

CSIR SKILL BULLETIN

(A FORTNIGHTLY E-PUBLICATION)

सीएसआईआर कौशल पत्रक

(पाक्षिक ई-प्रकाशन)



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HIGHLIGHTS

- | | |
|--------------------------------|-----|
| • No. of SDP Conducted: | 15 |
| • No. of Participants Trained: | 474 |
| • No. of Upcoming Trainings: | 13 |
| • Skill Area Focus: | 15 |

CSIR-IICT



CSIR-NGRI

CSIR-IMTECH



CSIR-NPL



CSIR-IITR

IMAGES: Skill Development Training Programs at different CSIR Labs

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

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



CSIR-CGCRI, Kolkata has organized a skill development training programme on **“Ceramic Membrane Technology and Water Analysis using Advanced Instrumental Techniques”** during the period **11th - 13th August, 2026** as a part of the CSIR Integrated Skill Initiative Programme. Various important characterization techniques for materials and quality parameters of drinking water and wastewater have been demonstrated. Ceramic membrane preparation, uses of the membrane technology for water treatment and plant operation has also been demonstrated. **16** engineering students from Calcutta Institute of Technology, Uluberia, Howrah, W.B. have successfully completed the three-days training programme. They found it very much informative as well as of practical importance and appreciated this training module.



CSIR-CLRI, Chennai conducted a two-day skilling and Training Programme on **“Environmental Pollution Control Measures and Strategies related leather sector”** sponsored by TNPCB, during the period **31st August - 1st September, 2026** for **46** newly recruited Engineers/Scientists/Librarians. The two-day programme had a host of internal and external experts interacting with the new recruits. Various topics were covered such as Environmental Law, Wastewater treatment, Environmental audits/ISO & Green Business certifications, Climate change & Mitigation, Leather Sector – A case study and Sustainable Development Goals & Waste Management sector.

CSIR-IITR, Lucknow conducted two-day workshop on **“Hands-on Training on HPLC Instrumentation, Operation, Method Development, and Data Analysis”** during the period **02nd -03rd September, 2026**, under the Skill Development Program. The course coordinator of the workshop was Dr. Akhilesh K. Yadav, Scientist D and Dr. Sumana Y. Kotian, Technical Officer. Participants from different Universities attended the workshop, representing a range from Graduate students to PhD Scholars, and Faculty Members. A total of **19** participants attended the workshop. The inaugural session was addressed by Dr Pradeep K. Sharma, Co-Nodal Scientist, Skill Development Program and Dr. D.K. Patel, Scientist G. The workshop covered laboratory safety, fundamentals and applications of HPLC-PDA, standards and sample preparation. Participants received hands-on training in HPLC instrumentation and analysis of prepared samples. The sessions also focused on data analysis and interpretation.



CSIR-IICT, Hyderabad successfully conducted a Skill Development Programme on **“Phytochemical Techniques”** from **04th - 08th August, 2026** which was attended by **47** participants across India. The five-day programme featured expert lectures, hands-on training, laboratory demonstrations, interactive sessions with scientists. The programme was conducted by Department of Natural Products & Medicinal Chemistry.

CSIR-IMTECH, Chandigarh organised a five-day National workshop on **“Ethical Contemplation of Animal Resources for Experimentation (WeCARE-2026)”** from 7th - 11th September, 2026, under the CSIR Integrated Skill Initiative. The workshop focused on specialized training in animal handling, biosafety, and Good Laboratory Practices (GLP) to strengthen expertise in biomedical research. It brought together more than **60** researchers and professionals from leading academic and research institutions across India to deliberate on the ethical use of laboratory animals and their contribution to advances in biotechnology and pharmaceutical research, particularly vaccine development and drug discovery. The technical programme features distinguished experts from leading institutions, including IIT Ropar, NIPER, IISER, INST, BRIC-NABI Mohali, Panjab University Chandigarh, NBRC, Manesar, LUVAS, Hisar, GADVASU, Ludhiana and CSIR-IMTECH. The workshop combined expert lectures with intensive hands-on training, followed by competency-based practical assessment and a comprehensive theory examination. The inaugural session also featured the release of the workshop manual by the dignitaries and the felicitation of the Chief Guest by Director, IMTECH.



CSIR-IIP, Dehradun, successfully conducted a three -day Skill Development Training Program on **“Biodiesel”** from 1st - 3rd September, 2026, under the aegis of the CSIR-IIP Integrated Skill Initiative. The comprehensive program was attended by **12** participants and featured extensive hands-on practical sessions covering critical petroleum test methods. These included Production Operations & Downstream Processing, Plant Operations, Technical training on biodiesel, preparation methodologies, pilot plant operations, Hands-on training covering the essential work-up processes, the determination of crucial physico-chemical properties at the ACRC facility, Global & National Landscape, Quality Standards & Characterization, Feedstocks & Process Economics, alongside data analysis and the accurate reporting of test results. In addition to the practical laboratory exercises, the participants attended theoretical sessions focused on Naphtha and Aviation Turbine Fuel (ATF) specifications, current challenges in testing methodologies, and future trends shaping the hydrocarbon sector. Live demonstrations of manual distillation procedures were also a key highlight of the technical curriculum.

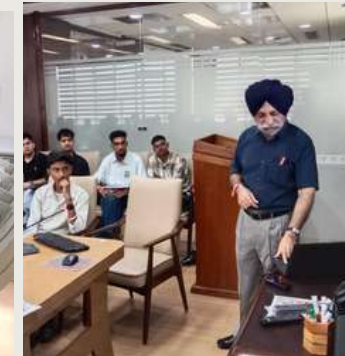
CSIR-NGRI, Hyderabad organised a training program on **“Magnetotelluric Exploration for Earth Resources”** from 07th -11th September, 2026 under the CSIR Integrated Skill Initiative. The program started with a brief introduction about the training program by Dr. B. P. K. Patro, Program coordinator, followed by an address on the CSIR-Integrated Skill Initiative training programs by Dr. Abhey Ram Bansal, Nodal Officer. The program was formally inaugurated by Dr. Prakash Kumar, Director, CSIR-NGRI, and Dr. Abdul Azeez K. K, Program Co-coordinator, who introduced the participants. A total of **10** participants (6 female and 04 male) attended the course, including Master's students from Farook College, Kerala and Kuruktrshra University Haryana. The training program was designed for working professionals, research scholars, and master's students to gain in-depth knowledge of Magnetotelluric techniques and their applications in resource exploration. The participants received hands-on training in MT data acquisition, processing, and modeling using state-of-the-art software and equipment.





CSIR-CFTRI, Mysuru conducted a five-day Skill Development Training Programme on **"Post-Harvest Technology, Processing, Value Addition and Canning of Fruits and Vegetables"** from **31st August - 04th September 2026** which was attended by 27 participants. The training programme provided participants with comprehensive practical exposure to various aspects of storage & shelf life extension of fruits and vegetables, processing equipments, dehydration of fruits & vegetables, preparation of jam, jelly, marmalade, tomato products, fruit juice beverages (Squash & RTS) & tutti-frutti. Freezing & Canning Technology, Packaging, Sensory, Safety and Quality parameters. The programme was organized by the Short Term Course Division, CSIR-CFTRI, under the CSIR Integrated Skill Initiative.

CSIR-CLRI, Chennai is successfully conducting a training programme on **"Short-Term Executive Skill Development Programme in Leather Goods Manufacture"** from **1st - 30th September, 2026**. As part of the commencement, an orientation session was organized for the new 7 admittees during which the respective heads, coordinators and technical experts interacted with the executives, providing an overview of the program, training modules, and practical learning activities. This batch is truly pan-Indian since the executives and professionals from across India are participating in the programme to gain knowledge and enhance their skills in leather goods and accessories design, manufacturing, and product development. The programme will provide valuable exposure to practical techniques, industry practices, new trends, and opportunities in the leather goods sector. The programme is also aimed at strengthening industry-oriented competencies among the participating professionals through hands-on learning and expert guidance. It will further encourage the adoption of innovative techniques and contemporary approaches in leather goods manufacturing.



CSIR-CSIO, Chandigarh, organized a three-day workshop on **"Industry 4.0"** during the period **01st - 03rd September, 2026** at ISTC, CSIR-CSIO, Chandigarh. The workshop was attended by 66 participants from different institutions and organizations, providing a common platform for learning, interaction and knowledge exchange on emerging Industry 4.0 technologies. The workshop covered both theoretical and practical aspects of Industry 4.0, including the Importance and Overview of Industry 4.0, Industrial Automation, Industrial Robotics, Energy Data Driven Approach, Autonomous Navigation and Drones, Industry 4.0 applications in Agriculture/Water Testing, IoT applications, and hands-on practical sessions. The sessions were delivered by experts from NITTTR, Chandigarh and CSIR-CSIO, along with technical experts from ISTC. The practical sessions provided participants with exposure to Industrial Automation, Industrial Robotics and IoT, enabling them to understand the practical implementation of Industry 4.0 concepts in laboratory and industrial applications.

CSIR-CECRI, Karaikudi, organized a one-week Skill Development Training Programme on **“Electrochemical Power Sources: Lithium-ion Battery: Science and Technology”** during **07th - 11th September, 2026**, under the aegis of CSIR Integrated Skill Initiative (Phase III). In this skill development course, the following topics were covered: Course Overview and Introduction to Electrochemical Power Sources, Cathode Materials for Lithium-Ion Batteries, Anode Materials for Lithium-Ion Batteries, Electroanalytical Characterisation of Lithium-ion Battery Materials, Battery Testing and Safety, Cell Fabrication, Safe Handling, Storage and Disposal Practices, Electrolytes and Separator Materials for Lithium Ion & Sulfur Batteries, Battery Management System, Pack making, Inspection and Quality Control on Lithium-Ion Battery Production, Batteries for EVs, Modeling and Simulation of Lithium-ion Batteries, Solid-State Batteries, Lithium-Air battery, Redox Flow Batteries; Practical Sessions: Visit to Central Instrumentation Facility for demonstration on characterization of battery materials, Coin cell making, Pack making. A total of **67** participants from different parts of the Tamil Nadu and neighbouring States of Kerala, Karnataka and Telengana attended this Training.



CSIR-CLRI, Chennai, conducted a two-week Training Programme on **“Total Quality Management for Footwear Production”** from **31st August - 11th September, 2026** under the CSIR Integrated Skill Initiative at Nayudamma Hall. A total of **16** trainees participated in the programme, which was organised under the CSIR Integrated Skill Initiative. The programme focused on strengthening industry-oriented competencies in footwear manufacturing, TQM principles, quality planning and process control, defect analysis, corrective actions, standardisation, documentation, and quality assurance. The programme featured practical demonstrations, hands-on sessions, case studies and interactive learning, aimed at enhancing quality consciousness and improving production efficiency in the footwear sector.

CSIR-CGCRI, Kolkata conducted a two-day Skill Development Programme on **“Terracotta Processing”** at Duttapukur, North 24 Parganas, West Bengal during the period **10th - 11th September, 2026** as a part of the CSIR Integrated Skill Initiative Programme. In this programme, different aspects of terracotta processing such as raw material processing, plaster of Paris (POP) mould making, shaping of terracotta articles by slip casting were elaborately discussed and demonstrated. The process of glaze preparation, application of glaze on terracotta articles and firing of the articles was also demonstrated. Hand-on training was provided on terracotta jewellery making using plaster of Paris mould. **39** artisans and housewives actively participated in this skill development programme. The programme provided the participants with practical exposure to traditional terracotta techniques and value-added product development. The hands-on sessions helped the participants enhance their technical skills and explore opportunities for developing innovative terracotta products. The training is expected to support livelihood generation and promote entrepreneurship among local artisans.



CSIR-NPL, New Delhi successfully organized a three-day training programme on **“Air Quality Measurements”** during the period **9th - 11th September, 2026** under the CSIR-Integrated Skill Initiative. The programme was attended by more than **30** participants, primarily from various laboratories and organisations across Kerala, Chennai, Karnataka, Maharashtra, Punjab, Haryana, Delhi and Uttar Pradesh. The programme provided participants with comprehensive knowledge of air quality monitoring and measurement techniques. It covered various aspects of air quality assessment, including measurement methodologies, monitoring practices and data interpretation. Participants gained practical exposure to instruments and techniques used for accurate measurement of air pollutants. The training also focused on the importance of reliable and standardized measurements for effective air quality management. Interactive sessions and practical demonstrations enabled the participants to strengthen their technical understanding and skills. The programme facilitated knowledge sharing among professionals from different regions and organizations. It further contributed to enhancing the technical capabilities of participants in the field of environmental monitoring. Overall, the programme supported the objective of the CSIR-Integrated Skill Initiative by promoting industry-relevant skills and technical capacity building in air quality assessment. The programme also encouraged participants to adopt best practices in air quality monitoring and measurement. It served as a platform for exchanging technical knowledge and experiences related to environmental monitoring.



CSIR-NCL, Pune successfully conducted a two-week Skill Development Program on **“Advanced Chromatographic Techniques”** from **31st August - 11th September, 2026** under the CSIR-Skill Development initiative. A total of **12** post-graduate and research students from diverse scientific backgrounds participated in this intensive, hands-on training program. This program was designed to build technical competency and enhance analytical skills in modern chromatographic methods widely used in research, academia, and industry. The training included both theoretical sessions and a practical session on:

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

Participants were trained to identify, separate, and purify complex mixtures, and to carry out qualitative and quantitative analysis using state-of-the-art instrumentation. Emphasis was also placed on instrument calibration, method development, data interpretation, and troubleshooting techniques, ensuring that trainees gain industry-relevant competencies. The program was ably coordinated by Dr. Sanjay Borikar, Dr. Snehal More, and Dr. Nilakshi Sadavarte, with strong support from their technical and administrative teams. Their collective efforts ensured a smooth and effective delivery of the course content.







**Skill Development Program
On
"Genetic & Microbial Monitoring of Animals" (GMMMA-IV)
05th - 13th October 2026**





The CSIR-Centre for Cellular and Molecular Biology is organizing a hands-on training on "Genetic & Microbial Monitoring of Laboratory Animals" (GMMMA-IV) targeted to faculty members/researchers from universities/institutes/industries and interested individuals in the field of Life Sciences, Medical Sciences, Pharmaceutical Science & allied areas. It is intended to train people in monitoring and maintaining lab animals used for various experiments. The training would involve hands-on experiments and lectures on tissue collection, DNA isolation, genotyping, biochemical analyzers, microbial contamination detection and prevention.

No. of seats	: 10-15
Minimum Qualification	: Bachelors/Masters in any branch of Life Science/Allied areas
Mode of the Course	: In-house training at CCMB, Hyderabad
Mode of selection	: Application form & Statement of Purpose
Course Fee	: Rs.18,000/- (including accommodation & GST)
Apply using the link	: http://recruitment.ccmb.res.in/training_programs/sdp/

Training Curriculum: (lectures and hands-on sessions)

- Quality control, both genetic & microbial to maintain genetically homozygous & germ free animals
- Immunogenetic, biochemical and PCR based testing methods
- Dosage screening of lab animals, sample collection & processing techniques for molecular & microbiological monitoring
- Things to sort out during standardization & Exposure to laboratory safety regulations

Hands-on:

- Genomic DNA isolation from tail samples and genotyping by standard PCR with gene specific and SSLP markers
- Biochemical markers (HbA, ALP, Albumin, SGPT, etc.) to assess the genotype or genetic contamination
- Tissue collection, DNA & RNA isolation, Complementary DNA synthesis for DNA & RNA viruses
- Identification of infective agents by PCR, RT-PCR and Real time PCR (qPCR)
- Preparation and observation of agar plates for microbial cultures from different platforms
- Microbial identification by different staining procedure, biochemical test and ABST
- DNA isolation from individual bacterial colonies and identification of bacteria by PCR
- Hematology by hematology analyzer and immunological testing of pathogen by ELISA
- Fecal examination for endo-parasites and skin scraping for ecto-parasites

Topics:

- Primer sequence selection, primer design and synthesis
- Basic PCR programming, uses of real time(qPCR) and reverse transcriptase (RT PCR) types
- Buffers and Master mix preparation for DNA, RNA isolations and PCR
- Skin and hair scraping to identify the presence of ecto-parasites
- Basic histo-pathological techniques involved in health monitoring program

Salient Features of the Training:

- Expert instructors will provide lectures and hands on training
- One-to-one interaction with the trainers
- Evaluation assignments and Trouble-shooting sessions
- Certificate of participation will be issued to the participants

Course Coordinator:
Dr. Jerald Mahesh Kumar
Scientist-G & In-charge
Animal House, CSIR-CMIB,
Hyderabad.

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

Scan to Apply







**Skill Development Program
On
"Advanced Biophysical Tools for Protein-DNA/Bimolecular Interactions"
16th - 20th November 2026**

The CSIR-Centre for Cellular and Molecular Biology is conducting a hands-on training on "Advanced Biophysical Tools for Protein-DNA/Bimolecular Interactions" (BIOPHY-III) 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 caters to individuals with varying levels of expertise, offering education and training in a range of biophysical techniques within the domain of DNA/Protein Biophysics and demonstrating their applications in research projects. The program includes informative lectures, practical hands-on sessions, guidance on instrument setup, and in-depth instructions on data collection and analysis.

No. of seats	: 10-12
Minimum Qualification	: Masters in any branch of life Science/Allied areas
Dates	: 16 th - 20 th November 2026
Mode of the Course	: In-house training at CCMB
Mode of selection	: Application form & Statement of Purpose
Course Fee	: Rs. 18,000/- (includes GST & Accommodation)
Apply using the link	: http://recruitment.ccmb.res.in/training_programs/sdp/

Training Curriculum:
Curriculum includes lectures and hands-on sessions on:

- Basics of Biophysics
- Instrument set-up for various biophysical techniques such as ITC, MST, BLI, Fluorescence Spectroscopy, CD Spectroscopy, DLS along with Protein Modeling
- Sample preparation along with tips and tricks
- Data collection and hands on for all participants
- Data analyses and presentation

Salient Features of the Training:

- Expert instructors will provide lectures and hands on 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

Course Coordinator:
Dr. Shiv Pratap Singh Yadav
Scientist - C, Biophysics
CSIR-CMIB, Hyderabad

Program Coordinator:
Dr. Archana Bhargadwaj Siva
Scientist - G
Nodal Scientist - Skill Development Program
CSIR-CMIB, Hyderabad
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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: 04th October, 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

Course Duration: 390 Hours (70 Days Approx.)

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

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CSIR-Central Electrochemical Research Institute
Karaikudi-630003, Tamilnadu

PRINTMED 2026

NATIONAL WORKSHOP ON
Advanced 3D Printing:
from Biomaterials to Patient-specific solutions

17 & 18 September 2026

FOCUS AREAS

- ✓ Biomedical Materials
- ✓ AM Technologies
- ✓ Medical Design & CAD
- ✓ Polymer & Metal 3D Printing
- ✓ Surface Engineering & Characterization
- ✓ Biological & Clinical Evaluation
- ✓ Clinical Translation & Industrial Applications

REGISTRATION FEE

Students	₹ 500
Faculty	₹ 1000
Others	₹ 3000

Limited Accommodation (shared) available on payment basis

WHO SHOULD ATTEND?

- UG / PG Students
- PhD Scholars / Researchers
- Faculty Members
- Biomedical/Materials Engineers
- Industry Professionals

CERTIFICATE WILL BE PROVIDED

FURTHER INQUIRIES

Dr. D. Jones Davidson
Scientist-G & Head
Skill Development Group (SDG)
CSIR-CECRI, Karaikudi - 630003
Phone: +91 9489500237 / 7598449117
Fax: 04565 - 241521 / 470
Email: skd@csir.res.in

Dr. Deepak K. Pattanayak
Scientist-F & Head
Electrochemical Process Engineering (EPE)
CSIR-CECRI, Karaikudi - 630003

Few Spots Left! Hurry! Claim Yours!



सीएसआईआर-नीरी, नेहरु मार्ग, नागपुर-४४००२० / CSIR-NEERI, Nehru Marg, Nagpur-440020
(विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार / Ministry of Science & Technology, Govt. of India)
हरित कौशल प्रशिक्षण कार्यक्रम / GREEN SKILL TRAINING PROGRAM
विषय / Topic: "ईआईए परियोजनाओं के लिए पारिस्थितिकी और जैव विविधता अध्ययन" /
"Ecology and Biodiversity Studies for EIA Projects"
दिसंबर ०१-०२, २०२६ / December 01-02, 2026



पाठ्यक्रम विषय-सूची / COURSE CONTENTS

- पर्यावरण प्रभाव आकलन (ईआईए) का परिचय; प्रक्रिया, कार्यप्रणाली और नियामक रूपरेखा / Introduction to Environmental Impact Assessment (EIA): Process, Procedures and Regulatory Framework
- पर्यावरण प्रभाव आकलन अध्ययनों में पारिस्थितिकी और जैव विविधता घटक / Ecology and Biodiversity Components in Environmental Impact Assessment Studies
- पर्यावरण विनियम, अनुपालन निगरानी और पारिस्थितिक विषय विज्ञान मूल्यांकन / Environmental Regulations, Compliance Monitoring and Ecotoxicological Assessment
- पौधों की विविधता और पर्यावरण स्थिरता एवं संरक्षण में इसकी भूमिका / Plant Diversity and its Role in Environmental Sustainability and Conservation
- जलीय जैव विविधता मूल्यांकन / Aquatic Biodiversity Assessment
- कीट जीव-जंतु और पर्यावरण निगरानी के लिए पारिस्थितिक संकेतक / Insect Fauna and Ecological Indicators for Environmental Monitoring
- हरित क्षेत्र विकास पारिस्थितिक बहाली योजना / Greenbelt Development and Ecological Restoration Planning
- जैव विविधता संरक्षण कानून और पर्यावरण कानून / Biodiversity Conservation Laws and Environmental Legislation
- पारिस्थितिकी और जैव विविधता सर्वेक्षण के लिए क्षेत्र तकनीकें / Field Techniques for Ecology and Biodiversity Surveys
- ईआईए केस स्टडी और व्यावहारिक क्षेत्र-आधारित पारिस्थितिक मूल्यांकन / EIA Case Studies and Practical Field-Based Ecological Assessment



आवेदक पात्रता / Applicant Eligibility

- भारतीय नागरिक (छात्र, बेरोजगार युवा, औद्योगिक कर्मों और कामकाजी पेशेवर, आदि) / Indian national (student, unemployed youth, industry personnel and working professionals, etc.)
- शैक्षणिक योग्यता: स्नातक (विज्ञान/ इंजीनियरिंग) / Educational qualification: Graduate (Science / Engineering)

पंजीकरण प्रक्रिया / REGISTRATION PROCESS

- कृपया पंजीकरण वेबलिनक के माध्यम से पंजीकरण करें / Kindly register through registration weblink
- पंजीकरण शुल्क: ₹. २३६०/- / Registration fees: Rs. 2360/- (Including GST)
- Payment Details: The Director, CSIR-NEERI, Nagpur, Account Number: 30266513766 Branch: NEERI SBI Branch, Nagpur (Maharashtra), IFSC, Code: SBN0004224
- पंजीकरण की अंतिम तिथि नवंबर ०१, २०२६ / Last date of registration November 01, 2026
- सीट सीमित है और 'पहले आओ-पहले पाओ' के आधार पर पंजीकरण किया जाएगा/ Seats are limited and registration will be done on first come first get basis.
- सीट भर जाने पर पंजीकरण वेबलिनक समय से पहले बंद कर दिया जाएगा / The registration link will be closed earlier once the seats are filled
- हेल्पलाइन नंबर / Helpline Number: 9860248073 / 9370753986

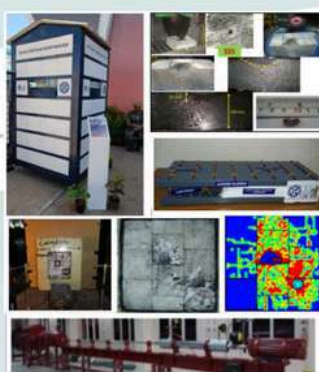
पंजीकरण वेबलिनक / REGISTRATION WEBLINK : <https://forms.gle/EUMEvttwCwsNqiRBA>

निदेशक/DIRECTOR	हरित कौशल समन्वयक / GREEN SKILLS COORDINATOR	पाठ्यक्रम समन्वयक / COURSE COORDINATOR
डॉ. एस. वेंकट मोहन Dr. S. Venkata Mohan निदेशक, सीएसआईआर-नीरी Director, CSIR-NEERI	डॉ. हर्षवर्धन सिंह Dr. Harshvardhan Singh वैज्ञानिक जी एवं प्रवर्तक, कौशल विकास केंद्र (एसडीसी) Scientist G & In-Charge, Skill Development Centre (SDC) EMAIL ID : greenskills.neeri@csir.res.in	डॉ. शारदा कोसनकर Dr. Sharda Kosankar वैज्ञानिक-ई, ईआईएएपी Scientist-E, EIAAP

**A Short Term
Advanced Course on**

Fortified Futures: Next-Gen Hardened Protective Structures

September 21-25, 2026



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





About the Organization

CSIR-Structural Engineering Research Centre, Chennai, is one of the national laboratories under the Council of Scientific & Industrial Research (CSIR), India. CSIR-SERC has built-up excellent facilities and expertise for the 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, this Centre has recognition nationally and internationally as a leading research institution in the field of structural engineering.

Background

Protective structures face unprecedented challenges in today's world, where extreme loadings such as impact, blast, explosions, and vehicle crashes continue to evolve with advances in technology and research. These events, though rare, often prove catastrophic—causing severe injuries, fatalities, economic losses, and social disruption. Designing resilient structures capable of withstanding multiple or coupled extreme events is therefore one of the most demanding tasks for practicing structural engineers. Traditional simplified approaches, including single-degree-of-freedom models and closed-form solutions, have long been used to predict structural responses under such conditions. However, modern advancements in computational and experimental mechanics now enable more reliable analysis and design. Techniques such as Smoothed Particle Hydrodynamics (SPH) and Peridynamics (PD) allow engineers to simulate complex responses under blast and impact loadings, while laboratory and field testing validate these models and provide deeper insights into real structural behavior. The use of innovative materials and bio-inspired designs has further opened pathways to lightweight, shock-resistant, and structurally optimized protective systems. Coupled with advanced experimental facilities and instrumentation, these developments are reshaping our understanding of how materials and structures perform under extreme shock environments. In this context, CSIR-SERC is organizing a five-day advanced offline course on "Fortified Futures: Next-Gen Hardened Protective Structures." The program will equip participants with cutting-edge knowledge of computational and experimental techniques, innovative materials, and resilient design strategies to address the pressing challenges of modern protective engineering.

Objectives

The advanced course "Fortified Futures: Next-Gen Hardened Protective Structures" is designed to address the complex challenges in analyzing and designing protective systems against extreme loadings such as impact, blast, explosions, and crashes. It aims to provide students, consultants, practicing engineers, and professionals from both public and private sectors with a comprehensive overview of current trends and recent advancements in protective structural engineering. Participants will gain exposure to cutting-edge computational and experimental techniques, innovative material applications, and resilient design strategies, with emphasis on both numerical modelling and experimental validation. Through expert lectures, case studies, and demonstrations, the program will equip attendees with the knowledge and practical tools needed to critically evaluate protective structures and develop robust solutions that safeguard lives, assets, and infrastructure against modern extreme events.

Course Contents

- Introduction to protective structures
- Analysis of Protective structures under various loading conditions (Blast / Impact / Crash)

- Design philosophy & current practices for determination of impact, shock and blast loads
- Behavior of concrete/composite structures under high strain rate loadings
- Shock wave propagation in materials under impact/blast loading
- Numerical simulation of explosion and impact loading
- Innovative and bio-inspired materials for advanced protective structures with enhanced shock resistance
- Strengthening and mitigation measures for infrastructure protection
- Case studies on protective structures
- Demonstration on instrumented impact machine and high velocity impact tests with gas gun facility at CSIR-SERC.

Faculty

Faculty for the course would comprise mainly scientists from CSIR-SERC and experts from reputed research/academic institutions /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: 10.00 a.m. to 5.00 p.m.

Registration and Fee

Registration fee is Rs. 5000/- per participant inclusive of GST for Indian delegates and US\$750/- for foreign delegates. Course material in pdf format and certificate of participation will be provided to all the registered participants. The above registration fee includes a kit, lunch and refreshments for five days. 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.

Course coordinators

Dr. Amar Prakash, Scientist-G
Shri V. Ramesh Kumar, Scientist-E
Advanced Protective Structures & Mechanics Laboratory

Contact

Tel.: +91-44-2254-9179/ 2254-9241
Fax: +91-44-2254-1508
E-mails: amar.serc@csir.res.in; rameshkumar.serc@csir.res.in
Website: <https://serc.res.in>



Scan QR Code
for the Course
Promo Video

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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 - 176061 (Himachal Pradesh) INDIA

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

Course Code: AGR/Q0903, NSQF Level-2

An Herb Grower is responsible for growing medicinal and aromatic plants. In the process, the individual selects a suitable site for cultivation; prepares the site; carries out cultivation and harvests the plants on their maturity. The person also performs post- harvest processing of Herbs including cleaning, packing and labelling.

Course Start Date: 21st October, 2026

Course Includes:

- Prepare for cultivation of MAPs
- Carryout cultivation of MAPs
- Carryout harvesting, post-harvest processing and marketing of MAPs
- Maintain health and safety in the workplace

Course-coordinator
Dr. Ramesh

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: 10.10.2026
Course fee: Rs. 800/-
No. of Seats: 20
Education Qualification: No formal education.

Course Duration: 210 Hours
30 Days Approx.

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Website: www.ihbt.res.in

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CSIR- Integrated Skill Initiative (Phase-III)
Applications are invited for the Course of
Medicinal and Aromatic Plants Grower

Course Code: AGR/Q0901, NSQF Level-4

A Medicinal and Aromatic Plants (MAPs) Grower is responsible for growing medicinal and aromatic plants. In the process, the individual selects a suitable site for cultivation; prepares the site; carries out cultivation and harvests the plants on their maturity. The person also performs post- harvest processing of MAPs including cleaning, packing and labelling.

Course Start Date: 12th October, 2026

Course Includes:

- Prepare for the cultivation of MAPs
- Carry out cultivation of MAPs
- Carry out harvesting, post-harvest processing and marketing of MAPs
- Undertake basic entrepreneurial activities for small Enterprise
- Engage in collective farming activity
- Maintain health and safety at the workplace

Course-coordinator
Dr. Rakesh Kumar

Nodal Skill Development Programme
Dr. Gireesh Nadda

Course Duration: 390 Hours
50 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

Last date of receiving application: 01.10.2026
Course fee: Rs. 1000/-
No. of Seats: 10
Education Qualification:

Criteria 1	Criteria 2	Experience	Training Qualification
12th	Passed	No Experience	Equivalent
10th	Passed	3 years	None
Previous NSQF qualification of Level 3.5	1.5 Years	None	
Previous NSQF qualification of Level 3	3 years	None	

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CSIR Integrated Skill Initiative Program
SAIF Sophisticated Analytical Instrument Facility
Supported by Department of Science & Technology (Govt. of India)

CSIR-Central Drug Research Institute, Lucknow

CERTIFICATE COURSE ON
ADVANCED SPECTROSCOPIC TECHNIQUES
(UV/IR, HPLC, LC-MS & NMR)

04th November 2026 to 04th December, 2026

Master advanced spectroscopic techniques and gain hands-on experience with state-of-the-art instruments essential for modern research and drug discovery.

SALIENT FEATURES OF THE TRAINING

- Small batch size for effective training
- Exposure to diverse sample preparation techniques
- Demonstrations of working of state-of-the-art equipment
- Interactive sessions
- Understanding basic principles and instrumentation
- Planning experiments for obtaining meaningful results
- Lectures assisted with multimedia aids

DURATION: 04 WEEKS
04 Nov to 04 Dec, 2026

SEATS: 16 (Limited Seats)

ELIGIBILITY: M.Sc./B. Pharm./ M. Pharm./Ph.D. with Chemistry as one of the major subjects

COURSE FEE: ₹ 10,000 (Non refundable)

VENUE: CSIR-CDRI, Lucknow

COURSE COORDINATOR: Dr. Sanjeev Kanaujia
Sophisticated Analytical Instrument Facility & Research, Div. CSIR-CDRI, Lucknow
sdri.cdri@csir.res.in

TRAINING CURRICULUM

- UV-VIS & FT-IR Spectroscopy**
Theory, instrumentation and applications of UV-VIS and FT-IR spectroscopy. Hands on training on instrument, analytical method development and data analysis.
- HPLC / PDA**
Principles, instrumentation and applications of HPLC/PDA. Theory of chromatography, hands on training on HPLC system, analytical method development and data analysis.
- Mass Spectrometry**
Basic Principles of Mass Spectrometry, instrumentation, MS/MS, fragmentation process and pattern, various MS techniques i.e. EI, AFI-MS, DESI, IMS and MS/MS hands on training on data interpretation and analysis. Applications of LC-MS Techniques in Drug Discovery.
- NMR Spectroscopy**
Basic of NMR Spectroscopy, NMR instrumentation, chemical shifts and spin-spin coupling constants, FT NMR, homo and hetero nuclear two-dimensional NMR. Hands on training on NMR data interpretation, analysis and its variety of applications in Drug Discovery.

EVALUATION OF TRAINEES
Evaluation will consist of the following components
Theory Courses (50 Marks)
(a) Continuous assessment through assignments
(b) Term and examination
Practical Courses (50 Marks)
(a) Guided Experiments
(b) Unguided Experiments

CERTIFICATION
The certificate will be issued to the successful candidates for the course.

IMPORTANT INFORMATION
Hostel Facility: Subject to availability.
About 40% Theory and 60% Practical hands-on sessions as per course curriculum.
Understanding basic principles
Planning experiments for obtaining meaningful results
Interactive sessions

SCAN TO APPLY

KINDLY APPLY THROUGH ONLINE PORTAL
<https://www.cdri.res.in/sdptraining>

IMPORTANT DATES

LAST DATE TO APPLY	INTIMATION TO SELECTED CANDIDATES	COURSE START
10/10/2026	12/10/2026	04/11/2026

CONTACT US
Phone: 0522-2776057
E-mail: sdri.cdri@csir.res.in
Address: CSIR Central Drug Research Institute, 208, Jhansi Road, Lucknow-226005 Uttar Pradesh, India

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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: 04th October, 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

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: 27.09.2026
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 Duration: 390 Hours (70 Days Approx.)

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

Course Code: AGR/Q1209, NSQF Level-2

The individual is expected to be competent in producing good quality vermicompost using correct species of earthworms, materials, vermicomposting techniques in appropriate site/location. The individual also undertakes basic entrepreneurial activities for small enterprise and sell the produced compost as per the competitive market prices.

Course Includes:

- Identify appropriate site and prepare bed for vermicompost
- Inoculate earthworms in prepared unit and manage the vermicompost process
- Harvest vermicompost using approved procedures
- Maintain health and safety at the workplace

Course Start Date: 13th October, 2026

Last date of receiving application: 03.10.2026
Course fee: Rs. 800/-
No. of Seats: 10
Education Qualification: No Formal Education

Course-coordinator
Dr. Probir Kumar Pal
Nodal Skill Development Programme
Dr. Gireesh Nadda

Course Duration: 210 Hours
35 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

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

Course Code: AGR/Q1202, NSQF Level-2.5

A Pesticide and fertilizer applicator is responsible for proper application of pesticides and fertilizers on various crops. S/he will also be responsible for monitoring of pests in the crop and take appropriate measures for not only the protection of crops but also increase the yields.

Course Includes:

- Assess pest infestation and fertilizer needs of the crop
- Prepare and apply pesticides and fertilizers
- Maintain health and safety in the workplace

Course Start Date: 13th October, 2026

Last date of receiving application: 03.10.2026
Course fee: Rs. 1200/-
No. of Seats: 10
Education Qualification:

Criteria 1	Criteria 2	Experience	Training Qualification
9th	Passed	No Experience	None
8th	Passed	1.5 Years	None
5th	Passed	4.5 Years	None
Ability to read and write	None	6 years	None
Previous NSQF qualification	Of Level 2	6 Months experience	None

Course-coordinator
Dr. Probir Kumar Pal
Nodal Skill Development Programme
Dr. Gireesh Nadda

Course Duration: 270 Hours
35 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

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WORKSHOP ON
Precision Agriculture & Its Techniques
under CSIR Integrated Initiative Programme
Explore | Learn | Innovate
for a Smarter & Sustainable Future

OBJECTIVES OF THE WORKSHOP

- Fundamentals of Precision Agriculture and its Techniques
- Hands-on exposure to sensors, drones, and smart farming technologies
- Practical demonstrations on data collection, analysis, and decision support systems
- PRISM awareness session to promote innovation by funding up to Rs. 20 Lakhs

DATES
22nd to 24th September 2026

VENUE
CSIR-CSIO, CHANDIGARH

Registration for this workshop is FREE OF COST
LIMITED SEATS 30 ONLY

Certificate will be awarded to all participants

CONTACT US:
Mr. Narinder Singh Jassal
Scientist-G
nsjassal.csio@csir.res.in
<https://www.csio.res.in/>

Last Date TO Apply
18th September, 2026

CSIR-Central Scientific Instruments Organisation (CSIR-CSIO)
Sector-30C, Chandigarh-160030, India

SCAN to Register



LATEST
NEWS

CSIR-SERC, SNU and SSNCE organise workshop on structural engineering



CHENNAI

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, in association with Shiv Nadar University (SNU) and Sri Sivasubramaniya Nadar College of Engineering (SSNCE), organised a two-day workshop on Structural Engineering at the SSNCE campus on September 10 and 11, 2026, under the CSIR Integrated Skill Initiative.

The workshop was aimed at Civil Engineering students across all academic years, providing exposure to recent developments, emerging technologies and practical applications in structural engineering.

The CSIR Integrated Skill Initiative, a flagship programme of the Council of Scientific and Industrial Research (CSIR), focuses on integrating education, practical skill development and real-world applications. The initiative is aligned with the Skill India vision and the

national objective of building an Atmanirbhar Bharat.

Dr. N. Sivakumar, Professor and Head, Department of Civil Engineering, welcomed the dignitaries and participants. Dr. N. Anandavalli, Director, CSIR-SERC, Dr. R. Radha, Principal, SSNCE, and other dignitaries inaugurated the workshop.

In her presidential address, Dr. Radha emphasised the importance of such workshops in developing scientific temperament among students and acknowledged the contribution of CSIR laboratories in supporting educational institutions. Dr. S. Maheswaran, Scientist-G, CSIR-SERC, gave an overview of the programme.

Dr. Anandavalli highlighted the importance of complementing academic knowledge with practical skills and encouraged students to understand real-world civil engineering challenges and develop innovative solutions.

Scientists from CSIR-SERC delivered technical sessions on contemporary topics. Dr. S. Parivallal spoke on Structural Health Monitoring of Civil Infrastructure, while Dr. A. Kanchana Devi addressed sustainability and circular economy. Shri R.D. Sathish Kumar spoke on intellectual property rights and innovation.

Other sessions covered steel buildings and codes of practice, wind load evaluation, structural vibration and seismic resilience, and the design of concrete structures. The sessions were delivered by Dr. V. Marimuthu, Dr. M. Keerthana, Dr. Mohit Verma and Dr. S. Sundar Kumar.

The workshop was coordinated by scientists from CSIR-SERC and faculty members of SSNCE. The programme helped bridge the gap between academic learning and practical engineering applications, with active student participation and interaction throughout the sessions.

3,000 Sarvodaya students to get vocational skill training

TIMES NEWS NETWORK

Lucknow: Strengthening its focus on skill-based education, UP govt has decided to provide vocational training to students of Jai Prakash Narayan Sarvodaya Vidyalaya, run by the social welfare department.

Under the Uttar Pradesh Skill Development Mission's (UPSDM) 'Project Praveen' for 2026-27, more than 3,000 students across the state will be trained in employment-oriented sectors alongside their regular schooling.

UPSDM has assigned the training target to 31 training provider institutions. Students will receive training in sectors such as apparel, IT-ITES, management and other trades based on their interests and available training options. According to voca-



PROJECT PRAVEEN

To ensure quality, each batch will have a maximum of 35 students, while the training duration will be up to 300 hours. Job roles will be verified through the recognised central portals, ensuring students are trained only in approved trades. Study materials will reach students within seven days of batch commencement.

of 35 students, while the training duration will be up to 300 hours. Job roles will be verified through the recognised central portals, ensuring students are trained only in approved trades. Study materials will reach students within seven days of batch commencement.

UPSDM director Pulkit Khare said, "Our priority is to provide quality training on time so that every student gains practical skills and is better prepared for future employment opportunities."

विदेश में रोजगार के लिए अंतरराष्ट्रीय रोजगार सेल

अमर उजाला ब्यूरो

लखनऊ। प्रदेश के युवाओं को देश ही नहीं, बल्कि वैश्विक रोजगार बाजार से जोड़ने के लिए उप्र कौशल विकास मिशन में अंतरराष्ट्रीय रोजगार सेल का गठन किया गया है। यह प्रकोष्ठ विदेशों में उपलब्ध रोजगार के अवसरों की जानकारी देगा। साथ ही विदेशी कंपनियों की मांग के अनुरूप युवाओं को प्रशिक्षण दिलाने और अंतरराष्ट्रीय रोजगार से जोड़ने का काम करेगा।

मिशन निदेशक पुलकित खरे ने बताया कि कौशल विकास मिशन के तहत 35 प्रमुख सेक्टरों में 1300 से अधिक जाँव रोल के लिए युवाओं को कौशल प्रशिक्षण दिया जा रहा

कौशल विकास मिशन विदेशी कंपनियों के अनुरूप युवाओं को देगा प्रशिक्षण

इन्वेस्ट यूपी के सहयोग से विदेशों में कुशल श्रमिकों की मांग का होगा अध्ययन

है। अब प्रशिक्षित युवाओं को वैश्विक रोजगार बाजार से जोड़ने पर विशेष जोर दिया जाएगा। अंतरराष्ट्रीय रोजगार सेल केंद्र सरकार के विदेश मंत्रालय में पंजीकृत रिक्रूटिंग एजेंटों, सेवायोजन निदेशालय, प्रदेश के मिशन रोजगार और अन्य संबंधित संस्थाओं के साथ समन्वय करेगा।

सेल में डॉ. एमके सिंह सहायक

निदेशक को अध्यक्ष तथा विजय नामदेव सहायक प्रबंधक को नोडल अधिकारी नामित किया गया है। सेल हर 15 दिन में मिशन रोजगार सेल के साथ बैठक और समन्वय कर विभिन्न देशों और सेक्टरों में उपलब्ध रोजगार की नई मांग की जानकारी लेगा। इसके आधार पर योग्य युवाओं का डाटाबेस तैयार कर संबंधित एजेंसियों को उपलब्ध कराएगा। उन्होंने बताया कि प्रकोष्ठ विदेशों में भविष्य में आने वाली संभावित नौकरियों का पूर्व आंकलन भी करेगा। इसकी जानकारी टीपीपी सेल को दी जाएगी, ताकि

जरूरत के अनुसार नए प्रशिक्षण

कार्यक्रम शुरू किए जा

सकें।



(Please click on the link to view the details)

NATIONAL

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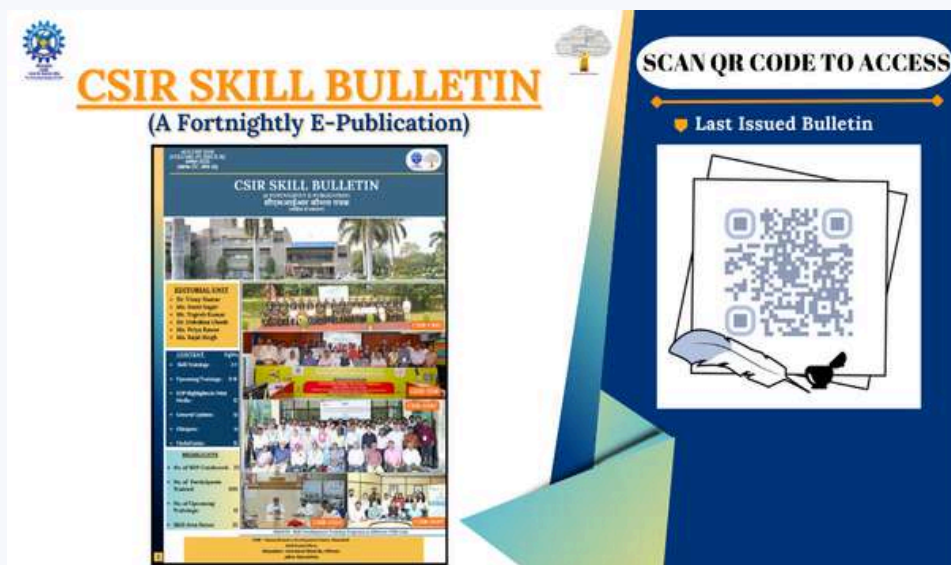
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