

CSIR SKILL BULLETIN (A FORTNIGHTLY E-PUBLICATION)

सीएसआईआर कौशल पत्रक
(पाक्षिक ई-प्रकाशन)

Editorial Team

- Dr Vinay Kumar
- Ms Neeti Sagar

In this issue

- Skill Trainings by CSIR
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- Useful Links



IMAGES: Various Skill Development Training Programs at different CSIR Labs

SKILLING/UPSKILLING TRAINING PROGRAMS BY CSIR

सीएसआईआर द्वारा स्किलिंग/अपस्किलिंग प्रशिक्षण कार्यक्रम

CSIR-NML, Jamshedpur conducted a Skill Development Programme on “Basic of Green Hydrogen Electrolysis Process” (HYC/MCR-0015) LEVEL-6 during 14th - 18th July 2025. The training covered various topics including the Hydrogen Economy and the Hydrogen Rainbow, Hydrogen Production Processes and Electrolysis, Advanced Catalysts for Electrolytic Hydrogen Production, Electrochemical Characterization for Screening of Catalysts and Electrolyzer Systems, and Hands-on Training on Electrode Fabrication and Performance Analysis. This programme was attended by 20 student participants who came from different parts and included Ph.D. scholars, M.Tech. students in Metallurgical Engineering/Materials Science/Chemical Engineering and other allied branches, and students who were pursuing M.Sc. in Chemistry or allied branches.



CSIR-CBRI, Roorkee conducted a three-day national training program on "Latest Trends in Building Construction Technologies" during 16th - 18th July, 2025. 45 students across the country participated in the program. The aim of the program was to impart knowledge to students regarding the latest updates in the building construction sector. The program was inaugurated by Prof. R. Pradeep Kumar, Director, CSIR-CBRI, who emphasized the importance of exposing youth to advanced, sustainable, and environmentally friendly technologies in the construction sector, while also underlining the role of both academic and value-based education. Coordinated by Dr. Tabish Alam, the training covered contemporary topics such as precast and prefab construction systems, energy-efficient building design, and smart construction technologies. Participants were also taken on guided tours of CBRI's state-of-the-art research labs for practical exposure.



CSIR-NPL, New Delhi conducted a Training Programme on "Biomedical Metrology" during 17th -18th July, 2025. A total of 14 participants attended the programme



CSIR-NPL, New Delhi conducted a training programme on "Mass and Dimensional Metrology: Calibration and Measurement Uncertainty Evaluation" during 21th - 25th July, 2025. A total of 33 participants attended the programme



CSIR-NBRI, Lucknow conducted a three-day Skill Development Programme on 'Bioinoculant Producer for Agricultural Application' during 23rd-25th July, 2025, under the aegis of the CSIR-Integrated Skill Initiative Phase-III. A total of 23 officials from the State Agriculture Department, Uttar Pradesh, participated in the programme



CSIR-CMERI, Durgapur conducted a three-day Skill Development Programme on Renewable Energy Systems during 28th - 30th July, 2025. A total of 23 Diploma students actively participated in the programme. The programme was designed to enhance the students' understanding of sustainable energy solutions & equip them with practical insights into clean energy technologies.



CSIR-CBRI, Roorkee conducted a five-day workshop on “Seismic Retrofitting and DPR Preparations” during 28th July – 1st August, 2025, in collaboration with the Himachal Pradesh State Disaster Management Authority (HPSDMA) for 47 engineers of the Himachal Pradesh Government. The workshop was inaugurated with the enthusiastic address of Prof. R. Pradeep Kumar, Director, CSIR-CBRI, who emphasized the necessity of translating research into field applications. He highlighted that collaboration between CSIR-CBRI and HPSDMA could significantly contribute to the field implementation of R&D outcomes and help build a safe and sustainable Himachal Pradesh. The workshop included technical sessions, laboratory visits, field visits, and hands-on experiences. The aim was to provide practical solutions for upgrading and strengthening existing structures—making them safer, more resilient, and sustainable.



CSIR-IIP, Dehradun conducted a two-week Skill Development Training Program on “Testing of Petroleum Products” during 28th July – 8th August, 2025. The training program provided a basic overview of petroleum production, transportation, the scope of crude assay, petroleum product testing, types of distillation, and a brief on Naphtha, Kerosene, ATF, Gasoline, and Diesel fuel specifications and test methods. It also included hands-on practice on various test methods at the Advanced Crude Oil Research Centre, CSIR-IIP. A total of 5 students participated in the program.



UPCOMING EVENTS

आगामी आयोजन





Skill Development Program On "Genetic & Microbial Monitoring of Animals" (GMMA-II)

08th - 16th September 2025





The CSIR-Center for Cellular and Molecular Biology is organizing a hands-on training on **Genetic & Microbial Monitoring of Animals (GMMA-II)** 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 experimentation 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
Dates	: 08 th - 16 th September 2025 (8 days)
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.ccmbr.res.in/training_programs/sdp/

Training Curriculum: (lectures and hands-on sessions)

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

Hands-on:

- Genomic DNA isolation from tail samples and genotyping by standard PCR with gene specific and SNP 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 Real time PCR (qPCR)
- Preparation and observation of agar plates for microbial cultures from different platforms
- Microbial assessment by different staining procedure and ABST
- Biochemical testing by hematology and immunological testing by ELISA
- Fecal examination for endo-parasites and skin scraping for ecto-parasites

Demos:

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

Training Coordinator: Dr. Jerald Mahesh Kumar, Chief Scientist, In-charge, Animal House, CSIR-CCMB, Hyderabad.


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



Skill Development Program On Basic Techniques in Animal Cell Culture

04th to 8th August 2025



CSIR-Center for Cellular and Molecular Biology shall conduct a 5-days hands-on-training workshop on 'Basic Techniques in Animal Cell Culture (BTACC-6)' 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 in animal cell culture using the human/cancer cell lines for various experiments. It will be supported by lectures on basic cell culture techniques, media preparation, gene/protein expression, and cancer cells.

Duration	: 05 days
No. of seats	: 06
Target Audience	: Faculty/ Researcher from Academia/Industries/ Institutes
Minimum Qualification	: Masters in any branch of Life Science/Allied areas
Dates	: 04 th to 08 th August 2025
Mode of the Course	: In-house training at CCMB
Mode of selection	: Application form & Statement of Purpose
Course Fee	: Rs.18000/- including GST & Accommodation
Apply using the link	: http://recruitment.ccmbr.res.in/training_programs/sdp/

Training Curriculum for Course: (includes lectures and hands-on sessions)

- Overview of cell culture laboratory, equipment, and applications
- Description of tissue culture area design & required equipment
- Importance of sterility
- Do's & Don'ts in a Tissue culture lab

Hands-on:

- Aseptic techniques and good cell culture practice (GCCPP)
- Animal cell culture techniques, passaging and maintenance of cell lines
- Preparation of medium and sterility testing
- Cryopreservation (freezing and thawing of cell lines)
- Sub culturing, determination of confluency, cell counting, and viability testing

Demos:


- Demonstration of different cell types and culture procedures.
- Transfection electroporation of cells.
- Cell fusion techniques and collection of feeder cells (macrophages).
- Demonstration of protein expression by transfection through immunofluorescence.
- Mycoplasma testing, MTT Assay.
- Hybridoma Technology




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

Training Coordinators: Mrs. Zareem Begum, Principal Technical Officer, Tissue Culture Facility, CSIR-CCMB, Hyderabad






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



Skill Development Program On "Nanotheranostics for Biomedical Applications"

27th to 31st October 2025

CSIR-Center for Cellular and Molecular Biology shall conduct a hands-on training workshop for five days on "Nanotheranostics for Biomedical Applications" (NANO-3) targeted to faculty members/researchers from universities/institutes/industries and interested individuals in the field of Life Sciences, Medical Sciences, Pharmaceutical Science & allied areas. This training is intended to train about the basic techniques of Nanotheranostics for research in various experiments and supplemented with informative lectures, hands-on training, instrument set-up, data collection and analysis.

No. of seats	: 12-14
Minimum Qualification	: Masters in any branch of Life Science/Allied areas
Dates	: 27 th to 31 st October 2025
Mode of the Course	: In-house training at CCMB
Mode of selection	: Application form & Statement of Purpose
Course Fee	: Rs. 18,000/- (including accommodation)
Apply using the link	: http://recruitment.ccmbr.res.in/training_programs/sdp/

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

Synthesis of:

- Metal nanoparticles
- Polymer nanoparticles
- Targeted nanoparticles
- Organic quantum dots

3D Bioprinting of Hydrogels

Nanotheranostics applications of few synthesized Particles

Characterization study using high-end instruments:


- TEM
- SEM
- FTIR
- Fluorescence Spectroscopy
- Fluorescence Microscopy

Salient Features of the Training:

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

Training Coordinator: Dr. Ira Bhatnagar, Principal Scientist, CSIR-CCMB, Hyderabad.

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



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



CSIR INTEGRATED SKILL INITIATIVE

CSIR-NCL SKILL DEVELOPMENT PROGRAM

"Chromatographic Techniques"

ABOUT COURSE

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

COURSE CONTENT

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

FOR WHOM

- Students
- Academic Researchers
- Industrial Professionals

PRIME INSTRUCTOR & TEAM

Dr. Sanjay Borikar
Dr. Nilakshi Sadavarte
Dr. Snehal More
Dr. Mahesh Kulikarni

HOW TO APPLY

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



COURSE DETAILS

Course: 3 weeks
Date: 01st Nov 2025 - 10th Nov 2025
No. of seats: 10
Eligibility: MSc/Chemical & Life Sciences/Completed 1st year in Equivalent
Last date of registration: 31 August 2025

Course Fee: 5,440/-
Students: 28,000/-
Faculty/Industrial professional: 40,000/-
(The fees stated include 18% GST)

Accommodation: 2 weeks + 3 days with shareable charges.

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

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

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

ncl.sdp@ncl.res.in

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



CSIR Sponsor




September 8th - 12th, 2025
CSIR - Centre for Cellular and Molecular Biology (CCMB), Hyderabad

CCMB Microscopy Course

What You'll Learn:

- Confocal & Super-Resolution Imaging
- Live Cell Imaging, FRET, FRAP, TIRF
- Immunofluorescence (IF) & Immunohistochemistry (IHC)
- BioImage Analysis

Registration Fee
 ₹17,500 (without accommodation)
 ₹20,000 (with accommodation)

Registrations open Wednesday, July 9th, 2025
 Registrations closing date, Friday, Aug 8th, 2025
 Selection announcements August 15th, 2025
 Limited seats available
 Priority to Ph.D. scholars, postdocs, researchers



EXPLORE IMAGE ANALYSE

Organized by the Advanced Microscopy & Imaging Facility (AMIF), CSIR-CCMB, Hyderabad, Telangana.

COORDINATORS
 Dr. Mahesh Nitla
 Mr. Suman Bandari

Scan for more information



Scan to Apply



SUPPORT & SPONSORSHIP
 Carl Zeiss
 DSS Imagetech
 Medialy Solutions
 Tochnival Brothers
 Leica Microsystems






"CCMB Microscopy Course (CMC-2025)"

8th - 12th September 2025 (Monday to Friday)

The CSIR-Centre for Cellular and Molecular Biology (CSIR-CCMB), Hyderabad, is pleased to announce the "CCMB Microscopy Course (CMC-2025)", a specialized hands-on training program designed for Ph.D. scholars, Post-Doctoral researchers from academic institutions and industry working in Life Sciences, Medical Sciences, Pharmaceutical Sciences, and allied fields.

This intensive five-day workshop offers a comprehensive blend of theoretical insights and practical training in both foundational and advanced microscopy techniques.

Designed for small, focused groups, the workshop encourages active learning through expert lectures, guided experiments, and collaborative engagement-offering participants a holistic exposure to modern microscopy workflows from sample preparation to image interpretation.

No. of seats:	: 15
Minimum Qualification:	: Masters in any branch of Life Science/Allied areas
Dates:	: 8 th - 12 th September 2025 (Monday to Friday)
Mode of the Course:	: In-house training at CCMB
Mode of selection:	: Application form & Statement of Purpose
Course Fee:	: Rs. 17,500/- (Without Accommodation)
(Including accommodation & GST):	: Rs. 20,000/- (With Accommodation)
Application link:	: http://recruitment.ccmb.res.in/training_programs/tdp/

Training Curriculum:

- Fundamentals of Light Microscopy
- Dedicated sessions on Hands on Sample Preparation and Imaging Best Practices
- Immunofluorescence (IF) and Immunohistochemistry (IHC)
- Super-Resolution Techniques: Airy scan, STED, SDM
- Live Cell Imaging: FRET & FRAP Experiments
- Quantitative Image Analysis and Interpretation.

Course Programme



Salient Features of the Training:

- Direct interaction with national and international microscopy experts
- Hands-on sessions using state-of-the-art confocal and super-resolution systems
- Dedicated modules on live cell imaging and fluorescence-based techniques
- Software demonstrations and data analysis sessions
- Certificate of participation from CSIR-CCMB
- Networking and mentoring opportunities
- Training on immunofluorescence and immunohistochemistry protocols using cultured cells and tissue sections
- Exposure to tissue processing, paraffin-sectioning, and staining techniques (H&E)
- Insights into recent advances and applications of Light Microscopy innovations.
- Opportunities to interact with microscopy companies for technology updates and demonstrations
- Limited participant intake to ensure focused, hands-on engagement





Course Coordinator:
 Dr. Nita Venkata Mahesh
 Scientist & Facility In-Charge, Advanced Microscopy and Imaging Facility, CSIR-CCMB.
 E-mail: maheshnitla@ccmb.res.in

Mr. Suman Bandari
 Senior Technical Officer, Advanced Microscopy and Imaging Facility, CSIR-CCMB.
 E-mail: sumanb@ccmb.res.in

Course Organizers:
 Dr. Santosh Chaudhan, Dr. P Chandra Shekar, Dr. Santosh Kumar,
 Dr. Kiran Kumar Bokara, Dr. Ishwariya Venkatesh, Dr. Mahesh Nitla

Scan to Apply



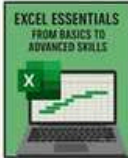
EXCEL ESSENTIALS : FROM BASICS TO ADVANCED SKILLS

August 26, 2025 (01 day)

Program Coverage:-

- Basic Navigation: Workbooks/Sheets, Wrap and fit, "Add/Delete/Hide/Freeze Columns/Rows", Sort/Custom sort and Filter
- Merging and Separating Data: Flash Fill, Ampersand (&) operator, Text to Columns, Trim
- Formulas and Functions: Functions for Text and Numbers, Simple Math, Combine cells
- Merging with VLOOKUP and LOOKUP
- Pivot Tables and Pivot Charts

Benefits to participants:
 Participants will gain practical skills to confidently navigate, organize, and analyze data in Excel using essential tools like sorting, filtering, formulas. They will learn to clean, merge, and extract insights from data using functions and basic text/number operations. These hands-on skills will boost their productivity, data handling efficiency, and readiness for more advanced data analysis tools.



Course Fee:
 For Academics - Rs. 1000/-
 For Industry - Rs. 2000/-


Eligibility:
 12th pass/Graduate/Post Graduate/Ph.D.

Course Coordinator:
 Dr. Sandeep Singh

SEATS - 20

Venue
 CSIR - IITR
 P.S. Mary Campus

Share



For queries contact:
 Monika Yadav (Project Associate-1)-7905199463
 Sadiya Zafar (Project Associate-1)-9838608758
 Dr. Ravi Ram Kristipati (Nodal Scientist)-9307449236
 sdp1.iitr@iitr.res.in | sdp1iitr@gmail.com

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<https://iitr.res.in/En/SDP.aspx>

SCHEMATIC COURSE FEE IS ONLY FOR IMPARTING TRAINING. ADDITIONALLY, WHEREVER APPLICABLE, CANDIDATES HAVE TO MAKE THEIR OWN ARRANGEMENTS (RELATED TO LODGING-BOARDING, TRAVEL, LOCAL TRANSPORTATION, ETC.) AND BEAR THOSE EXPENSES ON THEIR OWN. THE FEE ONCE PAID IS NOT RETURNED, UNLESS THE COURSE IS CANCELLED. DO NOT BOOK YOUR TICKETS UNTIL WE SEND YOU A CONFIRMATION MAIL FROM OUR SIDE.

CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH, (CSIR-IITR) VISHUDEVAN SHAWAN, 31 MAHATMA GANDHI MARG, LUDHIANA-141001



सौएसआईआर - राष्ट्रीय अंतर्विषयी विज्ञान तथा प्रौद्योगिकी संस्थान



CSIR - NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY (NIIST)

CSIR-NIIST Golden Jubilee Conclave on

CAREER OPPORTUNITIES AND SKILL DEVELOPMENT IN R & D SECTORS

12 August 2025

CSIR-NIIST Thiruvananthapuram

Register Here



HIGHLIGHTS

- Focus on Academic and Industry R&D careers
- Panel of Experts from top academic institutes, industries and Strategic Institutions
- Interactive sessions on Resume Building, Skill training, Communication and Interview skills

WHO CAN APPLY?

- > M Sc./M. Tech Students
- > PhD Scholars
- > Early Career Researchers

REGISTRATION FEE

Rs. 500/- + GST

Registrations based on First Come First Serve Basis
 Only 200 Limited Seats Available




Fundamentals & Application of Staining Techniques in Toxicopathology : From Basics to Advanced Methods

August 18-22, 2025 (05days)

Program Coverage:-

- Principles of tissue fixation and processing, to understand the optimal staining results
- Hands-on training for tissue processing
- Hands-on training in routine and special staining techniques, including H&E, PAS, Masson's Trichrome, and immunohistochemistry.
- Interpretation of stained tissue sections for diagnostic and research applications in toxicopathology.
- Troubleshooting common staining artifacts and optimizing protocols for reproducibility.

Course Fee:
For Academia - Rs. 5000/-
For Industry - Rs. 8000/-

Eligibility:
B.Sc./B.Pharm./M.Sc./M.Pharm./B.V.Sc.

Course Coordinator:
Dr. Beena V
Dr. Pankaj R. Jagdale
Dr. Pradeep Kumar Singh

Last registration date: August 04, 2025



Tissue Embedding Station



Automated Slide Stainer



Digital Microscope



Rotatory Microtome







Venue
CSIR - IITR
CRK. Campus

SCAN HERE FOR PAYMENT-



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For queries, contact:
Monika Yadav (Project Associate-1)- 7905199463
Sadiya Zafar (Project Associate-1)- 9838608758
Dr. Ravi Ram Kristipati (Nodal Scientist)- 9307449236
sdpl.iitr@iitr.res.in . sdplitr@gmail.com

COURSE FEE IS ONLY FOR IMPARTING TRAINING. ADDITIONALLY, WHEREVER APPLICABLE, CANDIDATES HAVE TO MAKE THEIR OWN ARRANGEMENTS (RELATED TO LODGING/BOARDING, TRAVEL, LOCAL TRANSPORTATION, ETC.) AND BEAR THOSE EXPENSES ON THEIR OWN. THE FEE ONCE PAID IS NOT REFUNDED, UNLESS THE COURSE IS CANCELLED. DO NOT BOOK YOUR TICKETS UNTIL YOU GET A CONFIRMATION MAIL FROM OUR SIDE.

CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH, (CSIR-IITR) INDUSTRIAL ESTATE SAROJINI NAGAR LKO, UTTAR PRADESH, 226001




WORKSHOP ON 3D BIOPRINTING

Learnings-

- Fundamentals of 3D Bioprinting
- Introduction of different types of bioprinting
- Fabrication and characterization of bioink
- Printability and 3D bioprinting parameters
- Post printing processing

Date:-07.08.2025-08.08.2025 (2 Days)




Benefits of Attending the Training Program:

- Gain essential knowledge and technical skills for research in 3D bioprinting
- Hands-on experience with advanced 3D bioprinter
- Learn to formulate bioink with different polymers

COURSE COORDINATORS
Dr. Nandita Dasgupta
Dr. R. Parthasarathi

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

CLICK/SCAN HERE TO REGISTER
<https://iitr.res.in/En/SDP.aspx>



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STUDENT COORDINATORS
Monika Yadav - 7905199463
Sadiya Zafar - 9838608758
Dr. Ravi Ram Kristipati (Nodal Scientist)- 9307449236

*Course fee is only for imparting training. Additionally, wherever applicable, candidates have to make their own arrangements (related to lodging/boarding, travel, local transportation, etc.) and bear those expenses on their own. The fee once paid is not refunded, unless the course is cancelled. Do not book your tickets until you get a confirmation mail from our end.

CSIR-Indian Institute of Toxicology Research, (CSIR-IITR) Vishvgyan Bhawan, 31 Mahatma Gandhi Marg, Lucknow-226001




WORKSHOP ON ESSENTIAL TECHNIQUES AND BIOSAFETY IN MICROBIOLOGY RESEARCH LABORATORY

Learnings-

- Microbiology Tools and Techniques: Principle and Application
- Microbial Analysis in Soil, Water and Food
- Microbial hazard, risk and management
- Biosafety practices in Microbiology laboratory
- Role of Microbes for Pollution abatement

Date:-19.08.2025-21.08.2025



Venue
CSIR- IITR
M. G. Marg, Lucknow





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CSIR-Indian Institute of Toxicology Research, (CSIR-IITR) Vishvgyan Bhawan, 31 Mahatma Gandhi Marg, Lucknow-226001




Environmental Monitoring Instruments and Analyzers for Assessment of Air and Water Pollution – Hands-on Training

Learn With us :

- Instrumental techniques for sampling and monitoring of environmental pollution and industrial emissions
- Computational tools for analysis and assessment of environmental monitoring data
- Collection of samples, and physico-chemical characterization of environmental and industrial pollution samples
- Identification and analysis of micro-organisms from the ambient air samples
- Generation of aerosols and size distribution analysis of atmospheric particle pollution

DATE: 11.08.25 - 13.08.25 (3 days)

-TIME: 10:00 AM ONWARDS

-ELIGIBILITY: B.Tech. / M.Tech. in Environmental/Civil/Chemical/ Mechanical Engineering Or B.Sc. / M.Sc. in Environment/Chemistry/ Physics

-REGISTRATION FEES:
(For Academia- Rs.3000/-)
(For Industry- Rs.6000/-)

-LAST DATE OF REGISTRATION: 01.08.25





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Sadiya Zafar - 9838608758
Dr. Ravi Ram Kristipati (Nodal Scientist)- 9307449236

COURSE COORDINATORS
Dr. B. Sreekanth
Dr. Abhay Raj

Venue
CSIR- IITR
C.R. Krishnamurti (CRK)
Campus Gheru, Lucknow

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

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CSIR-Indian Institute of Toxicology Research, CRK Campus, Gheru, Lucknow-226001

Training for whom

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

Methods of Teaching

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

Faculty

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

Selection Procedure

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

Payment Details

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

The Director,
CSIR-NIIST (Regional Research Laboratory)
Account No: 67047723825
IFSC Code: SBIN0070030
Bank : State Bank of India, Pappanamcode Industrial Estate

Sponsorship

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

Vision

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

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

Mission

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

Course Objectives

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

Technical Expertise

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

Salient Features of the Course

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



CSIR-NIIST
THIRUVANANTHAPURAM

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



CSIR Integrated Skill Initiative

SKILL DEVELOPMENT TRAINING CALENDAR 2025-26

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




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

SKILL DEVELOPMENT TRAINING CALENDAR 2025-26	SKILL DEVELOPMENT TRAINING CALENDAR 2025-26	SKILL DEVELOPMENT TRAINING CALENDAR 2025-26
Diffraction & Microscopy Techniques for Material Characterization Duration : 10 Days Start Date : June 2025 Fees : Rs. 7500 Mode : Offline	Remote Sensing and GIS Applications in Environmental Impact Assessment and Management Duration : 5 days Start Date : August - September 2025 Fees : Rs. 1500 (Students) Mode : Online Rs. 5000 (Sponsored)	Synthetic Organic Chemistry – Hands-on Training on Fundamentals and Specialized Reactions Duration : 2 Months Start Date : October - November 2025 Fees : Rs. 15,000/- Mode : Offline
Spectroscopic Techniques (FT-IR, UV Vis & Fluorescence Spectroscopy) for Researchers Duration : 2 days Start Date : May 2025 Fees : As part of SSR of CRG Project Mode : Offline	Printed Electronics Based Advanced Device Fabrication Duration : 2 days Start Date : August 2025 Fees : Rs. 1800 (students) Mode : Offline Rs. 3000 (Industry)	Catalysing Careers: Opportunities in Chemical, Pharmaceutical, and Life Sciences Duration : 1 Day Start Date : October 2025 Fees : Rs. 1000 Mode : Online
Research-linked Innovative Learning Techniques for High School and Higher Secondary School Students from Rural Villages Duration : 3 Months Start Date : May 2025 – March 2026 Fees : As part of CSR activities of MC Dean Systems Private India Limited 25 No's each (Applied for Funds) Mode : Offline	Workshop on Atomic Absorption Spectrophotometer (AAS) Duration : 3 days Start Date : August or September 2025 Fees : Rs. 1000 Mode : Offline	Mechanical Testing and Thermal Characterisation Duration : 3 days Start Date : November 2025 Fees : Rs. 3000 Mode : Offline
Career Guidance and Soft-Skill Training Program for High School & Higher Secondary School Students from Rural Villages Duration : 1 Day Start Date : May 2025 – March 2026 Fees : As part of CSR activities of MC Dean Systems Private India Limited (Applied for Funds) Mode : Offline	Value Addition of Fruits and Vegetables Duration : 3 Days Start Date : August 2025 Fees : Students: Rs. 5,000 Mode : Offline Faculty : Rs. 7,500, Industry: Rs. 10,000	Food Packaging Duration : 10 Days Start Date : November 2025 Fees : 10,000/-+GST Mode : Offline
Advanced Metal Casting and Manufacturing Technology Duration : 3 days Start Date : June 2025 Fees : Rs. 3000 Mode : Offline	Techniques of Phytochemical Profiling & Characterization Duration : 1 Month Start Date : August - September 2025 Fees : Rs. 5000 Mode : Offline	Training Program On Comprehensive Herbal Drug Development Duration : 5 Days Start Date : November 2025 Fees : Students: Rs. 5,000 Mode : Offline Faculty - Rs. 7,500, Industry: Rs. 10,000
Course on Circular Economy and Sustainable Technologies Duration : 2 days Start Date : June 2025 (1 st Session) Fees : Rs. 5000 Start Date : November 2025 (2 nd Session) Mode : Offline	Characterization of Plant Based Proteins for Sustainable Food Formulation Duration : 5 Days Start Date : August / September 2025 Fees : Rs. 3000 Mode : Offline	Hands on Training In Immunology Techniques and qPCR Duration : 5 Days Start Date : November 2025 Fees : Rs. 3000/- Mode : Offline
Structure Elucidation of Organic Molecules by NMR Duration : 5 days Start Date : June 2025 Fees : Rs. 10,000 Mode : Offline	Surface Engineering and Corrosion Duration : 3 days Start Date : September 2025 Fees : Rs. 3000 Mode : Offline	Application of process engineering in Sustainable Energy & Environmental Management Duration : 1 Day Start Date : November 2025 Fees : Student/Research : Rs. 1,000/- Mode : Offline Faculty: Rs. 2,000/-; Industry person: Rs. 3,000/-
Introduction to Industrial Adhesives Duration : 2 days Start Date : July 2025 Fees : Rs. 3000 Mode : Offline	Magnetic Characterisation Using PPMS Duration : 2 days Start Date : September 2025 Fees : Rs. 1500 (students) Mode : Offline Rs. 3000 (Industry)	Environmental Microbiology Techniques and Biosafety Practices Duration : 2 days Start Date : December 2025 Fees : Rs. 1500 Mode : Offline
Hands-On Training In Bacterial Outer Membrane Vesicles (OMVs) Isolation & Basic Molecular Biology Techniques Duration : 5 days Start Date : July 2025 Fees : Rs. 2500 Mode : Offline	Advanced Skill Training on Spectroscopic techniques (FT-IR, UV-Vis & Fluorescence Spectroscopy) Duration : 10 Days Start Date : Sep 2025 & Dec 2025 Fees : Rs. 3000 Mode : Offline	Basic Training on Spectroscopic techniques (FT-IR, UV-Vis & Fluorescence Spectroscopy) Duration : 10 days Start Date : Jan - Feb 2026 Fees : Rs. 3000 Mode : Offline
Phytochemical Analysis and Characterization Using Chromatographic Techniques Duration : 4 days Start Date : July 2025 Fees : Students: Rs. 3,500 Mode : Offline Faculty - Rs. 5,000, Industry: Rs. 6000	Nutritional Analysis (Includes Proximate, HPLC, GC) Duration : 1 Month Start Date : September 2025 Fees : Rs. 10,000/- Mode : Offline	Training Programme on Analysis of Fats and Oils Duration : 3 Days Start Date : January 2026 Fees : Students: Rs. 8,000 Mode : Offline Faculty - Rs. 7,500, Industry: 10,000
Algal Lipidomics: Scaleup and FAME Profile by GC-MS Duration : 5 days Start Date : 27 - 31 August 2025 Fees : Rs. 5000 (Academia) Mode : Offline Rs. 7500 (Industry)	Training Program on Baking Technology Duration : 3 Days Start Date : September 2025 Fees : Rs. 3000 Mode : Offline	Construction of Genetically Engineered Microorganism Duration : 5 Days Start Date : January 2026 Fees : Rs. 10,000 & Rs. 15,000 Mode : Offline for Sponsored Candidates
Intellectual Property Rights, Patents and Practice Duration : 3 Months Start Date : August 2025 Fees : Rs. 3000/- Mode : Offline (Only for students of CSIR-NIIST)	Value Addition of Spices Duration : 3 Days Start Date : October 2025 Fees : Students: Rs. 5,000 Mode : Offline Faculty - Rs. 7,500, Industry: Rs. 10,000	Sol Gel Synthesis and Coatings Duration : 5 Days Start Date : January 2026 Fees : Rs. 5,000 Mode : Offline

Skill Development Training Calendar 2025-26
CSIR-National Physical Laboratory, New Delhi

Training Fee/Charges: Per Participant:

One Day Course	Two Days Course	Three Days Course	Four Days Course	Participants:
₹3,000 + GST (@18%)	₹4,000 + GST (@18%)	₹5,000 + GST (@18%)	₹6,000 + GST (@18%)	Professionals
₹500 + GST (@18%)	₹1000 + GST (@18%)	₹1500 + GST (@18%)	₹2000 + GST (@18%)	Students and college faculties

TDS: CSI-NPL is exempted from Tax Deduction at Source under Section 35(1)(ii) of the IT Act 1961. The Training Fee includes Course materials, Training Kit, Lunch, Tea/Coffee, Certificate etc.

After confirming with HRD, preferably training fees should be sent at least two weeks prior to the commencement of the desired training program through a Demand Draft drawn in favor of the "DIRECTOR, NATIONAL PHYSICAL LABORATORY", payable at "NEW DELHI"

Online Transfer is also acceptable through Canara Bank Account No. 91002010030018, NPL Campus, National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi-110012. IFSC Code CNRB0019100, MICR no. 110018428. Kindly confirm the NEFT transfer details through e-mail. In the remarks column of NEFT, please mention "STP No. & Name of the Participants, HRD, NPL"

All STP courses will be conducted in offline mode, unless there is any inescapable situation. Participants are requested to check their schedules before applying for any course. No request from participants for changes in venue, date, or mode of training will be entertained.

Lodging & Boarding: Participants are expected to arrange their own accommodations as limited seats are available at NPL Guest House. However, after the payment of registration fees, requests may be sent to nplguesthouse@nplindia.org with HRD in cc. Please note that guest house charges have to be borne by the trainees - at the prevailing rates of NPL Guest House.

For registration kindly fill the following Google form link:

<https://forms.gle/4XcYoTdujGZckqmR8>

For any enquiry, the Participants may contact:-

Mr. Pushkar Joshi
Sr. Technician, HRD Office,
National Physical Laboratory, New
Delhi Pin: - 110012
Ph: - 011-4560 9361, / 011-4560 9366(O)
E-Mail: - hrd@nplindia.org

S. No.	Title of Training Program on	Tentative Dates, Duration
STP-1	Workshop on Advanced Instrumentation Techniques for Material Analysis	18-20 June, 2025, 3 days
STP-2	Training program on mass and dimensional metrology, calibration and measurement uncertainty evaluation.	21-25 July, 2025, 5 days
STP-3	Biomedical Metrology	17-18 July, 2025, 2 days
STP-4	DC Metrology	12-13 August, 2025, 2 days
STP-5	Training Programme on Fluid Flow Metrology	18-20 August, 2025, 3 days
STP-6	Air Quality Measurements	10-12 September, 2025, 3 days
STP-7	Training Program on Plastic Processing, Waste Management and Recycling	8-10 September, 2025, 3 days
STP-8	Force, Torque and Hardness Metrology	17-18 September, 2025, 2 days
STP-9	Impedance Metrology	29-30 September, 2025, 2 days
STP-10	Temperature, Humidity and Moisture Metrology	12-14 November, 2025, 3 days
STP-11	Awareness Program on E-waste Management and Recycling	17-18 November, 2025, 2 days
STP-12	Optical Radiation Metrology	19-21 November, 2025, 3 days
STP-13	Acoustic and Vibration Metrology	26 November, 2025, 1 day
STP-14	Material Metrology	3-4 December, 2025, 2 days
STP-15	Time & Frequency Metrology	19-21 January, 2026, 3 days
STP-16	Symposium Battery Testing and Calibration	22-23 January, 2026, 2 days
STP-17	Training Program on Advance Materials Characterization Techniques	11-13 February, 2026, 3 days
STP-18	Laser Interferometer and Dimensional metrology	18-20 February, 2026, 3 days
STP-19	Workshop on terahertz technologies	4-6 March, 2026, 3 days
STP-20	Scientific Communications	12-13 March, 2026, 2 days

Free Skill Training Programme on 2025-2026

S. No.	Title of Training Program on	Tentative Dates, Duration
FSTP-1	Awareness about Basic Metrology	3-4 February, 2026, 2 days

S. No.	Title of Training Program on	Tentative Dates, Duration	Content of the Training Programme	Technical Coordinator's
STP-1	Workshop on Advanced Instrumentation Techniques for Material Analysis	18-20 June, 2025, 3 days	This workshop offers a specialized, hands-on learning experience (for few equipment) focused on advanced techniques for materials characterization. This programme is designed to equip participants with both theoretical knowledge and practical skills in the use of state-of-the-art tools essential for analyzing and understanding the properties and behavior of advanced materials.	Dr. N. Viswan nviswan@nplindia.res.in Ph: - 011-45608263
STP-2	Training program on mass and dimensional metrology: calibration and measurement uncertainty evaluation.	21-25 July, 2025, 5 days	Calibration of weights employing substitution method, Volumetric glassware and balances, Vernier caliper, micrometer, gauge blocks, height gauges and angle gauges etc., followed by measurement uncertainty evaluation for all the parameters.	Dr. Nidha Singh NidhaSingh@nplindia@Csir Res.I Ph 01147091139
STP-3	Biomedical Metrology	17-18 July, 2025, 2 days	Biomedical Metrology: Biomedical parameters, uncertainty evaluation, Calibration of medical device analyzers & simulators and testing of medical devices	Dr. Sudesh Yadav sudesh.yadav@nplindia.res.in Ph: 011-45609362
STP-4	DC Metrology	12-13 August, 2025, 2 days	Metrological traceability and Calibration of Digital Multimeter, Multifunction Calibrator, DC Voltage, Current and Resistance, Low Value Resistance and High Value Resistance, DC Voltage Ratio, DC High Voltage/ Current along with uncertainty in measurement	Dr. Hemavathi A. hkarthik.nplindia@csir.res.in
STP-5	Training Programme on Fluid Flow Metrology	18-20 August, 2025, 3 days	Introduction to fluid flow measurements, types of fluid flow standards (primary, secondary, reference/ transfer standards), various types of flow-meters and their applications, testing and calibration procedures of water meters, water flowmeters and gas flowmeters.	Dr. Shiv Kumar Jaiswal skjaiswal@nplindia.org Ph: 011-45609426/8583

STP-6	Air Quality Measurements	10-12 September, 2025, 3 days	National ambient air quality standards (NAAQS), quality infrastructure (as per ISO/IEC 17025), general definitions, gas measurement techniques (greenhouse and pollution gases), PM10 and PM2.5 measurements and their calibration (gravimetric sampler, FRM, BAM), particle size concentration measurement, gas standard preparation (ISO 6142, ISO 17034) and analysis (by GCs and CRDS), calibration of analyzers, dilutors, primary techniques of gaseous pollutant measurements (including wet chemical), airflow measurement techniques, analysis of particulate bound chemicals using ICP-OES, measurement uncertainty estimations, with hands-on training on most of the parameter of NAAQS, Noise pollution and ambient sound standard and measurement techniques.	Dr. Shankar G. Aggarwal aggarwalsg.nplindia@csir.res.in
STP-7	Training Program on Plastic Processing, Waste Management and Recycling	8-10 September, 2025, 3 days		Dr. Parveen Saini psaini@nplindia.org 011-45609505/8627
STP-8	Force, Torque and Hardness Metrology	17-18 September, 2025, 2 days	Calibration of Force, Torque and Hardness parameters along with laboratory demonstration and followed by measurement uncertainty evaluation for all the parameters.	Dr. Rajesh Kumar kumar@nplindia.res.in Ph: 1145608680 01145608674
STP-9	Impedance Metrology	29-30 September, 2025, 2 days	Metrological traceability and Calibration of LCR Meter, AC Resistance, Capacitance, Inductance with various techniques along with uncertainty in measurement	Dr. Satish satish.nplindia@csir.res.in
STP-10	Temperature, Humidity and Moisture Metrology	12-14 November, 2025, 3 days	Calibration and Testing in Temperature, Humidity and Moisture Metrology	Dr. D. D. Shivagan shivagan@nplindia.res.in

STP-11	Awareness Program on E-waste Management and Recycling	17-18 November, 2025, 2 days		Dr. Parveen Saini pkasaini@nplindia.org 011-45609505/8627
STP-12	Optical Radiation Metrology	19-21 November, 2025, 3 days	Basics in calibration and measurement of parameters of optical radiation metrology and related standards	V K Jaiswal jaiswalvk@nplindia.res.in
STP-13	Acoustic and Vibration Metrology	26 November, 2025, 1 day	Acoustic and Vibration Metrology, Uncertainty evaluation	Dr Naveen Garg ngarg.nplindia@csir.res.in
STP-14	Material Metrology	3-4 December, 2025, 2 days	Dielectric Constant Measurement, Electrolytic Conductivity, Resistivity and Conductivity of Solid Reference Materials along with uncertainty in measurement	Dr. Satish satish.nplindia@csir.res.in
STP-15	Time & Frequency Metrology	19-21 January, 2026, 3 days	Basics of atomic clocks, measurement & dissemination techniques, and applications of T&F Metrology	Dr. Poonam Arora arorap@nplindia.res.in
STP-16	Symposium Battery Testing and Calibration	22-23 January, 2026, 2 days	Battery Testing and Calibration: Present and Future	Dr. Satish satish.nplindia@csir.res.in
STP-17	Training Program on Advance Materials Characterization Techniques	11-13 February, 2026, 3 days		Dr. Parveen Saini pkasaini@nplindia.org 011-45609505/8627
STP-18	Laser Interferometer and Dimensional metrology	18-20 February, 2026, 3 days	Laser Interferometer, GBI, LMM, ZyGO etc.	Dr. Mukesh Jewariya jewariya.mukesh@nplindia.res.in
STP-19	Workshop on terahertz technologies	4-6 March, 2026, 3 days	Basics of terahertz technologies, spectroscopy and imaging	Dr. Mukesh Jewariya jewariya.mukesh@nplindia.res.in
STP-20	Scientific Communications	12-13 March, 2026, 2 days	Scientific Writing, Ethics, Plagiarism etc.	Dr. Mukesh Jewariya jewariya.mukesh@nplindia.res.in

Free Skill Training Programme for 2025-2026


S. No.	Training Program	Dates & Duration	Content of the Training Programme	Technical Coordinator
FSTP-1	Awareness about basic metrology	3-4 February 2025, Two Days	This program is intended to provide awareness about basic metrology. The sessions shall cover basics of measurement systems both at national and international level. In addition, it shall summaries an overview of SI units before and after redefinition. Also, metrological terms will be introduced along with requirement on equipment. Furthermore, basics of measurement uncertainty will be discussed in detail. This online training program has specifically designed for accredited labs, students, researchers, and academicians.	Dr. Nidhi Singh Ph: 011-47091139/2139 singhnidhi@nplindia.org

NEWS CLIPPINGS

न्यूज़ क्लिपिंग

■ Skill India Mission Marks 10 Glorious Years with National Celebrations


Marking a decade of the Skill India Mission launched to empower India's youth through training, apprenticeships, and global mobility, the Ministry of Skill Development and Entrepreneurship observed a week-long celebration hosting events across the country. Union Minister Shri Jayant Chaudhary led the commemorations, hailing the journey as "Kaushal ka Dashak," with over 1.64 crore youth trained under PMKVY and reforms in the last decade. The celebrations culminated at Bharat Mandapam, New Delhi, with the launch of new skilling initiatives, including a national programme on AI skilling for school children and a special pilot scheme to support apprentices in the North Eastern Region.



Skill India
कौशल भारत - कुशल भारत

Celebrating a decade of empowering India's Youth

July 15, 2025



CoE Inaugurated in Bengaluru to Skill 4 Lakh Students for Future Jobs

Union Minister Shri Jyotiraditya M. Scindia inaugurated the VTU-VRIF-TCOE Centre of Excellence at the Visvesvaraya Research & Innovation Foundation (VRIF) premises of Visvesvaraya Technological University (VTU) in Nagarbhavi, Bengaluru. This facility serves as the central hub in a nationwide hub-and-spoke model, with its influence extending to VTU's 228 affiliated colleges through collaborative innovation programmes in 5G/6G, AI/ML, AR/VR, quantum computing, and healthcare technologies. The CoE is mandated to equip over 400,000 students with future-ready skills in deep-tech fields like 5G/6G, AI, quantum computing, and AR/VR. The Centre brings together over 20 startups, 30 academic institutions, and industry leaders under one ecosystem, with support from the Telecom Sector Skill Council for structured skilling programmes.

कौशल विकास

कौशल विकास मंत्री ने लांच किया स्किलिंग फार एआइ रेडीनेस कार्यक्रम, छात्रों के लिए 15-15 घंटे तो शिक्षकों के लिए 45 घंटे का ट्रेनिंग माड्यूल

अब कक्षा छह से एआइ का प्रशिक्षण ले सकेंगे स्कूली छात्र

जागरण न्यूज़, नई दिल्ली

हर क्षेत्र में कृत्रिम बुद्धिमत्ता (एआइ) के बढ़ते प्रभाव को देखते हुए केंद्र सरकार ने महत्वपूर्ण कदम उठाया है। स्कूल स्तर से एआइ को शिक्षा दिए जाने के प्रयत्नों के बीच कौशल विकास एवं उद्यमशीलता मंत्रालय ने स्कूली छात्रों और शिक्षकों के लिए स्किलिंग फार एआइ रेडीनेस (एसओएआर) कार्यक्रम बनाया है। इन डिजिटल ट्रेनिंग माड्यूल का शुभारंभ मंगलवार को कौशल विकास एवं उद्यमशीलता राज्यमंत्री (स्वतंत्र प्रभार) जयंत चौधरी ने किया और कहा कि छात्र कौशल को विकल्प नहीं, प्रथमिकता के रूप में लें।

शैक्षणिक कार्टेजिल फार खेकेशनल एनुकेशन एंड ट्रेनिंग (एससीबीईटी) द्वारा तैयार इस कार्यक्रम में सरकार का सौच रूपों को एआइ के संबंधित आवश्यक प्रशिक्षण दिलाने का है। मंत्रालय का मानना है कि एआइ संबंधी प्रशिक्षण को स्कूली शिक्षा से जोड़कर उसी स्तर से प्रयास किया जाए तो भविष्य के लिए ऐसी पोजीटिव तैयार होती जाएगी। इसके लिए अडिफिशियल इंटेलिजेंस कोई चुनौती नहीं होकर, अवसर बन जाएगा। इसे देखते हुए ही स्कूली शिक्षा स्तर के चार एआइ ट्रेनिंग माड्यूल बनए गए हैं। छात्रों के लिए 15-15 घंटे के तीन पाठ्यक्रम (एआइ टू बी अवेयर, एआइ टू एक्वायर और एआइ टू एम्पायर) हैं, जबकि शिक्षकों के लिए 45 घंटे का एक पाठ्यक्रम (एआइ फार एनुकेटर्स) है। यह सभी ट्रेनिंग माड्यूल आनलाइन मोड में होंगे। छात्र जब स्किल इंडिया डिजिटल हब पोर्टल पर पंजीकरण करेंगे तो उसके साथ 'असर आइटो' भी देनी होगी, जो कि स्कूली शिक्षा का साथ ब्यौर रखने के लिए है। अगर आइटो से लिंक होने के बाद प्रशिक्षण को प्रक्रिया आगे बढ़ेगी। प्रशिक्षण पूरा होने के बाद आनलाइन ही आकलन

होगा कि छात्र कितना प्रशिक्षित हुआ। अगले चरण में आटोमेटिक प्रमाण-पत्र तैयार हो जाएगा और छात्र का वह डाटा स्किल इंडिया डिजिटल हब के साथ ही अकाडमिग बाडी के पास चला जाएगा। यह प्रशिक्षण करने पर छात्रों को एक माड्यूल पुर करने पर छात्रों के अकादमिक खाते में 0.5 अंक क्रेडिट हो जाएगा, जबकि 45 घंटे की ट्रेनिंग के बाद शिक्षकों को 1.5 क्रेडिट अंक मिलेंगे।

कार्यक्रम में केंद्रीय वाणिज्य एवं व्यापार राज्यमंत्री जितिन प्रसाद, शिक्षा राज्यमंत्री डा. सुकाल मजुमदार और सचिव राजित पुनरानी ने श्रद्धा निवेदन-2025 को नई गाइडलाइन, एससीबीईटी डिजिटल एटरप्राइजेज पोर्टल, असेसमेंट एजेंसि और अकाडमिग बाडी के लिए नई गाइडलाइन, इंडिया सेमीकंडक्टर इंडीस्ट्रियल वर्कफोर्स स्ट्रेटजी रिपोर्ट, स्किल इम्पेक्ट बोट रिपोर्ट आदि का विमोचन भी किया। भारत में प्रसि के राजदूत थिरे मथाऊ के साथ एसओयू का आदान-प्रदान भी किया। कई अन्य संस्थानों के साथ भी मंत्रालय के एसओयू हस्ताक्षर हुए।



Bharat Mandapam, New Delhi

नई दिल्ली में मंगलवार को भारत विकासनेकट 2025 का रिमोट से शुभारंभ करते केंद्रीय मंत्री जयंत चौधरी व अन्य।



Ministry of Rural Development



ROLE OF NRLM IN ENHANCING SKILL DEVELOPMENT AND EMPLOYMENT OPPORTUNITIES

Posted On: 25 JUL 2025 5:48PM by PIB Delhi

Under Deendayal Antyodaya Yojana - National Rural Livelihoods Mission (DAY-NRLM), this Ministry implements Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY) and Rural Self Employment Training Institutes (RSETI) programmes for skill development of rural poor youth through their employment to eradicate poverty in the country.

Objective of DDU-GKY is to provide placement linked skilling for rural youth, who are poor and provide them with jobs having regular monthly wages at or above the minimum wages. DDU-GKY is a placement-linked skill development programme for rural poor youth in the age group of 15-35 years. It empowers the rural poor youth with employable skills and facilitates their participation in regular labour markets. DDU-GKY guideline provides social inclusion of SC/ST (50%), Women (33%), and PwDs (5%).

RSETI is a Ministry of Rural Development funded training institutions established by the sponsoring Banks in their Districts, to provide training for skill and entrepreneurship development. This Ministry extends financial support for the construction of RSETI building and also bears the cost of training the 'rural poor' candidates. There is also a provision for training at RSETI to any unemployed youth in the age group of 18-50 year having an aptitude to take up self-employment or wage employment.



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In the country, under DDU-GKY a total of 17,50,784 candidates have been trained and a total of 11,48,247 candidates have been placed, and under RSETI, a total of 56,69,265 candidates have been trained and a total of 40,99,578 candidates have been settled since inception till June 2025.

Further, an MoU between the Ministry of Rural Development and the Ministry of Skill Development and Entrepreneurship has been signed in June 2025.

Under DDU-GKY, projects are implemented in project mode by Project Implementing Agencies (PIAs). These PIAs may be any entity, which is:

- i) a Government or semi-government organization at the National and State level,
- ii) NGO registered with NITI Aayog,
- iii) registered under Indian Trust Acts or any State Society Registration Act or any State Cooperative Societies or Multi-State Cooperative Acts or the Companies Act 2003 or the Limited Liability Partnership Act 2008, or Self-Help Groups (SHGs) and its federations namely Cluster Level Federation/Block Level Federation,
- iv) more than three years old entity except Start-ups, etc.

State-wise number of Project Implementing Agencies (PIAs) including in Jharkhand state under DDU-GKY is given at **Annexure-I**.

RSETI is a bank led scheme.

ANNEXURE I

"Role of NRLM in enhancing skill development and employment opportunities"

State / UT	Total No. of PIAs
ANDAMAN & NICOBAR ISLANDS	4
ANDHRA PRADESH	35
ARUNACHAL PRADESH	4
ASSAM	12
BIHAR	7
CHHATTISGARH	10
GUJARAT	15
HARYANA	32



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HIMACHAL PRADESH	18
JAMMU & KASHMIR	10
JHARKHAND	28
KARNATAKA	7
KERALA	24
MADHYA PRADESH	21
MAHARASHTRA	43
MANIPUR	6
MEGHALAYA	7
MIZORAM	3
NAGALAND	5
ODISHA	26
PUDUCHERRY	3
PUNJAB	32
RAJASTHAN	31
SIKKIM	3
TAMIL NADU	36
TELANGANA	28
TRIPURA	4
UTTAR PRADESH	90
UTTARAKHAND	14

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WEST BENGAL	23
Grand Total	466

Source: Kaushal Bharat portal.

This information was given by Minister of State for Rural Development Shri Dr. Chandra Sekhar Pemmasani in a written reply in Rajya Sabha today.

RC/ KSR/AR

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