर कौशल विकास कार्यक्रम में पौधों से घातक पौधों के निष्कर्षण (Extraction), शुद्धिकरण (Purification) और विश्लेषण (Analysis) का प्रशिक्षण दिया जाता है। प्रतिभागियों को प्राकृतिक उत्पाद अनुसंधान और शुद्धिकरण विश्लेषण में उपयोग होने वाले तकनीकों जैसे गैस क्रोमेटोग्राफी (GC) और हार्ड-परफॉरमेंस लिक्विड क्रोमेटोग्राफी (HPLC) का व्यवहारिक अनुभव भी प्रदान किया जाता है। The Skill Development Program on Downstream Processing of MAPs (Medicinal & Aromatic Plants) under CSIR-Integrated Skill Initiatives provides training in extraction, purification, and analysis of plant-based compounds. Participants gain hands-on experience with analytical techniques such as Gas Chromatography (GC) and High-Performance Liquid Chromatography (HPLC) used in natural product research and quality analysis.

हिमांशिका / Guidelines

- एचपी प्रतिक्रियाओं को मेकअप संरक्षण द्वारा संरक्षित करें; एचपी प्रदान किया जाएगा / Registration Kit and Food for all participants shall be provided by host institute.
- संरक्षण के बारे में ₹11800/- (₹11800 + 18% जीएसटी) का वारंटिनर शुल्क देना होगा (वैधानिक) के साथ प्रवेशीय शुल्क; अतिरिक्त वारंटिनर शुल्क ₹11800/- (₹11800 + 18% GST) must be paid in Institute's account and the receipt needs to be uploaded in the online Registration/Google Form.
- संरक्षण अर्जाएं प्रवेश के आधार पर अधिकतम 15 सीटें उपलब्ध हैं; Maximum of 15 Seats are available on First Come First serve.

कौन आवेदन कर सकता है / WHO CAN APPLY

- वैदिक, दवाशास्त्र, कृषि तथा संबद्ध विद्यालयों में मास्टर (UG), स्नातकोत्तर (PG) और पीएचडी (PhD) की पढ़ाई कर रहे विद्यार्थी / UG, PG & Ph.D Students Pursuing Degrees in Biological, Chemical, Agriculture and Allied sciences.
- विशेष पृष्ठभूमि से पूर्ण कार्यरत, शिक्षण, और एवं अन्य क्षेत्रों में कार्य करने वाले (Working, Academic, Students & Professionals from the science background are also eligible).

पंजीकरण शुल्क / REGISTRATION FEE

- ₹11800/- (एक हजार एक सौ अठ्ठासी रुपये मात्र), सभी लागू शुल्कों सहित / Rupees 11800/- (Rupees One Thousand One Hundred and Eighty Only) inclusive of all applicable charges

यहाँ पंजीकरण करें / REGISTER HERE

- पंजीकरण शुल्क का उपयोग करते हुए पंजीकरण करें / Register Here By Using The Google Form Link: <https://forms.gle/RHBFvhtnmPy5B329>
- या फिर मातृ सूत्र कोट को स्कैन करें / Or Scan The Given QR Code

STARTING FROM: 23rd-25th March 2026

स्थान / VENUE: CSIR-Indian Institute of Integrative Medicine, Srinagar (Br) Sanatnagar

CSIR-CCMB

Skill Development Program
On
"Introduction to IPR and Patents"

23rd - 25th June 2026

Patent → Copyright → Trademarks → Design

CSIR-Center for Cellular and Molecular Biology is conducting a hands-on training on "Introduction to IPR and Patents" (IPRPAT-3) targeted to faculty members/researchers from universities/institutes/industries and interested individuals in the field of Life Sciences, Medical Sciences, Pharmaceutical Science & allied areas. This training is intended to train into various aspects of intellectual property management and it will be supported by lectures along with hands-on exercises by experts to develop a deeper understanding of the concepts.

No. of seats : 10-12
Minimum Qualification : Bachelors in any branch of Life Science / Allied areas
Dates : 23rd - 25th June 2026
Mode of the Course : Hybrid mode
Mode of selection : Application form & Statement of Purpose
Course Fee : Rs. 7,500/- (including GST & Accommodation)
Apply using the link : http://recruitment.ccmb.res.in/training_programs/tdp/
Course Code : IPRPAT-3

Training Curriculum for Course

- Evaluating patentability of inventions
- Mining Patent Literature
- IP databases
- Patent drafting & Filing
- Patent Valuation
- Sequence Listing
- Structuring a Licensing deal
- Technology landscaping
- Technology Assessment


Salient Features of the Training


- Skilled resource persons will provide lectures and hands-on exercises
- One-to-one interaction with the trainers
- Evaluation assignments and Trouble-shooting sessions
- Certificate of participation will be issued to the participants

Training Coordinator:
Dr. Divya Singh
IP Officer
CSIR-CCMB,
Hyderabad


Program Coordinator:
Dr. Archana Bharadwaj Siva
Scientist-G
Nodal Scientist-Skill Development Program
CSIR-CCMB,
Hyderabad.
sdp.ccmb@csir.res.in

Scan to Apply





**CSIR-
NATIONAL
PHYSICAL
LABORATORY**



Under
CSIR-Integrated Skill Initiative
Phase III

Earth Resistance Testing

Principle, Standards and Metrology

National Metrology Institute of India

26th March 2026

Online Mode



FREE Registration
FSTP-3; 26TH MARCH, 2026
<https://forms.gle/4XcYoTduiGZckmR8>
Last Date : 22nd March 2026
satish.nplindia@csir.res.in
011-47091176

https://www.nplindia.org/wp-content/uploads/2025/06/skill_development_25_26.pdf

TOPICS COVERED

- Fundamentals of Earth Resistance
- Earth Resistance Meter Calibration
- Testing Methods
- Standards (IEEE, IEC & IS)
- Earth Resistance Test Certificate
- Practical Case Studies



CSIR-CCMB

Skill Development Program
on
**"Rice Re-Imagined:
Hands on Genome Editing
Masterclass"**

06th – 10th July 2026

CSIR-Centre for Cellular and Molecular Biology shall conduct a hands-on training workshop for five days on "Rice Re-Imagined: Hands on Genome Editing Masterclass" (RICE-1) targeted to faculty members/researchers from universities/institutes/industries and interested individuals in the field of Life Sciences & allied areas. This training is intended to train about the basic techniques of genome editing tool and tissue culture for research in various experiments and supplemented with informative lectures, hands-on training, instrument set-up and data analysis.

No. of seats	15-20
Minimum Qualification	Masters in any branch of Life Science/Allied areas
Dates	6 th – 10 th July 2026
Mode of the Course	In-house training at CCMB
Mode of selection	Application form & Statement of Purpose
Course Fee	Rs. 18,000/- (including GST & Accommodation)
Apply using the link:	http://recruitment.ccmbr.res.in/training_programs/sdp/RICE-1
Course Code	RICE-1

Training Curriculum for Course:

- Foundation and theory of genome editing
- Bioinformatic tools for genome editing
- CRISPR Cas Mechanism
- Cloning of CRISPR constructs
- Plant transformation methods
- Rice tissue culture
- Molecular analysis and screening of edited lines
- Regulatory, ethical and social aspects

Salient Features of the Training:

- ❖ Go Beyond Theory: Move from CRISPR-Cas9 mechanics directly into the wet lab to clone constructs and sequence your results.
- ❖ Precision Design: Master professional bioinformatics tools like SnapGene and CHOPCHOP to engineer high-specificity gRNAs.
- ❖ Rice Transformation Mastery: Gain rare, hands-on experience in *Agrobacterium*-mediated transformation and rice callus regeneration.
- ❖ Design-Your-Target: Design your own target gene and build a complete editing strategy from scratch.
- ❖ Expert Molecular Analysis: Learn to decode mutation profiles and interpret deep sequencing data.
- ❖ Regulatory & Ethics Insight: Navigate the complex landscape of Indian biosafety regulations, IP issues, and trait improvement.
- ❖ Certified Networking: Earn your certificate and build lasting collaborations with peers and mentors from leading institutions.

Training Coordinator: Dr. Himendra Kumar Patel Scientist-F Crop Improvement Lab CSIR-CCMB, Hyderabad.	Program Coordinator: Dr. Archana Bharadwaj Siva Scientist-G Nodal Scientist-Skill Development Program CSIR-CCMB, Hyderabad. sdp_ccmb@csir.res.in
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Apply on www.nplindia.org

<https://nclsdpc.ncl.res.in/>

CSIR INTEGRATED SKILL INITIATIVE

CSIR-NCL SKILL DEVELOPMENT PROGRAM

"Advanced Chromatographic Techniques"



High Performance Liquid Chromatography
Liquid Chromatography-Mass Spectrometry
Gas Chromatography-Mass Spectrometry
Gas Chromatography

ABOUT COURSE
Chromatography, a crucial technique extensively employed in industry and research that facilitates the separation, identification and purification of components of mixture for both qualitative and quantitative analysis. This course offers comprehensive training on these various chromatographic techniques.

COURSE CONTENT

- Gas Chromatography
- Gas Chromatography-Mass Spectrometry
- High Performance Liquid Chromatography
- Liquid Chromatography-Mass Spectrometry

PRIME INSTRUCTOR & TEAM
Dr. Sanjay Borikar
Dr. Nilakshi Sadavarte
Dr. Snehal More

COURSE DETAILS
Duration: 2 Weeks
Dates: 06th April 2026 - 19th April 2026
No. of Seats: 10
Eligibility: M.Sc./Chemical & Life Sciences (Completed), M.Phil. (Completed), Last date of registration: 29th March 2026
Course Fee: Students: ₹,440/-; Faculty: ₹,600/-; Industrial Professionals: ₹,9,200/- (The Fee stated includes 5% GST)
Accommodation: 2 weeks + 2 days with affordable charges

FOR WHOM

- Students
- Academic Researchers
- Industrial Professionals

HOW TO APPLY
Application form is available at - <http://www.ncl-india.org/files/SDP/Default.aspx>

Here is the reason why **WHY CHOOSE US**

- More weightage on hands-on practice
- Interactive sessions
- Robust & sustainable training module
- Affordable fee structure
- Brief on career options
- Networking

<https://nclsdpc.ncl.res.in/>
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Dr. Homi Bhabha Road, Pashan,
Pune-411008

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CSR Sponsor



LATEST
NEWS

तकनीक के साथ युवाओं को देंगे सॉफ्ट स्किल और एआई प्रशिक्षण

लखनऊ। प्रदेश के युवाओं व आईटीआई के छात्रों को भविष्य की जरूरतों के अनुरूप कौशल प्रशिक्षण के साथ ही अब सॉफ्ट स्किल, मंच कला व एआई प्रशिक्षण भी दिया जाएगा। इसके लिए कौशल विकास मिशन ने शुक्रवार को छह संस्थाओं के साथ एमओयू किया है।

राजधानी स्थित मिशन मुख्यालय में आयोजित कार्यक्रम में मिशन निदेशक पुलकित खरे व संयुक्त निदेशक मयंक गंगवार की उपस्थिति में एमओयू पर हस्ताक्षर किए गए। इसके तहत भारतेंदु नाट्य अकादमी, हेल्ड हाई फाउंडेशन, मैजिक वम इंडिया फाउंडेशन, द अप्रेंटिस प्रोजेक्ट, ओरेकल तथा रेना एजुकेशन फाउंडेशन के साथ



कौशल विकास मिशन ने छह संस्थाओं से किया एमओयू

समझौते किए गए हैं। इन संस्थाओं के सहयोग से प्रदेश के विभिन्न मंडलों में युवाओं को रोजगारपरक प्रशिक्षण दिया जाएगा। मिशन निदेशक ने बताया कि यह पहल प्रदेश के युवाओं को भविष्य के लिए तैयार करने में एक महत्वपूर्ण कदम है। व्यूटे

ईएसओ इंटर्नशिप प्रोग्राम-2025

यूरोपीय दक्षिणी वेधशाला (ईएसओ) इंटर्नशिप प्रोग्राम 2025 के लिए आवेदन आमंत्रित किए जा रहे हैं। विज्ञान, इंजीनियरिंग, संचार, प्रशासन, भौतिकी,

खगोल विज्ञान, सॉफ्टवेयर और आईटी सहित अन्य क्षेत्रों में इंटर्नशिप करने के इच्छुक स्नातक के छात्र इसमें आवेदन कर सकते हैं। इंटर्नशिप की अवधि छह माह निर्धारित की गई है। प्रोग्राम को मूल्यवान शोध अनुभव प्रदान करने और शीर्ष वैज्ञानिक अनुसंधान तक पहुंच बनाने के उद्देश्य से डिजाइन किया गया है, ताकि प्रतिभागियों को शोध परियोजनाओं में योगदान देने का अवसर मिल सके। यह इंटर्नशिप पूरी तरह से वित्तपोषित है, जिसमें उम्मीदवारों के सभी खर्चों को वहन किया जाएगा। योग्य छात्र आधिकारिक लिंक recruitmenteso.org पर जाकर 31 दिसंबर, 2025 तक ऑनलाइन माध्यम से आवेदन कर सकते हैं।

इंटर्नशिप अलर्ट

दैनिक भास्कर

पर्यावरण प्रबंधन की रणनीति की अब मिलेगी पूरी जानकारी

भास्कर संवाददाता | नागपुर

जलवायु परिवर्तन, भूमि क्षरण, वायु एवं जल प्रदूषण, जैव विविधता में कमी और संसाधनों के प्रबंधन आदि चुनौतियों के समाधान में कम्प्यूटेशनल तकनीकों के उपयोग को बढ़ावा देना जरूरी है। इसलिए

■ एआई व हाई- परफॉर्मेंस कंप्यूटिंग से ग्रीन स्किल प्रशिक्षण

सीएसआईआर-नीरी द्वारा प्रशिक्षण कार्यक्रम आयोजित किया जा रहा है। इसमें प्रतिभागियों को एआई और हाई-परफॉर्मेंस कंप्यूटिंग की मदद से

बड़े पर्यावरणीय डेटा के विश्लेषण, रियल-टाइम मॉनिटरिंग, पूर्वानुमान मॉडलिंग तथा पर्यावरण प्रबंधन की रणनीतियों के बारे में जानकारी दी जाएगी। यह ग्रीन स्किल प्रशिक्षण कार्यक्रम 23 व 24 अप्रैल को नीरी परिसर, नेहरु मार्ग में आयोजित होगा। कार्यक्रम में शोधकर्ता, शिक्षाविद, उद्योग से जुड़े पेशेवर और नीति-निर्माता भाग ले सकते हैं। इसमें मशीन लर्निंग, डीप लर्निंग, प्रेडिक्टिव एनालिटिक्स तथा एआई आधारित पर्यावरणीय विश्लेषण की व्यावहारिक जानकारी से अवगत कराया जाएगा। इसके लिए प्रशिक्षण पाठ्यक्रम में अलग-अलग विषयों का समावेश किया गया है। विज्ञान या इंजीनियरिंग में स्नातक उम्मीदवारों का पहले आओ-पहले पाओ के आधार पर चयन किया जाएगा।

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