

# CSIR SKILL BULLETIN

(A FORTNIGHTLY E-PUBLICATION)  
**सीएसआईआर कौशल पत्रक**  
 (पाक्षिक ई-प्रकाशन)



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## CONTENT

PgNo.

- Skill Trainings: 2-7
- Upcoming Trainings : 8-12
- Skill Development Highlights in Print Media : 13
- General Updates : 14
- Glimpses : 15
- Useful Links : 16

## HIGHLIGHTS

- No. of SDP Conducted: 25
- No. of Participants Trained: 624
- No. of Upcoming Trainings: 18
- Skill Area Focus: 25



CSIR-NGRI



CSIR-CIMFR



CSIR-IITR



CSIR-NEERI



CSIR-NIIST



CSIR-IIIM



CSIR-CBRI



CSIR-CDRI

IMAGES: Participants and Directors in various 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-NCL**, Pune successfully organised a two-week Skill Development Programme on **“Food Safety & Quality Assessment”** during the period **09<sup>th</sup> - 20<sup>th</sup> February, 2026**. A total of **8** candidates participated in the programme. The course focused on the isolation and identification of microorganisms from contaminated food samples using both phenotypic and molecular techniques for bacteria, fungi, and yeast. It included hands-on training in 16S/18S rRNA gene sequencing and Oxford Nanopore sequencing. Participants were also introduced to chromatography principles, HPLC instrumentation, method development etc. Practical sessions covered quantitative assessment of mycotoxins, antibiotics, pesticide residues, by-product analysis, method validation, and statistical analysis to ensure food quality and safety.

**CSIR-CIMAP**, Lucknow organized a seven-day Bioinformatics Skill Development Training Programme on **“Plant’s Transcriptome Data Analysis & Functional Annotation”** during the period **16<sup>th</sup> - 22<sup>nd</sup> February, 2026** under CSIR Integrated Skill Initiative. Integrating Plants Transcriptome (RNA-Seq) Data Analysis and Functional Annotation with Functional Genomics for novel metabolic pathway genes identification. The programme witnessed enthusiastic participation from **34** participants from Srinagar, Lucknow, Kharagpur, Aligarh, Motihari, Kanpur, Prayagraj, Jaunpur, and New Delhi. The workshop aimed to investigate specialized metabolite biosynthesis in plants and establishing a data-mining framework.



**CSIR-NIIST**, Thiruvananthapuram conducted a five-day Skill Development Training Programme on **“Design, Build, Test and Learn - Recombinant DNA Technology”** during the period **09<sup>th</sup> - 13<sup>th</sup> February, 2026** under CSIR Integrated Skill Initiative. The intensive, hands-on offline programme trained UG/PG/PhD scholars, faculty in in-silico DNA design, gene cloning fundamentals, PCR optimization, cloning vectors (plasmids, BAC, YAC, shuttle vectors), Gibson Assembly, transformation, screening, and data analysis. **10** students participated in the training programme. With limited seats ensuring focused mentoring, the course strengthened participants’ readiness for careers in biopharmaceuticals, synthetic biology, genetic engineering, and biotech R&D.

**CSIR-CIMFR**, Dhanbad conducted a four-day Skill Development Programme on **“Precise Surveying Using Modern Equipment”** during the period **17<sup>th</sup> - 20<sup>th</sup> February, 2026** for final-year students of Government Polytechnic Bhaga and Dhanbad. Prof. Arvind Kumar Mishra, Director CSIR-CIMFR, emphasized the importance of precise surveying in mining, civil engineering, infrastructure, and advanced applications like satellite launching. The programme began with a welcome address by Dr. Jitendra Kumar Singh, followed by expert insights from Mr. Amar Nath, Mr. Dilip Kumbhakar and Dr Amar Praksh. With **25** students participating, the initiative highlights CSIR-CIMFR’s commitment to bridging academia and industry through innovation, practical skills, and career readiness.





CSIR-IITR, Lucknow organised a workshop on “**Safety and Risk Assessment of Cosmetics and Personal Care Products**” during the period 16<sup>th</sup> - 17<sup>th</sup> February, 2026 under the CSIR-Integrated Skill Initiative. A total of 17 participants attended the workshop. The inaugural session of the workshop began with a welcome address by Dr. Ravi Ram Kristipati (Nodal Scientist, Skill Development Programmes, CSIR-IITR). The Course coordinators for the workshop were Dr. Ashish Dwivedi (Senior Scientist, CSIR-IITR) and Dr. A.B. Pant (Chief Scientist, CSIR-IITR). The two-day programme focused on cosmetic formulation, safety evaluation, and regulatory assessment in line with OECD guidelines and Indian regulations. Interactive question hours and practical sessions enhanced participant understanding of alternative in vitro methods.

CSIR-NEERI, Nagpur organised a Green Skill Programme on “**Environment Management (EM)**” during the period 18<sup>th</sup> - 19<sup>th</sup> February, 2026. Dr. S. Venkata Mohan, Director, CSIR-NEERI inaugurated the programme and addressed the participants on water resources management, air quality issues, land & wastewater management, treatment technologies, etc. 15 students benefited from this training programme. Dr. Harshvardhan Singh, Scientist-G & Incharge, Skill Development Centre and Course Coordinator briefed about Green Skill Development activities and course contents. Participants from various organizations, representing both rural and urban areas of Bihar, Haryana, Maharashtra, Uttar Pradesh, Chhattisgarh, Gujarat, Kerala, Tamil Nadu, Odisha, Uttarakhand, West Bengal, Telangana and Ladakh participated in the programme, which included technical presentations.



CSIR-NIIST, Thiruvananthapuram conducted a two-day skill training programme on “**Application of Process Engineering in Sustainable Energy and Environmental Management**” during the period 11<sup>th</sup> - 12<sup>th</sup> February, 2026 (hybrid mode). This programme was organised with the objective of strengthening technical competencies and promoting capacity building in emerging areas of sustainable energy and environmental management. The sessions comprehensively addressed key aspects of process engineering applications in renewable energy systems, green technologies, waste valorization, process optimization and environmental sustainability. 27 students benefited from this training programme.

CSIR-IIIM, Srinagar concluded a three-day Skill Development Programme on “**Drug Discovery and Biomedical Research**” at its Srinagar branch under the CSIR Integrated Skill Initiatives during the period 16<sup>th</sup> - 18<sup>th</sup> February, 2026. The programme was attended by 15 participants. The hands on training focused on biological assays and in vivo mice experiments, bringing together early career researchers, laboratory professionals and students. The programme was led by Dr. Fayaz Malik, Chief Scientist, along with his research team. Participants received practical training in assay design, in vitro techniques, advanced biological assays, ELISA, enzymatic activity studies, dose response analysis and basic pharmacokinetic sampling. Sessions emphasized experimental design, data integrity, reproducibility and troubleshooting.





CSIR-IITR, Lucknow organised a two-day workshop on “ISO/IEC 17025:2017 general requirements for the competence of testing and calibration laboratories” during the period 11<sup>th</sup> - 12<sup>th</sup> February, 2026, under the CSIR-Integrated Skill Initiative. A total of 23 participants attended the workshop. The inaugural session of the workshop began with a welcome by Dr. Ravi Ram Kristipati (Nodal Scientist, Skill Development Programmes, CSIR-IITR) and remarks by Dr. Bhaskar Narayan (Director, CSIR-IITR). The Course coordinators for the workshop were Dr. D.K. Patel, Dr. Rachna Kumar and Dr Akhilesh Kumar Yadav. The sessions covered NABL/QCL, QA/QC, and importance of laboratory management system and many more.

CSIR - IHBT, Palampur conducted, an outreach activity at Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab on “Hydroponics for Sustainable Food Production: A Green Technology for the Future” under CSIR-Integrated Skill Initiative (Phase-III), during the period 12<sup>th</sup> - 13<sup>th</sup> February, 2026. Hands-on training and practical exposure to hydroponic systems, nutrient management, and resource-efficient cultivation was provided by Dr. Ashish Warghat to 75 undergraduate, postgraduate, and high school students for enhancing their skills and awareness in innovation-driven agricultural practices.



CSIR-NML, Jamshedpur has successfully completed a five-day training programme titled "Chemical Analysis of Ores, Minerals and Metals" during the period 16<sup>th</sup> - 20<sup>th</sup> February, 2026 under the CSIR-Integrated Skill Initiative. This skill development initiative targeted candidates having a B. Sc and M. Sc in Chemistry. A total of 25 candidates participated in the programme out of which 10 are female candidates. Chemical Analysis of Ores, Minerals and Metals involves determining the elemental composition and purity of raw geological materials, processed metallic products.

CSIR-NGRI, Hyderabad successfully conducted an eight-day CSIR Integrated Skill Development Programme on “Basic and Hands-on Training Using Non-Invasive Electrical and Electromagnetic Geophysical Exploration for Groundwater Research” during the period 02<sup>nd</sup> - 09<sup>th</sup> February, 2026. The programme provided participants with foundational knowledge and practical training in electrical and electromagnetic methods for groundwater exploration, including field data acquisition and interpretation. 27 participants got benefitted out of this training programme. The programme also strengthened technical collaboration and knowledge exchange among participants from different organizations. It is expected to enhance the application of advanced geophysical techniques in groundwater resource assessment and sustainable water management.



CSIR-IMMT, Bhubaneswar conducted a three-day Skill Development Training Programme on “Biophysical and Microbiological Techniques” during the period 18<sup>th</sup> - 20<sup>th</sup> February, 2026 under CSIR Integrated Skill Initiative. The programme witnessed enthusiastic participation from students and research scholars, providing them with hands-on exposure to advanced laboratory techniques and instrumentation. The programme witnessed the participation of 28 trainees.

CSIR-IIIM, Jammu conducted a three-day Skill Development Training Programme on **“Laboratory Animal Techniques for Preclinical Experiments”** under CSIR Integrated Skill Initiative during the period 24<sup>th</sup> - 26<sup>th</sup> February, 2026. Total 40 participants joined from across the country. The programme provided hands-on training in laboratory animal handling, dosing, sample collection, ethical compliance, and essential experimental techniques including DNA, RNA, and protein isolation, along with basic histopathology. This initiative aimed to strengthen technical expertise, promote ethical research practices, and enhance capacity building in biomedical and life sciences research.



CSIR-IIIM, Jammu successfully concluded a four-day intensive hands-on training programme on **“Medicinal plant extraction and formulation under CGMP standards”** during the period 17<sup>th</sup> - 20<sup>th</sup> February, 2026 under the CSIR Integrated Skill Initiative. A total of 15 candidates participated in the programme. The programme was conducted under the leadership of Dr. Zabeer Ahmed, Director, CSIR-IIIM Jammu, who emphasized the need to integrate India’s traditional medicinal knowledge with modern regulatory frameworks and global quality standards. Participants from across India - including PhD scholars, postgraduate students, research associates and startup founders-received end-to-end industrial exposure, covering solvent extraction, tablet, capsule and syrup formulation, quality control, stability studies and GMP-compliant manufacturing practices.

CSIR-CBRI, Roorkee conducted a five-day intensive training programme on **“Earthquake Retrofitting Techniques and DPR Preparation”** during the period 23<sup>rd</sup> - 27<sup>th</sup> February, 2026 sponsored by HPSDMA for the participants of Himachal Pradesh coordinated by Sh. Ashish Pippal, Principal Scientist. A total of 34 candidates participated in the programme. Marking a historic milestone, for the first time in CBRI, a special on-site practical demonstration of live house retrofitting has been conducted under the expert guidance of the CBRI team. An exceptional initiative that exemplifies the institute’s national leadership in disaster mitigation research and its commitment to translating advanced scientific expertise into real-world field application, significantly enhancing the hands-on technical capacity of participants.



CSIR-CECRI, Karaikudi organised a three-day Special Skill Development Training Programme on **“Chromatography and Spectroscopy”** during the period 23<sup>rd</sup> - 25<sup>th</sup> February, 2026 under the aegis of CSIR Integrated Skill Initiative. The skill development programme on Chromatography and spectroscopy are essential, often combined, analytical techniques used to separate, identify, and quantify chemical substances. Chromatography (e.g., HPLC, GC) separates complex mixtures based on differential distribution between mobile and stationary phases, while spectroscopy (e.g., IR, NMR, MS) identifies molecules based on their interaction with electromagnetic radiation or mass-to-charge ratios. This programme was attended by 38 participants by covering different parts of Tamil Nadu in India.

**CSIR-IMMT**, Bhubaneswar organised a three-day skill development programme on **“Recent Advances in Melting, Casting and Characterization Techniques (RAMCT)”** during the period **23<sup>rd</sup> - 25<sup>th</sup> February, 2026**. The programme was inaugurated by the Chief Guest, Prof. Omkar Nath Mohanty, Director, RSB Metaltech, RSB Group, along with the Guest of Honour, Dr. Debasish Deb, Former Executive Director, HAL and Consultant, ABI Showatech (TVS) in the presence of Dr. Laxmidhar Besra, Chief Scientist, the senior-most scientist of the laboratory, and the programme coordinators Dr. A. K. Chaubey and Dr. Ajit Panigrahi. Dr. Besra warmly welcomed all participants, guests, scientists, and staff members present at the inaugural session. Dr. Chaubey outlined the objectives and structure of the three-day programme and emphasized practical significance. The programme witnessed the participation of **20** trainees (17 male and 3 female participants). The category-wise distribution included UR - 14, SC - 4, and OBC - 2.



**CSIR-CIMAP**, Lucknow successfully organised a seven-day Bioinformatics skill development training programme entitled **“Plant's Transcriptome (RNA-Seq) Data Analysis & Functional Annotation”** under CSIR Integrated Skill Initiative project during the period **16<sup>th</sup> - 22<sup>nd</sup> February, 2026**. A total of **37** participants from 9 cities and 5 states were trained. 5 participants joined training through online mode. Invited expert talks given by Drs. Sanjay Kumar, Sumit Ghosh, Ashutosh K. Shukla, Pradipto Mukhopadhyay, Swati Tyagi, and Aman C. Kaushik. Thanks to the Director, CIMAP, Coordinator, SDP, Admin, Purchase, Finance, ICT div., HRD, Canteen, Guest House, Security, and Transport team for your kind support. The programme provided hands-on exposure to advanced RNA-Seq data analysis tools and strengthened participants' understanding of transcriptome research and functional genomics. The training concluded with an interactive feedback session, where participants appreciated the comprehensive curriculum and practical learning experience.



**CSIR-NIO**, Goa, organized a four-day skill training programme titled **“Hands-on Training on Marine Bacterial Identification”** during the period **17<sup>th</sup> - 20<sup>th</sup> February, 2026** under CSIR Integrated Skill Initiative Phase-III at the Skill Development Centre, CSIR-NIO, Goa. The training programme provided comprehensive hands-on exposure to marine bacterial identification using both traditional and molecular techniques. Participants gained practical experience in field sampling, biochemical characterization, DNA extraction, PCR, and gel electrophoresis, along with bacterial isolation and purification methods. The programme concluded with a quiz and an interactive session to reinforce key concepts and practical insights. The programme witnessed enthusiastic participation from **14** students representing various colleges all over India. The Skill Programme was coordinated by Dr. Rakhee Khandeparker (Skill Nodal & Senior Principal Scientist, Biological Oceanography Division) and Dr. Supriya Tilvi (Senior Principal Scientist, Chemical Oceanography Division).





CSIR-CDRI, Lucknow organised a three-week Skill Development Programme on “**Care, Management of Laboratory Animals & Experimental Techniques**” under the CSIR-Integrated Skill Initiative during the period **03<sup>rd</sup> - 20<sup>th</sup> February, 2026**. This certificate course offers a unique and valuable opportunity for individuals seeking skill development and foundational training in laboratory animal science like Management and operation of laboratory animal facilities, Routine care, handling, husbandry practices for various laboratory animal species, Essential experimental procedures and techniques, Quality control and assurance processes, Good Laboratory Practices (GLP) and regulatory compliance. **18** candidates participated which were from different states of India.

CSIR-NGRI, Hyderabad conducted a Skill India Training course on “**Advanced Training Programme on Groundwater Quality (ATPGWQ)**” during the period **10<sup>th</sup> - 20<sup>th</sup> February, 2026** under the aegis of CSIR-Integrated Skill Initiative. The course was coordinated by Dr. Atulya Kumar Mohanty, Principal Scientist, and Dr. K. Rama Mohanty, Sr. Principal Scientist. The training course was attended by **22** participants from various universities across India, like Farooq College (Autonomous), Calicut University, Kozhikode, Kerala; University of Calicut; Kashmir University, Srinagar; Rama Devi Women’s University, Bhubaneswar; Central University of Tamilnadu, Central University of South Bihar; GITAM University; University of Delhi; Yogi Vemana University, Kadapa, Andhra Pradesh; Indira Gandhi National Tribal University, Amarkanatak, Madhya Pradesh; and Pondicherry University.



CSIR-NIIST, Thiruvananthapuram successfully conducted a one-week MSME-sponsored A-ESDP programme on “**Life Cycle Assessment and Carbon Credits Quantification**” during **9<sup>th</sup> - 13<sup>th</sup> February, 2026**. **24** participants, shortlisted through a rigorous online test and LCA evaluation, underwent intensive training on Carbon Credits, CBAM, ESG, and hands-on LCA using OpenLCA & SimaPro. The programme saw participation from UltraTech Cement, IIM Bangalore, NIT Bhopal, ONGC, and sustainability-focused startups.

CSIR-NCL, Pune successfully organized a one-week Skill Development Program (SDP) on “**Lithium-ion Battery Cells: Fundamentals to Fabrication**” during the period **23<sup>rd</sup> - 27<sup>th</sup> February, 2026**, training a total of **20** participants. The participants included students, academic faculty, and representatives from reputed industries. The program covered the fundamentals of lithium-ion batteries, including their working principles, components, and performance characteristics.



CSIR-NCL, Pune successfully organized a one-week Skill Development Program (SDP) on “**Analytical Techniques for Material Characterization**” during the period **23<sup>rd</sup> - 27<sup>th</sup> February, 2026**, training a total of **13** students. This program was specifically designed at the request of MIT World Peace University (MIT-WPU), Pune for Master’s students to build technical competency and enhance analytical skills in modern techniques widely used in research, academia, and industry.



**Advanced Course on Transmission & Telecommunication Towers: Design, Retrofitting, and Future Trends (ACTT 2026)**  
4<sup>th</sup> - 6<sup>th</sup> March 2026  
(under CSIR Integrated Skill Initiative)

Organized by  
**CSIR-Structural Engineering Research Centre**  
(An ISO 9001:2015 Certified Organization)  
CSIR Campus, Taramani, Chennai-600113, India

**About CSIR-SERC**  
CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, is one of the national laboratories under the Council of Scientific & Industrial Research, India. CSIR-SERC has built up excellent facilities and expertise for analysis, design and testing of structures and structural components. Services of CSIR-SERC are being extensively used by the Central and State Governments and public and private sector undertakings. Scientists of CSIR-SERC serve on many national and international committees and the Centre is recognized at the national and international levels as a leading research institution in the field of structural engineering.

**Tower Testing & Research Station (TTRS),** a world-class facility of CSIR-SERC, Chennai, established in 1984, is dedicated to advanced research on towers and tower-like structures that form the backbone of power transmission and communication systems. Since its inception, CSIR-SERC has played a pioneering role in addressing the complex challenges associated with the analysis, design, and testing of transmission towers and their components. Located at Tiruvalur (opposite Chennai Airport), within a unique horse-shoe-shaped erstwhile granite quarry, TTRS is equipped with state-of-the-art facilities and high-level R&D expertise to support full-scale testing, design validation, and performance evaluation of tower structures, and is today recognized as one of the leading tower testing and research facilities in the world.

**Background**  
Transmission and telecommunication towers are critical infrastructure for reliable power and communication networks essential to national development. Rising system voltages, corridor limitations, extreme climatic loads, aging assets, and the need for rapid post-failure restoration have significantly increased the complexity of tower design, assessment, and upgradation. TTRS, CSIR-SERC, Chennai, has been at the forefront in addressing these challenges through focused research on optimal tower configurations, alternative materials and cross-sections, strengthening and retrofitting of towers, failure analysis and mitigation, emergency restoration systems, and hybrid structural solutions. In this context, there is a growing need to foster knowledge sharing among professionals, encourage peer-level technical exchange, and familiarize early-career engineers with current best practices and emerging directions in transmission and telecommunication infrastructure.

**Objectives**  
The course aims to enhance participant's competence in the analysis, design, testing, and performance evaluation of transmission and telecommunication towers, with emphasis on modern design philosophies, code-based practices, and emerging trends. It also seeks to impart knowledge on advanced retrofitting, failure mitigation, and emergency restoration solutions by integrating analytical, experimental, and practical perspectives.

**Faculty**  
The faculty for the course will primarily comprise scientific experts from CSIR-SERC, along with select experts from industry.

**Prerequisites**  
The course registrants can ensure adequate knowledge on the background to course contents to fully exploit the benefits of attending the advanced course.

**Venue & Duration**  
Training and Development Complex, CSIR-SERC, Chennai. Timing: 9.30 a.m. to 5.30 p.m.

**Registration and Fee**  
Rs. 3000/- per participant inclusive of GST for working professionals, Rs. 1500/- for student participants and US \$ 450/- for foreign delegates. Presentation material (in .pdf format) and participation certificate will be provided to all the registered participants. The course registration can be completed via online form in the URL: below: <https://serc.res.in/course>

**Travel, Boarding and Lodging Arrangements**  
The participants or their sponsoring organizations must bear travel, boarding and lodging expenses. Limited accommodation in the Guest House/Trainee's Hostel at CSIR-SERC Campus may be arranged on a first-come-first-served basis at extra cost. Participants wishing to avail of this facility are advised to write to the course coordinator well in advance, and in any case, not later than 15<sup>th</sup> February 2026.

**Course Coordinators**  
Dr. M. Saravanan & Mr. S. Vinoth Krishnan,  
Tower Testing & Research Station,  
CSIR-Structural Engineering Research Centre  
CSIR Campus, Taramani, Chennai - 600113

**Contact Us**  
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Scan QR code for course promo

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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  
**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 other 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-coordinator**  
Dr. Ashish R. Warghat

**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.

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

**Course Start Date: 01<sup>st</sup> June, 2026**

Last date of receiving application: 30.04.2026  
Course fee : Rs. 19000/-  
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.

**Contact us:**  
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Website: [www.ibbt.res.in](http://www.ibbt.res.in)

**CSIR-CCMB**

**Skill Development Program**  
On  
**"LC-MS based Proteomics"**  
23<sup>rd</sup> – 28<sup>th</sup> 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.

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

**Training Curriculum for Course:**

- Basic operational fundamentals of liquid chromatography, mass spectrometry, and LC/MS 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/deslating, 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. Swasti 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](mailto: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: 15<sup>th</sup> 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**

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 Website: [www.ibht.res.in](http://www.ibht.res.in)

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

**CSIR INTEGRATED SKILL INITIATIVE**

**CSIR-NCL SKILL DEVELOPMENT PROGRAM**

**“Women’s Day Special Batch Polymer Characterisation by GPC techniques”**



**INTERNATIONAL DAY OF WOMEN AND GIRLS IN SCIENCE**

**ABOUT COURSE**  
 Gel permeation chromatography (GPC) is used in various industries like polymer, pharmaceutical, food, materials etc. It is the essential and important analytical technique used for molecular characterization. GPC is the most powerful method for determining average molecular weight and polydispersity of polymer samples. This course provides a detailed knowledge of theory, sample preparation, data generation, analysis, report generation and trouble shooting etc. The determination of molecular weight by gel permeation chromatography. After successful completion of the course the candidate will be able to analyse and interpret the data and also acquire sufficient awards.

**COURSE CONTENT**  
 GPC- Introduction to GPC Technique, History and Development, Pump, Column and detectors, Sample method development, Live demonstration of sample run, Analysis and troubleshooting etc.

**FOR WHOM**

- Students
- Academic Researchers
- Industrial Professionals

**PRIME INSTRUCTOR**  
**Mrs. Poorvi Purohit**  
 Sr. Technical Officer  
 Polymer Science And Engineering

**COURSE DETAILS**  
 Duration- 2 Days  
 Dates- 30<sup>th</sup> March - 31<sup>st</sup> March 2026  
 No. of Seats- 10  
 Eligibility- M. Sc., M. Pharm., B. E., B. Tech., M. E., M. Tech  
 Course Fees- Free of cost on the occasion of Women’s Day  
 Accommodation- 500/- for 2 days

**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

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<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)

**FOR WHOM**

- Students
- Academic Researchers
- Industrial Professionals

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

**COURSE DETAILS**  
 Duration- 2 Days  
 Dates- 23<sup>rd</sup> March- 24<sup>th</sup> 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

**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

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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

**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: 15<sup>th</sup> June, 2026**

**Course Includes:**

- Prepare for the cultivation of flower crop
- Propagate flower plant saplings
- Harvest, transport 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**

**Contact us:**  
 Phone: +91-1894-233339 (Ext.) 318; 346  
 Fax: +91-1894-230433  
 Email: [skill\\_ibht@csir.res.in](mailto:skill_ibht@csir.res.in)  
 Website: [www.ibht.res.in](http://www.ibht.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><b>COURSE CO-ORDINATOR</b> <b>Dr. Debabrata Maity</b> Scientist-D dmaity.iict@csir.res.in</p>	<p><b>HEAD-DEPT OF NPMC</b> <b>Dr. Sandip B. Bharate</b> Scientist-G sbharate.iict@csir.res.in</p>
--------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------

Nodal Officer- Skill Development  
CSIR-Indian Institute of Chemical Technology,  
Tarnaka, Uppal Road,  
Hyderabad - 500 007, Telangana, India

[sdp@iict.res.in](mailto: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: 15<sup>th</sup> June, 2026**

**Course Includes:**

- 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

**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

**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\\_iibt@csir.res.in](mailto:skill_iibt@csir.res.in)  
Website: [www.iibt.res.in](http://www.iibt.res.in)





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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

**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: 18<sup>th</sup> June, 2026**

**Course Includes:**

- 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



**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

**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\\_iibt@csir.res.in](mailto:skill_iibt@csir.res.in)  
Website: [www.iibt.res.in](http://www.iibt.res.in)

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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

**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: 16<sup>th</sup> March, 2026**

**Course Includes:**

- 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

**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**

Last date of receiving application: 05.03.2026  
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

**Course Duration: 270 Hours**  
45 Days Approx

Contact us:  
Phone: +91-1894-233339 (Ext.) 453, 346  
Fax: +91-1894-230433  
Email: [skill\\_ibht@csir.res.in](mailto:skill_ibht@csir.res.in)  
Website: [www.ibht.res.in](http://www.ibht.res.in)

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CSIR - Institute of Himalayan Bioresource Technology  
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)**  
Call for Applications for Course of

**Bioinformatics Associate/ Analyst**

Course code: LFS/Q3904; NSQF level: 5

A Bioinformatics Associate/Analyst performs data mining and transformation using statistical tools and programming scripts, organizing results in specified formats. The role involves coordinating with managers and cross-functional teams to achieve project objectives. They may work on open-source programming, dry lab genomic and metagenomic pipeline analysis, data quality assessment, variant interpretation, and pipeline customization. A strong foundation in data analysis, AI and Large Language Models (LLMs) is essential for meaningful data interpretation in bioinformatics.

**Course Highlights:**

- Discusses about life sciences sector and basics of Bioinformatics Occupation
- Utilize Bioinformatics Databases for Data Retrieval and Biological Interpretation
- Apply Computational Bioinformatics Tools for Sequence and Structural Analysis
- Use statistical tool and programming scripts for data mining and transforming data
- Coordinate with Supervisors and Other Cross-functional team members
- Employability Skills
- Development and application of Algorithm for AI and ML
- Apply Machine Learning and Computational Strategies for Big Data Interpretation

**Course Start Date:** 31<sup>st</sup> March, 2026  
**Course duration:** 510 hours; 75days (approx.)

**Last Date of Application:** 9<sup>th</sup> March, 2026  
**Course Fee :** Rs. 5000/-  
**No. of seats :** 05

**Minimum Educational qualification:** Completed 2nd year of UG (UG Diploma) (Graduation in Science subjects Bioinformatics/ Biotechnology)

OR

Completed 2nd year of UG (UG Diploma) (B Tech in Biotechnology/ Bioinformatics/ Biomedical Engineering/ Computational Science)

**Course-coordinator: Dr. Vishal Acharya**  
**Nodal Skill Development Programme:**  
Dr. Gireesh Nadda

**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**

Contact us: +91-1894-233339 (Ext.) 493, 346  
Email: [skill\\_ibht@csir.res.in](mailto:skill_ibht@csir.res.in)  
Website: [www.ibht.res.in](http://www.ibht.res.in)

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

CSIR INTEGRATED SKILL INITIATIVE

CSIR-NCL SKILL DEVELOPMENT PROGRAM

Quality Control Chemist

**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)

**FOR WHOM**

- Students
- Academic Researchers
- Industrial Professionals

**HOW TO APPLY**

Application form is available at - <https://www.ncl.res.in/files/2DP/Details.aspx>

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

**COURSE FEES**

Students - 10,620 /-  
Faculty - 17,700 /-  
Industrial Professional - 20,800 /-  
(The fees stated include 18% GST)  
Accommodation-2 weeks + 2 days with affordable charges

**COURSE DETAILS**

Duration: 2 weeks  
Dates: 23<sup>rd</sup> March - 02<sup>nd</sup> 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**

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[nclsdpc.ncl@csir.res.in](mailto:nclsdpc.ncl@csir.res.in)

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Dr. Homi Jhabinth Road, Pashan,  
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**

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: 03<sup>rd</sup> June, 2026**

**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

**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**

Last date of receiving application: 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 Duration: 540 Hours**  
70 Days Approx

Contact us:  
Phone: +91-1894-233339 (Ext.): 346, 401, 495  
Fax: +91-1894-230433  
Email: [skill\\_ibht@csir.res.in](mailto:skill_ibht@csir.res.in)  
Website: [www.ibht.res.in](http://www.ibht.res.in)



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CSIR - NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY (NIIST)  
Industrial Estate, Pappanamcode Thiruvananthapuram



Three-Day Hands-On Workshop for Undergraduate Students



## FOUNDATIONS OF DEEP LEARNING FOR PREDICTIVE ANALYTICS

6 - 8 March 2026  
CSIR-NIIST Thiruvananthapuram



**Who Can Attend**

- Undergraduate students (3rd-4th year) from Engineering, Science, Mathematics and Computer Applications
- Students aspiring for careers in AI, ML, Data Science, and Computational Research
- Basic familiarity with computer programming is recommended.

**Tools & Technologies**

Python, NumPy, Pandas, Matplotlib, Seaborn, SciKit-Learn, PyTorch, Torchvision, Optuna, OpenCV, Numpy, Time Series & Image Datasets

**Pedagogy**

- 40% Conceptual Lectures (mathematical intuition & model theory)
- 60% Guided Hands-On Coding Sessions
- Live demonstrations, code walkthroughs, and project mentoring.

**Registration fees**

- Students: ₹2000
- Researchers: ₹8000

**Contact**

Apply Online : <http://sdp.niist.res.in>

Dr. Ramesh K. V. Chief Scientist, CSIR-NIIST, AI & ML Unit  
Dr. Anun Kumar Principal Scientist, CSIR-NIIST, AI & ML Unit  
@niscsirniist@gmail.com  
7726854427



**SKILL DEVELOPMENT PROGRAM ON HANDS ON TRAINING FOR THE EXTRACTION AND CHARACTERIZATION OF PLANT PROTEINS**



**Learn how to extract and characterize plant proteins through NIIST's skill development course!**

**Objective**  
This intensive and carefully curated course offers the participants to update their knowledge on plant proteins, it also hones the skills required for the extraction and characterization of plant proteins through hands on experience in lab and pilot plant.

**Outcome**  
Skilled manpower and improved chances of recruitment in plant protein industries.

**Eligibility**  
Bachelors/Masters in food science, food processing, food engineering, food technology or relevant area.

**Resource persons**

- Dr. Ayyappan Senior Scientist, Plant proteins
- Dr. Prasanth Pillai Asst. Prof. University of Minnesota

**Course content**

- Introduction to food macromolecules with emphasis on plant proteins
- Potential raw materials and preprocessing for protein extraction
- Strategies for the extraction of plant proteins
- Characterization of plant proteins for their physico-chemical properties
- New product development and analysis
- Food regulations related to plant proteins
- Technoeconomic and life cycle assessment of plant proteins

**COURSE COORDINATOR**  
Dr. Vasanth Raghavan  
Senior scientist, AFPTD, CSIR-NIIST

**NO. OF SEATS**  
10

**COURSE FEE**  
Rs. 5000/-

**MODE OF TRAINING**  
In person/offline

**ACCOUNT DETAILS**

The Director, CSIR-NIIST  
Account No: 0704723825  
IFSC Code: SBIN0070030  
Bank: State Bank of India (SBI)  
Address: Pappanamcode, Industrial Estate


**CONTACT DETAILS**

9935633632  
sdp@niist.res.in  
vasanthragavan.niist@csir.res.in  
Apply Online : <http://sdp.niist.res.in>


**2 - 6 MARCH 2026**

**CSIR-NIIST**

**DURATION**  
5 days



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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 early 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 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.

**MODE**  
Offline

**CONTACT**  
PHONE: 0473 2515326  
E-mail: sdp@niist.res.in

**ACCOUNT DETAILS**  
The Director, CSIR-NIIST (Regional Research Laboratory (RRL))  
Account No: 0704723825  
IFSC Code: SBIN0070030  
Bank: State Bank of India (SBI)  
Address: Pappanamcode, Industrial Estate

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

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

**(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**

1. Dr. Sreejith Shankar  
2. Dr. Joshy Joseph

**COURSE MATERIALS AND CERTIFICATE**

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

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

**TOPICS COVERED**

**(A) THEORY**

- Introduction to Spectroscopy
- Basic Theories in Spectroscopy
- Fundamentals of UV-Vis Spectroscopy: The electromagnetic spectrum, Ultra-violet 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
- FT-IR 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

**ELIGIBILITY**  
Bachelors, Masters or PhD Degree in Science or Engineering



सिीएसआईआर-भारतीय समवेत औषध संसथान  
CSIR-Indian Institute Of Integrative Medicine





## गैस क्रोमेटोग्राफी (जीसी) पर कौशल विकास प्रशिक्षण कार्यक्रम SKILL DEVELOPMENT TRAINING PROGRAM ON GAS CHROMATOGRAPHY (GC)

**कार्यक्रम के बारे में/ABOUT THE PROGRAM**

एह 5-दिनेसिय प्रशिक्षण कार्यक्रम गैस क्रोमेटोग्राफी (GC) में बुनियादी वैज्ञानिक ज्ञान तथा प्रायोगिक (हैंड्स-ऑन) प्रशिक्षण प्रदान करेगा। प्रशिक्षण जीसी के सिद्धांत, उपकरणों की संरचना एवं कार्यप्रणाली, गैस कैरीयर, गैस चिपिंग सिस्टम (मेथन ऑक्सीजन) तथा डेटा विश्लेषण के बारे में जीसी के कार्यालय में जीसी के सांख्यिकी संयोजक, सहायक निदेशक (इंटरनल) तथा स्टुडेंट्स एवं रजिस्ट्रार में इनके विभिन्न अनुप्रयोगों को भी शामिल किया गया है।

This 5-day training program provides basic theoretical knowledge and hands-on training in Gas Chromatography (GC). Participants will learn about GC principles, instrumentation, sample preparation, method development, and data analysis. The program also covers practical operation, troubleshooting, and applications of GC in research and industry.

**कौन आवेदन कर सकता है / WHO CAN APPLY**

- बी.टेक, सांख्यिकी, औषधी विज्ञान, कृषि एवं वन्य जीविक विज्ञान में डिग्री प्राप्त करने वाले, पीएचडी एवं पीएचडी छात्र / UG, PG & PhD Students Pursuing Degrees in Biological, Chemical, Pharmaceutical, Agricultural & veterinary sciences.
- विज्ञान छात्रों से जुड़े कर्मचारी, शैक्षणिक, छात्र एवं अन्य क्षेत्रों में आवेदन के योग्य हैं। / Working, Academic, Students & Professionals from the science background are also eligible.





आवेदन पत्र के अतिरिक्त आवेदन पत्र भरने के बाद, आवेदन पत्रों में प्रशिक्षण कार्यक्रम की संरचना की हार्ड कॉपी (REGISTRATION FORM) भी भेजना है। आवेदन पत्रों को भेजने के लिए आवेदन पत्रों को [admission@iiim.ac.in](mailto:admission@iiim.ac.in) पर भेजा जाना चाहिए है। / After completing the online payment of the registration fee, please upload a scanned copy (REGISTRATION FORM) of the payment receipt or transaction ID on the Google Form. The same shall also be sent to our official email ID: [admission@iiim.ac.in](mailto:admission@iiim.ac.in).

**गुनायिका शर्तें / GUIDELINES**

- एक ही इतिहासिक को मेजरता संयोजक द्वारा गुनायिका फॉर्म एवं भोजन प्रदान किया जाएगा / Registration KE and Food for all participants shall be provided by Host institute.
- संयोजक के बारे में 11800/- (₹1000 + 18% जीएसटी) का फीस/चार्ज चुकाने का आदेश दिया गया है। / A Registration Fee of Rs. 11800/- (₹1000 + 18% GST) must be paid in Institute's account and the receipt needs to be uploaded in the online Registration/Google Form.
- प्रकार का कोई भी शुल्क है। अधिकतम 15 सीटें उपलब्ध हैं / Maximum of 15 Seats are available on First Come First serve.

**गुनायिका शर्तें / REGISTRATION FEE**

- ₹1180/- (₹1000 + 18% जीएसटी) का शुल्क चुकाने के बाद, आवेदन पत्रों में प्रशिक्षण कार्यक्रम की संरचना की हार्ड कॉपी (REGISTRATION FORM) भी भेजना है। आवेदन पत्रों को भेजने के लिए आवेदन पत्रों को [admission@iiim.ac.in](mailto:admission@iiim.ac.in) पर भेजा जाना चाहिए है। / After completing the online payment of the registration fee, please upload a scanned copy (REGISTRATION FORM) of the payment receipt or transaction ID on the Google Form. The same shall also be sent to our official email ID: [admission@iiim.ac.in](mailto:admission@iiim.ac.in).

**प्रार्थी गुनायिका करें / REGISTER HERE**

गुनायिका शर्तें/अनुमति पत्रों को भेजने के लिए / Register Here By Using The Google Form Link

<https://forms.gle/pj8t8g8n8h8p8p8v8z8>

या फिर QR स्कैन करें को कौन करें / Or Scan The Given QR Code



**STARTING FROM: 09<sup>TH</sup>-11<sup>TH</sup> March 2026**

पता / VENUE: CSIR-Indian Institute of Integrative Medicine, Canal Road, Jammu 180001

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

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



**LATEST NEWS**

# इधर, नीरी का भी जोर : युवा हाथों में होगी पर्यावरण प्रबंधन की डोर

## • आकलन व क्षमता विकास कार्यक्रम

भास्कर संवाददाता | नागपुर. वर्तमान में औद्योगिक एवं आधारभूत संरचना परियोजनाओं का विस्तार व नये निर्माण हो रहे हैं। ऐसे में पर्यावरण प्रभाव का आकलन करना महत्वपूर्ण हो चुका है। सीएसआईआर-नीरी ने हाल ही में युवाओं के लिए प्रशिक्षण कार्यक्रम आयोजित किया। तीन दिवसीय कार्यक्रम में बड़ी संख्या में युवाओं ने हिस्सा लिया। सीएसआईआर-नीरी के प्रबंधक डॉ. एस वेंकट मोहन ने कहा कि युवाओं के भीतर क्षमता विकसित की जा रही है। भविष्य में युवाओं के हाथों में पर्यावरण प्रबंधन की डोर होगी। डॉ. एस. वेंकट मोहन ने प्रतिभागियों को ईआईए के नवीनतम

मुद्दों, पर्यावरण निगरानी की अनिवार्यता, पर्यावरण प्रबंधन योजना (ईएमपी) की उपयोगिता तथा विकास परियोजनाओं में पर्यावरणीय संतुलन बनाए रखने की आवश्यकता पर मार्गदर्शन दिया।

## अलग-अलग राज्यों के युवाओं का समावेश

प्रशिक्षण कार्यक्रम ने विविध राज्यों के प्रतिभागियों ने भाग लिया। कार्यक्रम में दोराव वरिष्ठ वैज्ञानिक डॉ. जी.के. खडसे, डॉ. शारदा कोसणकर, डॉ. संजीव कुमार सिंह, इंजी. स्तीश लोखंडे, डॉ. एम.पी. पटिल, डॉ. आशा लावणबी व ईकोवॉलस



एनवायरनमेंटल सॉल्यूशंस एलएलपी के निदेशक डॉ. समीर देशपांडे का विविध विषयों पर व्याख्यान हुआ।

## पर्यावरण प्रबंधन के क्षेत्र में युवाओं की क्षमता वृद्धि

नागपुर स्थित सीएसआईआर-नीरी इंटीग्रेटेड स्किल इनिशिएटिव के अंतर्गत पर्यावरण प्रभाव आकलन (ईआईए) विषय पर ग्रीन स्किल प्रशिक्षण कार्यक्रम आयोजित किया गया। कार्यक्रम का उद्देश्य पर्यावरण प्रबंधन और निरंतर विकास के क्षेत्र में युवाओं की क्षमता वृद्धि करना था। इस अवसर पर स्किल डेवलपमेंट सेंटर के प्रभारी एवं कोर्स समन्वयक वैज्ञानिक डॉ. हर्षवर्धन सिंह ने प्रशिक्षण की विषयवस्तु और संस्थान की ग्रीन स्किल पहलों की जानकारी दी। हैदराबाद क्षेत्रीय केंद्र से आए वैज्ञानिक डॉ. टी.वी.बी.पी.एस. रामाकृष्ण ने ईआईए अध्ययनों के व्यावहारिक पहलुओं और जमीनी अनुभवों को प्रतिभागियों के साथ साझा किया।



चौथा राष्ट्रीय पर्यावरण युवा संसद का समापन

## जजबे से जीत... जल, जंगल, जमीन, जानवर जन की रक्षा बेहद जरूरी है

राष्ट्रीय पर्यावरण युवा संसद का समापन कार्यक्रम का समापन कार्यक्रम में भाग ले रहे युवाओं को प्रेरित करने के लिए आयोजित किया गया। कार्यक्रम में युवाओं को पर्यावरण प्रबंधन के महत्व के बारे में बताया गया। कार्यक्रम में युवाओं को पर्यावरण प्रबंधन के महत्व के बारे में बताया गया। कार्यक्रम में युवाओं को पर्यावरण प्रबंधन के महत्व के बारे में बताया गया।

## आधुनिक उपकरणों के उपयोग से सटीक सर्वेक्षण का प्रशिक्षण



सिडर में भगवतार को आयोजित कार्यक्रम में विशेषज्ञों के साथ स्कूली छात्र-छात्राएं।

धनबाद, विशेष संवाददाता। सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान (सीएसआईआर-सिफर) धनबाद ने भगवतार को आधुनिक उपकरणों का उपयोग करके सटीक सर्वेक्षण पर चार दिवसीय कौशल विकास कार्यक्रम (एसडीपी) का उद्घाटन किया। यह कार्यक्रम 20 फरवरी तक चलेगा। राजकीय पॉलीटेक्निक भागा और राजकीय पॉलीटेक्निक धनबाद के खनन और सिविल इंजीनियरिंग विभागों के अंतिम वर्ष के छात्रों के लिए आयोजित किया जा रहा है। उद्घाटन सत्र में सिफर निदेशक प्रो. अरविंद मिश्रा, प्रौद्योगिकी प्रबंधन और आईएसटीएनो के अनुसंधान समूह (एचओआरजी) के प्रमुख अमरनाथ, मानव संसाधन विकास विभाग के प्रमुख रिलीफ कुपुष्कार, माइन सर्विसेस और सर्वेक्षण के अनुसंधान समूह के प्रमुख डॉ. अमर प्रकाश एवं नोडल ऑफिसर, स्किल डेवलपमेंट प्रोग्राम डॉ. जितेंद्र कुमार सिंह मौजूद थे। उद्घाटन सत्र में 25 विद्यार्थियों ने हिस्सा लिया। कार्यक्रम की शुरुआत में डॉ. जितेंद्र कुमार सिंह ने एकेडमिक कॉलेज और इंस्ट्रुटी की जरूरतों के बीच के गैप को कम करने के लिए स्किल-ओरिएंटेड ट्रेनिंग के महत्व पर जोर दिया। डॉ. अमर प्रकाश ने ट्रेनिंग टॉपिक का ओवरव्यू दिया, और माइंड-ईजीनियरिंग प्रैक्टिस के लिए इसकी जरूरत पर जोर दिया। अमरनाथ ने उन सुविधाओं और स्पॉटों के बारे में जानकारी दी। प्रो. अरविंद कुमार मिश्रा ने बताया कि कैसे सटीक सर्वेक्षण न केवल माइन प्लानिंग, माइन डेवलपमेंट और इंफ्रास्ट्रक्चर स्ट्रेटेजिस्ट्री में बल्कि सैटेलाइट और मिसाइल लाईफिंग जैसे एडवेंसड फील्ड्स में भी जरूरी है।



## CSIR-IIIIM concludes 3 day skill dev training on Laboratory Animal Techniques



सीएसआईआर-नीरी ने आयोजित किया गया 3 दिवसीय कौशल विकास कार्यक्रम का समापन।

## NGRI Starts Geothermal Training

DECCAN NEWS SERVICE HYDERABAD CSIR-National Geophysical Research Institute (CSIR-NGRI) has launched a specialized training programme titled "Geosciences for Geothermal Energy Exploration (G2E2)" from February 23 to 28, 2026, under the CSIR-Integrated Skill Initiative. The programme was inaugurated by Dr Prakash Kumar, Director of CSIR-NGRI, who described it as a proud moment for the institute to organize its first exclusive training focused on geothermal energy exploration. He emphasized that geothermal energy holds strong promise as a reliable base-load renewable resource and will play a crucial role in India's transition towards sustainable and low-carbon energy systems. He noted that the initiative aligns with the national vision of Atmanirbhar Bharat and Skill India by building industry-ready technical capabilities. Dr P. B. Sarolkar, Former Deputy Director General of the Geological Survey of India, highlighted India's significant geothermal potential and stressed the importance of integrated and scientific exploration strategies to harness this resource effectively. The programme provides interdisciplinary training covering heat-flow studies, hydro-geochemistry and advanced geophysical techniques. It aims to equip participants with practical skills for geothermal resource assessment and exploration. Participants from various institutions across the country are attending the week-long programme, which is expected to strengthen technical expertise and promote research and development in geothermal energy in India.



(Please click on the link to view the details)

**NATIONAL**

- ▶ [MSDE conducts meeting to review skilling in Rajasthan](#)
- ▶ [RFP: Private training providers invited to operate ITI Chandrapura](#)
- ▶ [RFP: Firms invited to be PMU for PM SETU implementation in Goa](#)
- ▶ [India AI Impact Summit 2026: Skilling and Employment on focus](#)
- ▶ [Kyndryl expands AI skilling programs for government employees, students and youth in India](#)
- ▶ [MoU Signed Between Vadhvan Port Project Ltd. and DVET, Maharashtra to Expand Skill Development in Vadhvan Region](#)
- ▶ [Skill development is backbone of India's maritime growth story: Sonowal](#)
- ▶ [Bengaluru among world's top AI hubs, ranks fifth globally in AI skilling: Priyank Kharge](#)
- ▶ [UP to become "skill hub"; youth to get direct employment through Kaushal Connect Cell](#)
- ▶ [Jayant Chaudhary on AI & Education: Building India's Workforce of Tomorrow](#)

- ▶ [Bihar Skill Development Mission Signs MoU with National Skill Development Corporation to Boost Jobs and Entrepreneurship](#)
- ▶ [India boosts AI upskilling: Bhartiya Vidya Bhavan launches grassroots AI course](#)
- ▶ [UP Budget 2026-27: Vocational education funds up 88%; 14 new medical colleges; school outlay highest](#)
- ▶ [Prime Minister's meeting with the President of the Swiss Confederation, H.E. Mr. Guy Parmelin on the sidelines of AI Impact Summit 2026](#)
- ▶ [India-France to set up National Centre of Excellence \(NCoE\) in Kanpur](#)
- ▶ [Xiaomi India Launches 'Xiaomi Edge' to Skill 30,000 Youth in AI and Cybersecurity in Uttar Pradesh](#)
- ▶ [India AI Impact Summit 2026: Microsoft plans to skill 20 million Indians with AI by 2030, says Amanda Craig](#)
- ▶ [Shri Jayant Chaudhary, launched the nationwide campaign "Badhna Hai Toh Yahan Judna Hai" to supercharge India's digital skilling movement.](#)

- ▶ [Varanasi News: दूसरे दिन सिलाई, व्यावसायिक शिक्षा, कंप्यूटर और नगारिक शास्त्र की परीक्षा](#)
- ▶ [प्रदेश के 75 जिलों में कौशल विकास केंद्रों को लेकर बड़ा फैसला लिया गया है](#)
- ▶ [उत्तर प्रदेश के व्यावसायिक शिक्षा एवं कौशल विकास राज्य मंत्री \(स्वतंत्र प्रभार\) श्री कपिल देव अग्रवाल जी ने UPSDM मुख्यालय में "कौशल कॉल सेंटर" का शुभारंभ किया](#)
- ▶ [UP Budget 2026: 25 लाख युवाओं के लिए टेक्नोलॉजी ट्रेनिंग का बड़ा प्लान | AI mission UP](#)
- ▶ [बिहार के लिए बड़ी सौगात! 10,000 नई नौकरियां और ₹468 करोड़ का निवेश, जानें पूरा प्लान?](#)
- ▶ [CM योगी की अहम बैठकें Skill Development और Investment पर की बड़ी बातचीत](#)
- ▶ [कौशल विकास के लिए सरकार ने खोला खजाना, बच्चे सीखेंगे कंटेंट बनाना](#)
- ▶ [भारत को सिर्फ AI का उपभोक्ता नहीं, बल्कि भविष्य के AI को आकार देने वाले के रूप में तैयार करना](#)
- ▶ [त्रिपुरा ने पीएमकेवीवाई 4.0 के तहत आईआईटी दिल्ली के नेतृत्व में उन्नत आईटी कौशल कार्यक्रम शुरू किए।](#)

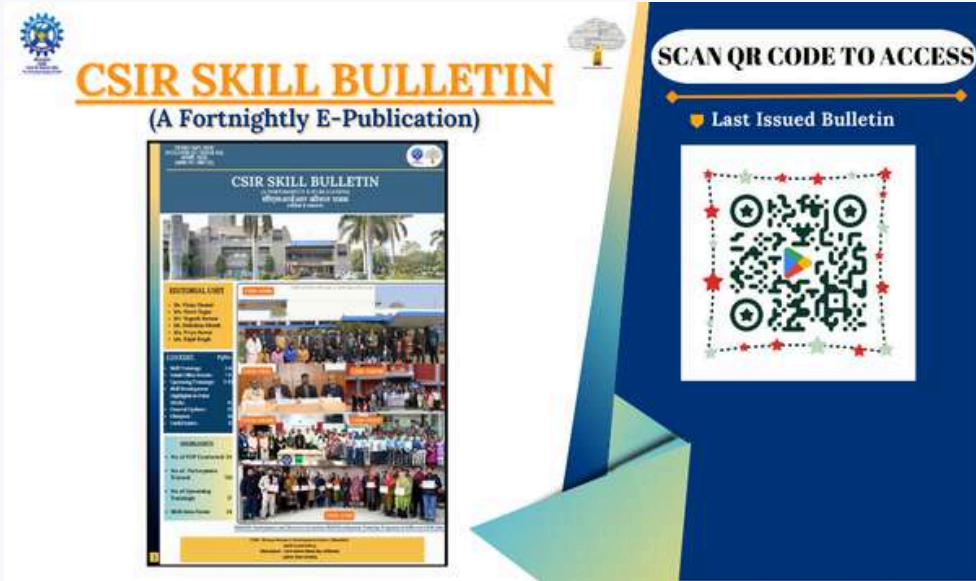
**INTERNATIONAL**

- ▶ [Expanding access to learning through digital innovation: UNESCO's LearnBig initiative](#)
- ▶ [Australia: Victoria's AI Strategy Fuels Growth and Innovation](#)
- ▶ [Global Influence of the Indian IT Sector Discussed During First Ever Event Organized by ITServe Alliance at the Indian Consulate in New York](#)
- ▶ [SAP pledges to equip 12 million people worldwide with AI-ready skills by 2030](#)
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