

# 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
- Nodal Office Update
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IMAGES: Various Skill Development Training Programs at different CSIR Labs

## SKILLING/UPSKILLING TRAINING PROGRAMS BY CSIR

सीएसआईआर द्वारा स्किलिंग/अपस्किलिंग प्रशिक्षण कार्यक्रम

CSIR-NBRI, Lucknow conducted a one-month-long Skill Development Programme on 'Bioinoculant Producer for Agricultural Application' from 11th June to 10th July 2025 under the aegis of CSIR Integrated Skill Initiative Phase-III. A total of 08 students from different institutes participated in the programme.



CSIR-NBRI, Lucknow conducted a one-month-long Skill Development Programme on 'Certificate Course on Plant Molecular Biology Techniques' from 12th June to 11th July 2025 under the aegis of CSIR Integrated Skill Initiative Phase-III. A total of 09 students from different institutes participated in the programme.



CSIR-IICB, Kolkata conducted a Skill Development Program “High-end R&D lab techniques” during 16th - 27th June 2025, where 82 candidates received hands-on training in 11 parallel programs. Some of the areas covered were - GCMS, NMR, LCMS, HPLC, Techniques for 3D structure reconstruction from Cryo-EM dataset of biological samples, Advanced Bioinformatics, Flow Cytometry, RTPCR, Clinical Biochemistry, Microbiology and Pathology Techniques for Biomedical Applications, Optical Microscopy, Molecular Cloning, Protein Expression, and Structural Characterization.



CSIR-NIIST, Thiruvananthapuram conducted a skill training program on "Microscopic Diffraction Techniques for Materials Characterization" as part of the CSIR Skill Initiative during 16<sup>th</sup>- 27<sup>th</sup> June 2025. A total of 12 participants attended the program.



CSIR-NCL, Pune conducted a 2-week Skill Development Program on “Surface Characterisation Techniques” during 16th - 27th June 2025. In this program, 12 candidates had been trained. This SDP program had provided hands-on training on Instruments. This program was designed for: Industry-sponsored candidates, M.Sc. (Chemical & Physical Sciences), M.Tech (Nanotechnology). Dr. Ratnesh Kumar Jha had been the coordinator, and their team had ensured the successful completion of this course. The Nodal Head at CSIR-NCL, Dr. Rajesh Gonnade, had supported this program in all possible ways. Special thanks had been given to our CSR sponsors Envalior and CSIR-SDP, who had provided us with funding.



CSIR-CIMFR, Dhanbad is organizing a 4-week Executive Development Program under the CSIR-Skill Initiative Program (Phase-III) on "Modern Mining Technology: Theory and Practices" during 10th July - 06th Aug 2025 . The programme was attended by 11 Participants from HINDALCO



CSIR-CRRI, New Delhi conducted a 5-day Skill Development Programme on "Pavement Evaluation Techniques and their Applications for Maintenance & Rehabilitation" during 07<sup>th</sup> - 11<sup>th</sup> July 2025. The programme was attended by 30 participants from the Border Roads Organisation and Gujarat PWD



CSIR-CECRI, Karaikudi conducted a one-week Skill Development Training Program on "Cathodic Protection and Pipeline Corrosion" during 07th -11th, July 2024 under the aegis of CSIR Integrated Skill Initiative. This programme aimed to provide the latest knowledge & skills in the area of Cathodic protection systems which prevented corrosion of pipelines, above ground storage tank bottoms, plant piping and many other buried or submerged steel metallic structures. A major concern for operators of these assets was extending their service life. This programme was attended by 51 student participants covering different parts of Tamil Nadu.

The training programme was inaugurated and divisional activities were explained by Dr. Rakesh Chandra Barik, Principal Scientist & Head of Corrosion and Materials Protection Division. This event was coordinated and hosted by Dr. S. M. Rajendran, Chief Scientist and Dr. S. Angappan, Senior Principal Scientist of SDG Skill Co-coordinators of Skill Development Training Programmes. It was technically convened by Mrs. Monika, Senior Scientist and co-coordinated by Dr. S.M. Ganesan, Principal Scientist. Several faculties were present during the inaugural function. Due to preoccupation, our director could not attend the inaugural function.



## NODAL OFFICE UPDATE

### नोडल कार्यालय अपडेट

CSIR-Human Resource Development Centre, nodal office for CSIR Integrated Skill Initiative, desires to offer skilling and upskilling training on Good Laboratory Practices (GLP) in association with the Life Sciences Sector Skill Development Council (LSSSDC) and the National GLP Compliance Monitoring Authority (NGCMA) through CSIR constituent laboratories.

In this regard, a meeting of the Technical Committee (TC) of NGCMA was held on July 11, 2025, at the Department of Science & Technology, New Delhi. On behalf of CSIR-HRDC, Dr. P. Jaisankar made a presentation before the Technical Committee (TC) seeking approval from the TC to initiate Skill Development Courses on GLP across CSIR institutes. In his presentation, Dr. Jaisankar emphasizes the need for skilling and upskilling on role-based GLP programmes.



Mr Anshul Saxena, Vice President, LSSSDC, briefed about the Training Model, Curriculum, Assessment Criteria, and role of each collaborating body on new NOS development for GLP Compliance Skills.

The Technical Committee (TC) of NGCMA was chaired by Dr Madhu Dixit, former Director, CSIR-Central Drug Research Institute (CSIR-CDRI). Dr Ekta Kapoor, Chief Scientist & Head, NCGMA(DST), Dr Vinay Kumar, Sr Principal Scientist, CSIR-Human Resource Development Centre (CSIR-HRDC), Ghaziabad; Mr Goutam Bhattacharya, CEO, LSSSDC; and members from various Government laboratories, Universities & public funded institutions were present at the meeting. The committee took the proposal very positively and expressed their willingness for such skill and upskilling training meeting the need of country.



# UPCOMING EVENTS

## आगामी आयोजन

### Skill Development Program on "Molecular Cloning and Protein Expression"

21st July – 05th Aug 2025

CSIR-Center for Cellular and Molecular Biology shall conduct a hands-on training workshop for sixteen days on "Molecular Cloning and Protein Expression" (RECOMB-IV) targeted to faculty/researchers. Post graduates from Universities/Institutes as well as people working in the industry in the field of Life Sciences, Medical Sciences, Pharmaceutical Science & allied areas. This introductory workshop is intended for beginners to teach and train them about the basics of Molecular Cloning and Protein Expression in basic research for various experiments. It will be supplemented with informative lectures, hands-on training, instrument set-up, data collection and analysis.

Duration	: 16 days
No. of seats	: 10-12
Target Audience	: Faculty/ Researcher from Academia/Industries/ Institutes
Minimum Qualification	: Masters in any branch of Life Science/Allied areas
Dates	: 21 <sup>st</sup> July – 05 <sup>th</sup> Aug 2025
Mode of the Course	: In-house training at CCMB
Mode of selection	: Application form & Statement of Purpose
Course Fee	: 30,000/- INR. (Including Accommodation & GST)

**Training Curriculum for Course:**

- Media preparation, handling bacterial cell culture, reagents preparation and equipment use for cloning.
- Competent cell preparation for recombinant DNA cloning and protein expression.
- Polymerase Chain Reaction (PCR)- Its principle, working and designing of oligos for gene of interest.
- Plasmid vector preparation and restriction digestion of the plasmid by restriction enzymes.
- Ligation and transformation of the ligated recombinant gene.
- Screening for positive clones and confirmation using colony PCR or restriction enzyme digestion and DNA sequencing.
- Transformation of the confirmed clone into expression host bacterial strain.
- Protein expression standardization, optimization of purification strategies for the expressed protein and its analysis by SDS –PAGE.


**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

**Contact details:**

Dr. Archana Bharadwaj Siva  
Nodal Scientist: Skill Development Program  
CSIR-CCMB, Hyderabad, Telangana  
E mail: [sdp@ccmb.res.in](mailto:sdp@ccmb.res.in)




Apply Here!



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

08<sup>th</sup> - 16<sup>th</sup> 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 analysis, microbial contamination detection and prevention.

No. of seats	: 10-15
Minimum Qualification	: Bachelors/Masters in any branch of Life Science/Allied areas
Dates	: 08 <sup>th</sup> - 16 <sup>th</sup> 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	: <a href="http://recruitment.ccmb.res.in/training_programs/sdp/">http://recruitment.ccmb.res.in/training_programs/sdp/</a>

**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 note on during standardization

**Hands-on:**

- Genomic DNA isolation from tail samples and genotyping by standard PCR with gene specific and SSCP markers
- Biochemical markers (Ibmt, ALP, Albumin, SGPT, etc.) to assess the genotype or genetic contamination
- Tissue collection, DNA & RNA isolation, Complimentary 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](mailto:sdp@ccmb.res.in)

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### 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 <sup>th</sup> to 08 <sup>th</sup> 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	: <a href="http://recruitment.ccmb.res.in/training_programs/sdp/">http://recruitment.ccmb.res.in/training_programs/sdp/</a>

**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 (GCCP)
- 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 immuno/fluorescence.
- 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 Coordinator:**  
Mrs. Zareen 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](mailto:sdp@ccmb.res.in)

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सी.एस.आई.आर. - हिमालय जैवसंपदा प्रौद्योगिकी संस्थान, पालमपुर  
CSIR - Institute of Himalayan Bioresearch 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

## Plant Tissue Culture Technician

Course Code: AGR/Q8101, NSQF Level-4

A Plant Tissue Culture (PTC) Technician program, certified by the Agriculture Skill Council of India (ASCI). This program provides technical and practical exposure in the essential skills of PTC to unemployed youth to excel in PTC industries or laboratories.



**Course Start Date: 18<sup>th</sup> August, 2025**

**Course Includes:**

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

**Course coordinator**  
**Dr. Ashish R. Warghat**  
**Nodal Skill Development Programme**  
**Dr. Gireesh Nadda**

**For more details about Institute, kindly scan the QR code**

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

**Hostel accommodation will be provided on sharing and payment basis**

**Course Duration: 390 Hours**  
**50 Days Approx.**

**Last date of receiving application: 31.07.2025**

Course fee : Rs. 10000/-  
No. of Seat : Limited  
Education Qualification : 10+2

**Contact us:**  
Phone: +91-1894-233339 (Ext.) 315: 346  
Fax: +91-1894-230433  
Email: [skillihbt@ihbt.res.in](mailto:skillihbt@ihbt.res.in)  
Website: [www.ihbt.res.in](http://www.ihbt.res.in)






## 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**

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

SCAN HERE FOR PAYMENT-




**COURSE COORDINATORS**  
**Dr. S. Sreekanth**  
**Dr. Abhay Raj**

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

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

Share



Certificates will be provided to all participants

\*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 canceled.  
 \*\*Do not book your tickets until you get a confirmation mail from our end.

CSIR-Indian Institute Of Toxicology Research, CRK Campus, Gheru, Lucknow- 226401




## Workshop on Oxidative and Cellular Stress Assays

**Program Coverage & Benefits:**

- Oxidative Stress, Pro-Oxidants & Antioxidant Enzymes
- Non-Kit Based and Economical Biochemical Assays of Oxidative stress parameters
- Preparation of Buffer
- Hands-on/Demo of Biochemical assay of activity of antioxidant enzymes (SOD, Catalase), Glutathione-S-transferase as well as level of ROS and Lipid peroxidation (LPO)

**DATE: July 23-25, 2025 (3 days)**

- Eligibility- M.Sc. in Life sciences
- Course Fee:- For academia- Rs.3000/- For industry- Rs.6000/-
- Time :- 9:00 AM-5:30 PM
- Venue:- CSIR-IITR, M. G. Marg, Lucknow

**COURSE COORDINATOR**  
**Ms. Mirat ul Fatima**  
**Dr. Ravi Ram Kristipati**

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

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

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**COURSE COORDINATORS**  
**Dr. Nandita Dasgupta**  
**Dr. R. Parthasarathi**

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

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



Share



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

## CSIR INTEGRATED SKILL INITIATIVE



### CSIR-NCL SKILL DEVELOPMENT PROGRAM

# "Polymer Characterisation With GPC Techniques"

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

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

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**FOR WHOM**

- Students
- Academic Researchers
- Industrial Professionals

**HOW TO APPLY**

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

**PRIME INSTRUCTOR & TEAM**

Mrs. Poojy Purohit

**COURSE CONTENT**

GPC- Introduction to GPC Technique, History and development, Pump, Column and detectors, Sample method development, live demonstration of sample run, Analysis and troubleshooting etc.

**COURSE DETAILS**

Duration: 1 Week  
 Dates: 24 July to 29th July 2025  
 No. of Seats: 15  
 Eligibility: M.Sc./M.Pharm./B.E./B.Tech./M.E./M.Tech.

**Course Fees**  
 Students: 1500/-  
 Faculty: 18000/-  
 Industrial Professional: 23000/-  
 (The fees stated include 10% GST)  
 Accommodation: In-house, 2 days with affordable charges.

**ABOUT COURSE**


Gel permeation chromatography (GPC) is a widely employed technique for characterizing high molecular weight polymers. It is an essential and important laboratory technique used for material characterization. GPC is the most powerful method for determining average molecular weights and polydispersity of polymer samples. This course provides a detailed knowledge of theory, sample preparation, data generation, analysis, report preparation, and trouble shooting. GPC gel permeation chromatography. After successful completion of the course the candidate will be able to analyse and interpret the data and will acquire sufficient expertise.

**COURSE COORDINATOR**  
**Dr. Ravi Ram Kristipati**

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

\*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 canceled.  
 \*\*Do not book your tickets until you get a confirmation mail from our end.

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



CSR Sponsor

**CCMB Microscopy Course**

September 8<sup>th</sup> – 12<sup>th</sup>, 2025  
CSIR – Centre for Cellular and Molecular Biology (CCMB), Hyderabad

**What You'll Learn:**

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

**Registration Fee**

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

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

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

**COORDINATORS**  
Dr. Mahesh Nitla  
Mr. Suman Bandari

**ORGANISING COMMITTEE**  
Dr. Santosh Chaulhan  
Dr. P. Chandra Shekar  
Dr. Santosh Kumar  
Dr. Kiran Kumar Bokara  
Dr. Ishwariya Venkatesh  
Dr. Mahesh Nitla

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**“CCMB Microscopy Course (CMC-2025)”**  
8<sup>th</sup> - 12<sup>th</sup> 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<sup>th</sup> - 12<sup>th</sup> 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)  
Rs. 20,000/- (With Accommodation)  
**Application link:** [http://recruitment.ccmb.res.in/training\\_programs/sdp/](http://recruitment.ccmb.res.in/training_programs/sdp/)

**Trainee 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, SIM
- Live Cell Imaging, FRET & FRAP Experiments
- Quantitative Image Analysis and Interpretation.

**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. Nitla Venkata Mahesh**  
Scientist & Facility In-Charge, Advanced Microscopy and Imaging Facility, CSIR-CCMB.  
E-mail: [maheshnitla@ccmb.res.in](mailto:maheshnitla@ccmb.res.in)

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

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

**Course Programs**

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**SKILL DEVELOPMENT PROGRAMME**

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

**Structure elucidation of organic molecules by NMR**

**TOPICS TO BE COVERED**

- Types of 1D and 2D NMR experiments required for structure elucidation
- Case studies of structure elucidation of natural products and synthetic molecules
- Using TOPSPIN software for publication of NMR data

**COURSE BENEFITS**

- Interpretation of 1D and 2D NMR data
- Develop expertise in structure elucidation of natural products and synthetic organic molecules

**ACCOUNT DETAILS**

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

**Course fee:** Rs. 10,000/-

**CSIR-NIIST THIRUVANANTHAPURAM**

**To develop expertise in structure elucidation of organic molecules by interpretation of both 1D and 2D NMR techniques**

**CONTACT**  
PHONE: 0471-2515326  
E-mail: [sdp@niist.res.in](mailto:sdp@niist.res.in)

**No. of Seats:** 10  
**Course coordinator:** Dr. Ravi Shankar Lankalapalli  
**DATE:** 28 July - 01 August 2025 (5 days)

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

सीएसआईआर - 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

**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

Register Here

### FEATURES

- Lectures from the natural products experts
- Hands-on training in Extraction Techniques and TLC method development
- Learning Spectroscopic Characterization Techniques of Phytochemicals
- Exposure to research areas in the institute
- Separation Techniques: Column Chromatography, HPTLC, HPLC, Flash Chromatography
- Certificate on successful completion of the course



- TLC & HPTLC
- HPLC
- Column Chromatography
- Flash Column Chromatography
- Gas Chromatography
- NMR Spectroscopy

**Timings** : 9.30 am - 5.30 pm

**Batch Size** : 25 (Limited seats available)

#### Accommodation:

Shared Accommodation on request will be provided at extra cost subject to availability.

### Registration & Course Fee Details

Students & Ph D Scholars : 5,000+GST  
 Faculty / Academicians : 7,000+GST  
 Industry / R & D Professionals: 10,000+GST



Scan Here to Register!

For more details, Please Contact:

#### Course Co-ordinator

Dr. K. Suresh Babu

Sr. Principal Scientist

suresh.iict@csir.res.in

#### Chair Dept. of NPMC

Dr. Sandip B. Bharate

Sr. Principal Scientist

sbharate.iict@csir.res.in



#### Mr. P. Anil Kumar

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



sdp.iict@csir.res.in

f iictindia



040-27193146



### SKILL DEVELOPMENT PROGRAM

on

## PHYTOCHEMICAL TECHNIQUES

(04<sup>TH</sup> - 08<sup>TH</sup> August 2025)



#### Organized by

Department of Natural Products &

Medicinal Chemistry

CSIR-Indian Institute of Chemical Technology

Hyderabad - 500 007, Telangana



Under

CSIR Integrated Skill Initiative

### About CSIR-IICT

CSIR-Indian Institute of Chemical Technology (CSIR-IICT) is a premier National R&D Institute having Eight Decades partnership with Industry and contribution to the society. The Institute is located in a sprawling campus in the knowledge Innovation hub of the city. CSIR-IICT is equipped with expert pool of scientists in Chemical, Biological, Analytical, Engineering, Environmental Research areas etc.

### Skill Development Programs

The SKILL INDIA Program at CSIR-IICT aims to create opportunities, space & scope for Development of talents in the Indian Youth in the sectors which provide Employment and Entrepreneurial skills. The idea is to raise confidence, improve productivity, provide direction with a balanced growth.

### About Department of NPMC

The Department focuses on new drug discovery via Natural Products Chemistry, Bioinformatics, Medicinal Chemistry, and preclinical pharmacology/regulatory toxicology profiles. Our research encompasses the exploration of biodiversity, emphasizing the identification of natural products of medicinal significance. The department has expertise in isolating the secondary metabolites and fine-tuning the biological activity and/or ADME properties via total synthesis and semi-synthetic modifications. The medicinal chemistry research within the department involves the structure-based drug design with a special focus on Cancer, CNS, Diabetes, and Inflammatory and infectious (TB, Viral) diseases.

### Important Dates

- Start of Online Application Process : 07/07/2025
- Last Date for Submitting Application : 17/07/2025
- Communication of Selected Candidates : 22/07/2025

### Training Topics

- ❖ Extraction, Isolation, and Characterization Techniques
- ❖ Hands-on Training on Column Chromatography
- ❖ Analytical tools for structural characterization of Phytochemicals
- ❖ Molecular Modelling and Molecular Docking
- ❖ Cell-based Bioassays for Phytochemical Screening

### Eligibility

- ❖ Industry Partners/ Budding Entrepreneurs/ Academicians / Faculty
- ❖ PhD Scholars / Students with M.Sc in Chemistry / M. Pharm in Pharmacognosy / Pharmaceutical / Pharmacology

### Program Content

Phytochemicals have been an invaluable source of bioactive compounds for centuries, greatly enriching the field of medicine, cosmetics, biotechnology, and agriculture. Advances in the isolation, structural elucidation, and bioactivity screening of molecules have enabled the rapid identification of new leads from nature for the treatment of various ailments. Moreover, it connects traditional knowledge with current sciences to offer a sustainable solution to global health challenges.

The Skill Development Program on "Phytochemical Techniques" offers emphasis on the importance of interdisciplinary approaches in natural product research and highlights the need for biodiversity conservation.

Despite these advances, the exploration of natural products remains fragmented, particularly in rich biodiversity ecosystems such as marine and tropical forest domains. This Program aims to bring together some of the leading researchers and industry professionals to explore the vast potential of natural products in addressing global challenges.

### 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
<b>Diffraction &amp; Microscopy Techniques for Material Characterization</b> Duration : 10 Days    Start Date : June 2025 Fees : Rs. 7500        Mode : Offline	<b>Remote Sensing and GIS Applications in Environmental Impact Assessment and Management</b> Duration : 5 days        Start Date : August - September 2025 Fees : Rs. 1500 (Students)    Mode : Online Rs. 5000 (Sponsored)	<b>Synthetic Organic Chemistry - Hands-on Training on Fundamentals and Specialized Reactions</b> Duration : 2 Months    Start Date : October - November 2025 Fees : Rs. 15,300/-        Mode : Offline
<b>Spectroscopic Techniques (FT-IR, UV Vis &amp; Fluorescence Spectroscopy) for Researchers</b> Duration : 2 days        Start Date : May 2025 Fees : As part of SSR of CRG Project    Mode : Offline	<b>Printed Electronics Based Advanced Device Fabrication</b> Duration : 2 days        Start Date : August 2025 Fees : Rs. 1800 (students)    Mode : Offline Rs. 3000 (Industry)	<b>Catalysing Careers: Opportunities in Chemical, Pharmaceutical, and Life Sciences</b> Duration : 1 Day        Start Date : October 2025 Fees : Rs. 1000            Mode : Online
<b>Research-linked Innovative Learning Techniques for High School and Higher Secondary School Students from Rural Villages</b> Duration : 3 Months    Start Date : May 2025 - March 2026 Fees : As part of CSR activities of Mode : Offline MC Dean Systems Private India Limited 25 No's each (Applied for Funds)	<b>Workshop on Atomic Absorption Spectrophotometer (AAS)</b> Duration : 3 days        Start Date : August or September 2025 Fees : Rs. 1000            Mode : Offline	<b>Mechanical Testing and Thermal Characterisation</b> Duration : 3 days        Start Date : November 2025 Fees : Rs. 3000            Mode : Offline
<b>Career Guidance and Soft-Skill Training Program for High School &amp; Higher Secondary School Students from Rural Villages</b> Duration : 1 Day        Start Date : May 2025 - March 2026 Fees : As part of CSR activities of Mode : Offline MC Dean Systems Private India Limited (Applied for Funds)	<b>Value Addition of Fruits and Vegetables</b> Duration : 3 days        Start Date : August 2025 Fees : Students: Rs. 5,000    Mode : Offline Faculty - Rs. 7,500, Industry- Rs. 10,000	<b>Food Packaging</b> Duration : 10 Days        Start Date : November 2025 Fees : 10,000/- +GST        Mode : Offline
<b>Advanced Metal Casting and Manufacturing Technology</b> Duration : 3 days        Start Date : June 2025 Fees : Rs. 3000            Mode : Offline	<b>Techniques of Phytochemical Profiling &amp; Characterization</b> Duration : 1 Month        Start Date : August - September 2025 Fees : Rs. 5000            Mode : Offline	<b>Training Program On Comprehensive Herbal Drug Development</b> Duration : 5 Days        Start Date : November 2025 Fees : Students: Rs. 5,000    Mode : Offline Faculty - Rs. 7,500, Industry- Rs. 10,000
<b>Course on Circular Economy and Sustainable Technologies</b> Duration : 2 days        Start Date : June 2025 (1 <sup>st</sup> Session) Fees : Rs. 5000            Mode : November 2025 (2 <sup>nd</sup> Session) Offline	<b>Characterization of Plant Based Proteins for Sustainable Food Formulation</b> Duration : 5 Days        Start Date : August / September 2025 Fees : Rs. 3000            Mode : Offline	<b>Hands on Training In Immunology Techniques and qPCR</b> Duration : 5 Days        Start Date : November 2025 Fees : Rs. 3000/-            Mode : Offline
<b>Structure Elucidation of Organic Molecules by NMR</b> Duration : 5 days        Start Date : June 2025 Fees : Rs. 10,000            Mode : Offline	<b>Surface Engineering and Corrosion</b> Duration : 3 days        Start Date : September 2025 Fees : Rs. 3000            Mode : Offline	<b>Application of process engineering in Sustainable Energy &amp; Environmental Management</b> Duration : 1 Day        Start Date : November 2025 Fees : Student/Researcher Mode : Offline Faculty- Rs. 2,000/-, Industry person- Rs. 3,000/-
<b>Introduction to Industrial Adhesives</b> Duration : 2 days        Start Date : July 2025 Fees : Rs. 3000            Mode : Offline	<b>Magnetic Characterisation Using PPMS</b> Duration : 2 days        Start Date : September 2025 Fees : Rs. 1500 (students)    Mode : Offline Rs. 3000 (Industry)	<b>Environmental Microbiology Techniques and Biosafety Practices</b> Duration : 2 days        Start Date : December 2025 Fees : Rs. 1500            Mode : Offline
<b>Hands-On Training in Bacterial Outer Membrane Vesicles (OMVs) Isolation &amp; Basic Molecular Biology Techniques</b> Duration : 5 days        Start Date : July 2025 Fees : Rs. 2500            Mode : Offline	<b>Advanced Skill Training on Spectroscopic Techniques (FT-IR, UV-Vis &amp; Fluorescence Spectroscopy)</b> Duration : 10 Days        Start Date : Sep 2025 & Dec 2025 Fees : Rs. 3000            Mode : Offline	<b>Basic Training on Spectroscopic Techniques (FT-IR, UV Vis &amp; Fluorescence Spectroscopy)</b> Duration : 10 days        Start Date : Jan - Feb 2026 Fees : Rs. 3000            Mode : Offline
<b>Phytochemical Analysis and Characterization Using Chromatographic Techniques</b> Duration : 4 days        Start Date : July 2025 Fees : Students: Rs. 3,500    Mode : Offline Faculty - Rs. 5,000, Industry- Rs. 6000	<b>Nutritional Analysis (Includes Proximate, HPLC, GC)</b> Duration : 1 Month        Start Date : September 2025 Fees : Rs. 10,000/-        Mode : Offline	<b>Training Programme on Analysis of Fats and Oils</b> Duration : 3 Days        Start Date : January 2026 Fees : Students: Rs. 5,000    Mode : Offline Faculty - Rs. 7,500, Industry- 10,000
<b>Algal Lipidomics: Scaleup and FAME Profile by GC-MS</b> Duration : 5 days        Start Date : 27 - 31 August 2025 Fees : Rs. 5000 (Academia)    Mode : Offline Rs. 7500 (Industry)	<b>Training Program on Baking Technology</b> Duration : 3 Days        Start Date : September 2025 Fees : Rs. 3000            Mode : Offline	<b>Construction of Genetically Engineered Microorganism</b> Duration : 5 Days        Start Date : January 2026 Fees : Rs. 10,000 & Rs. 15,000    Mode : Offline for Sponsored Candidates
<b>Intellectual Property Rights, Patents and Practice</b> Duration : 3 Months    Start Date : August 2025 Fees : Rs. 3000/-            Mode : Offline (Only for students of CSIR NIIST)	<b>Value Addition of Spices</b> Duration : 3 Days        Start Date : October 2025 Fees : Students: Rs. 5,000    Mode : Offline Faculty - Rs. 7,500, Industry- Rs. 10,000	<b>Sol Gel Synthesis and Coatings</b> 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](mailto: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](mailto: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
FSSTP-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. Vijayan <a href="mailto:nvijayan@nplindia.res.in">nvijayan@nplindia.res.in</a> 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 <a href="mailto:NidhaSingh@nplindia@Csir.Res.I">NidhaSingh@nplindia@Csir.Res.I</a> 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 <a href="mailto:sudesh.yadav@nplindia.res.in">sudesh.yadav@nplindia.res.in</a> Ph: 01145609362
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. <a href="mailto:hkarthik.nplindia@csir.res.in">hkarthik.nplindia@csir.res.in</a>
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 <a href="mailto:skjaiswal@nplindia.org">skjaiswal@nplindia.org</a> 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 <a href="mailto:aggarwalsg.nplindia@csir.res.in">aggarwalsg.nplindia@csir.res.in</a>
STP-7	Training Program on Plastic Processing, Waste Management and Recycling	8-10 September, 2025, 3 days		Dr. Parveen Saini <a href="mailto:psaini@nplindia.org">psaini@nplindia.org</a> 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 <a href="mailto:kumar@nplindia.res.in">kumar@nplindia.res.in</a> 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 <a href="mailto:satish.nplindia@csir.res.in">satish.nplindia@csir.res.in</a>
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 <a href="mailto:shivagan@nplindia.res.in">shivagan@nplindia.res.in</a>


STP-11	Awareness Program on E-waste Management and Recycling	17-18 November, 2025, 2 days		Dr. Parveen Saini <a href="mailto:pksaini@nplindia.org">pksaini@nplindia.org</a> 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 standards0	V K Jaiswal <a href="mailto:jaiswalvk@nplindia.res.in">jaiswalvk@nplindia.res.in</a>
STP-13	Acoustic and Vibration Metrology	26 November, 2025, 1 day	Acoustic and Vibration Metrology, Uncertainty evaluation.	Dr Naveen Garg <a href="mailto:ngarg.nplindia@csir.res.in">ngarg.nplindia@csir.res.in</a>
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 <a href="mailto:satish.nplindia@csir.res.in">satish.nplindia@csir.res.in</a>
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 <a href="mailto:arorap@nplindia.res.in">arorap@nplindia.res.in</a>
STP-16	Symposium Battery Testing and Calibration	22-23 January, 2026, 2 days	Battery Testing and Calibration: Present and Future	Dr. Satish <a href="mailto:satish.nplindia@csir.res.in">satish.nplindia@csir.res.in</a>
STP-17	Training Program on Advance Materials Characterization Techniques	11-13 February, 2026, 3 days		Dr. Parveen Saini <a href="mailto:pksaini@nplindia.org">pksaini@nplindia.org</a> 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 <a href="mailto:jewariya.mukesh@nplindia.res.in">jewariya.mukesh@nplindia.res.in</a>
STP-19	Workshop on terahertz technologies	4-6 March, 2026, 3 days	Basics of terahertz technologies, spectroscopy and Imaging	Dr. Mukesh Jewariya <a href="mailto:jewariya.mukesh@nplindia.res.in">jewariya.mukesh@nplindia.res.in</a>
STP-20	Scientific Communications	12-13 March, 2026, 2 days	Scientific Writing, Ethics, Plagiarism etc.	Dr. Mukesh Jewariya <a href="mailto:jewariya.mukesh@nplindia.res.in">jewariya.mukesh@nplindia.res.in</a>

## 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 <a href="mailto:singhnidhi@nplindia.org">singhnidhi@nplindia.org</a>


# NEWS CLIPPINGS

## न्यूज़ क्लिपिंग



**Government of India**  
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**International Year of Cooperatives 2025**  
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Others

### Rozgar Mela Jobs, Skills, Growth

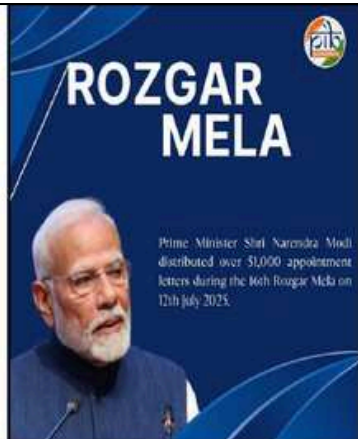
Posted On: 12 JUL 2025 8:25PM

#### Key Takeaways

- The first Rozgar Mela was held on **October 22, 2022**, with over 75,000 appointment letters distributed.
- So far, **16 editions of the Rozgar Mela** have been organised across the country.
- More than 10 lakh recruitment letters** have been issued so far through the Rozgar Melas across the country.
- The latest 16th Rozgar Mela was held on July 12, 2025, at 47 locations across India.
- The highest single-day distribution was over 1 lakh appointment letters in February 2024.

**Introduction**


Prime Minister Shri Narendra Modi distributed over 51,000 appointment letters to newly appointed youth in government departments and organisations during the 16th Rozgar Mela held on 12th July 2025. The Rozgar Mela took place at 47 locations across the country, helping young people join various Central Government Ministries and Departments. The new recruits have joined the Ministry of Railways, Ministry of Home Affairs, Department of Posts, Ministry of Health and Family Welfare, Department of Financial Services, Ministry of Labour and Employment, and many other departments. This initiative is part of the government's ongoing efforts to create more job opportunities and strengthen the workforce across the nation.



## ROZGAR MELA

Prime Minister Shri Narendra Modi distributed over 51,000 appointment letters during the 16th Rozgar Mela on 12th July 2025.

To boost employment initiatives in the country, the National Skill Development Corporation (NSDC), under the Ministry of Skill Development & Entrepreneurship (MSDE), Government of India, has been organizing Rozgar Melas nationwide. These events aim to connect unemployed youth with suitable job opportunities in the private sector.



**Rozgar Mela: At a Glance**

A Rozgar Mela is a half-day event where employers and job seekers gather to apply for and interview for job positions. This employment strategy aims to facilitate quick connections between job seekers and employers. To organize these Rozgar Melas, the NSDC collaborates with Sector Skill Councils (SSCs) and

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Pradhan Mantri Kaushal Kendras (PMKKs) to source private companies that participate in the event. The Rozgar Melas primarily target youth aged 18 to 35, accommodating a range of academic qualifications, including those who have completed 8th, 10th, and 12th grades, as well as ITI, Diploma, and Graduate degrees. This also includes trained and certified candidates who meet the National Skills Qualifications Framework standards.

Job seekers are mobilized and informed about the Rozgar Melas through various channels, such as print advertisements, bulk SMS, social media, and workshops at colleges and universities in and around the event's district.

In addition to job placements, Rozgar Melas feature several complementary activities, including:

- Counseling sessions for job seekers and their parents
- Kaushal Melas for youth registration in new skill development training (PMKK/PMKVY)
- Mudra Loan Facilitation Counters and skill exhibitions where SSCs showcase their training models, equipment, and job roles.

Beyond NSDC-organized Rozgar Melas, affiliated agencies like Sector Skill Councils, Pradhan Mantri Kaushal Kendras, and PMKVY training partners also conduct Rozgar Melas of various scales across the country for youth aged 18 to 35.

**Goals of Rozgar Mela**

- Empowering youth
- Providing opportunities for youth to contribute to national development
- Accelerating connections between job seekers and employers
- Reflecting the Prime Minister's vision of equitable development across the country.

**Contributions of Rozgar Mela**

- Rozgar Mela offers job seekers insights into potential employers and available employment opportunities, including entrepreneurship.
- It provides a platform for organizations to meet potential employees in an informal setting.
- The event connects skilled candidates directly with recruiters, HR managers, admission officers, and training providers.

**Rozgar Mela: Year-by-Year Highlights**

- 1st Edition of National Rozgar Mela | October 22, 2022

During this inaugural event, appointment letters were handed over to more than 75,000 new recruits.



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- 2nd Edition of National Rozgar Mela | November 22, 2022  
In the second edition, the Prime Minister released approximately 71,000 appointment letters to newly inducted recruits in over 45 cities through video conferencing.
- 3rd Edition of National Rozgar Mela | January 20, 2023  
In this edition, 71,000 appointment letters were distributed by the Prime Minister to new recruits in various Government departments and organizations via video conferencing.
- 4th Edition of National Rozgar Mela | April 13, 2023  
Held in Thiruvananthapuram, this edition saw the distribution of about 71,000 appointment letters for various posts across 45 departments at 45 locations nationwide.



- 5th Edition of National Rozgar Mela | May 16, 2023  
The fifth edition took place in Mumbai, Pune, and Nanded, where over 71,000 appointment letters were issued.
- 6th Edition of National Rozgar Mela | June 13, 2023  
During the sixth Rozgar Mela held in Guwahati, approximately 70,000 appointment letters were distributed.



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- 7th Edition of National Rozgar Mela | July 22, 2023  
In the seventh session of Rozgar Mela, Prime Minister Narendra Modi distributed over 70,000 appointment letters via video conferencing from Goa, connecting 44 locations across the country.
- 8th Edition of National Rozgar Mela | August 28, 2023  
The Prime Minister distributed more than 51,000 appointment letters through video conferencing at the eighth edition of Rozgar Mela, which took place at 45 locations nationwide. This event facilitated recruitment for various Central Armed Police Forces (CAPFs), including the Central Reserve Police Force (CRPF), Border Security Force (BSF), Shashtra Seema Bal (SSB), Assam Rifles, Central Industrial Security Force (CISF), Indo-Tibetan Border Police (ITBP), and Narcotics Control Bureau (NCB), as well as Delhi Police. The new recruits were referred to as 'Amrit Rakshak' of Amrit Kaal by the Prime Minister.
- 9th Edition of National Rozgar Mela | September 26, 2023  
In the ninth edition, Prime Minister Narendra Modi addressed participants via video conferencing and distributed around 51,000 appointment letters to newly inducted recruits from across the country. This event occurred at 46 locations nationwide.
- 10th Edition of National Rozgar Mela | October 28, 2023  
During the tenth National Rozgar Mela, the Prime Minister distributed more than 51,000 appointment letters via videoconferencing to recruits in various Government departments and organizations. New appointees are also allowed to enhance their skills through Karmayogi Prarambh, an online module available on the iGOT Karmayogi portal, which offers over 400 e-learning courses in a flexible, "anywhere, any device" format.
- 11th Edition of National Rozgar Mela | November 30, 2023  
The Prime Minister, Narendra Modi, addressed the Rozgar Mela and distributed approximately 51,000 appointment letters to newly inducted recruits via video conferencing. The recruits who were selected joined various Government Ministries and Departments, including the Central Customs and Excise Department, Central Goods and Services Tax Department, Central Industrial Security Force, Armed Forces, ITBP, Kendriya Vidyalaya Sangathan, Indian Postal Department, Bank of India, and Health Departments, among others.



- 12th Edition of National Rozgar Mela | February 12, 2024  
The Prime Minister, Shri Narendra Modi distributed over 1 lakh appointment letters via video conferencing. During the event, he also laid the foundation stone for Phase I of the Integrated Complex "Karmayogi Bhavan" in New Delhi.

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- 13th Edition of National Rozgar Mela | October 29, 2024  
The Prime Minister, Shri Narendra Modi, addressed the Rozgar Mela and distributed over 51,000 appointment letters to newly appointed youth in Government departments and organizations via video conferencing. He congratulated the new recruits and extended his best wishes to them.
- 14th edition of the Rozgar Mela | December 23, 2024  
The 14th Rozgar Mela was held on December 23, 2024, across 45 locations in India. Prime Minister Shri Narendra Modi addressed the event virtually and distributed over 71,000 appointment letters to youth who joined various government departments.
- 15th edition of the Rozgar Mela | April 26, 2025  
On April 26, 2025, Prime Minister Shri Narendra Modi addressed the Rozgar Mela via videoconferencing and distributed over 51,000 appointment letters to youth joining various government departments and organizations.



**Conclusion**  
The Rozgar Mela is a key government initiative to boost employment for youth across India. It connects job seekers directly with employers, helping address unemployment. Thousands have received appointment letters through these Melas, showing the government's focus on job creation. Training and skill development programs also prepare new recruits for their roles. The Rozgar Mela is shaping a skilled workforce and supporting India's growth.

## स्किल इंडिया कार्यक्रम में 10 वर्षों में 6 करोड़ युवाओं ने ली रोजगार की ट्रेनिंग

**सीमा शर्मा**

**नई दिल्ली।** बीते दस वर्षों में 'स्किल इंडिया मिशन' में छह करोड़ से अधिक युवाओं ने बाजार में मांग के आधार पर रोजगार की ट्रेनिंग ली है। जबकि प्रधानमंत्री कौशल विकास योजना (पीएमकेवीवाई) में 1.64 करोड़ युवाओं ने मैनुफैक्चरिंग, कंस्ट्रक्शन, हेल्थकेयर, आईटी, रिटेल, इलेक्ट्रॉनिक्स समेत 38 क्षेत्रों में नए जमाने की कौशल में दक्षता हासिल की है, जिसमें 45 फीसदी महिलाएँ हैं। इसमें से 34 फीसदी ओबीसी, 13 फीसदी एससी और पांच फीसदी एसटी वर्ग की बेटियाँ शामिल हैं। महिलाओं में आर्टिफिशियल इंटेलिजेंस (एआई), ड्रोन

**कौशल विकास मंत्रालय के आज 10 साल पूरे, लड़कियों ने एआई ड्रोन टेक्नोलॉजी में दिखाई रुचि**

टेक्नोलॉजी, रोबोटिक्स, इंटरनेट ऑफ थिंग्स (एलओटी) व मेकाट्रॉनिक्स सबसे अधिक पसंदीदा क्षेत्र रहा। कौशल विकास मंत्री जयंत चौधरी ने कहा, प्रधानमंत्री नरेंद्र मोदी के विजन में 15 जुलाई 2015 को 'स्किल इंडिया मिशन' का गठन किया था। इसका मकसद युवाओं को पढ़ाई और नौकरी के साथ उभरते क्षेत्रों और बदलती मांग के आधार पर स्किल, रीस्किल, और अपस्किल में दक्ष करना था। प्रधानमंत्री का मानना है कि भारत की सबसे शक्तिशाली संपत्ति उसके युवा हैं। चौधरी के मुताबिक, पीएमकेवीवाई में सबसे

**हाशिये पर पड़े समुदायों को मिला नया जीवन :** केंद्रीय मंत्री ने कहा कि समुदाय-आधारित कौशल केंद्रों ने ग्रामों, आदिवासी और हाशिये पर पड़ी आबादी, विशेषकर महिलाओं, अनुसूचित जाति (एसटी), अनुसूचित जनजातियों (एसटी) और अल्पसंख्यकों के घर तक व्यावसायिक प्रशिक्षण पहुंचाया। वर्ष 2018 और 2025 के बीच, 31,26,683 लोगों को सिलार्ड, कढ़ाई, हस्तशिल्प, खाद्य प्रसंस्करण व स्वास्थ्य सेवा सहायता जैसे व्यवसायों में प्रशिक्षण मिला। अधिक युवाओं ने प्रशिक्षण प्राप्त किया है। इसमें जम्मू-कश्मीर में लुन हो चुकी नामदा क्राफ्ट को फिर से जीवंत किया गया है। करीब 2,223 महिलाओं को प्रशिक्षण के साथ दोबारा पहचान शुरू करने संग आत्मविश्वास भी मिला है।

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- [MSDE and DARE host "Skilling: Future Ready" workshop at Kaushal Bhawan, New Delhi ahead of 5th National Conference of Chief Secretaries](#)
- [Assam Rifles, BVG India Ltd Ink MoU To Boost Skill Development And Livelihood In Northeast](#)
- [Assam Rifles, BVG India Ltd Ink MoU To Boost Skill Development And Livelihood In Northeast](#)
- [Free skill training for women from July 7 by Union Bank's RSETI](#)
- [Craigt Revolutionizes 21st-Century Skills Development in Schools with Data-Driven Learning](#)
- [Samsung Semiconductor India Research launches 'Samsung Skill Development Center' at the Government Polytechnic KGF](#)
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- [Dr. Samrat Ray: Championing Skill Development for Economic and Social Empowerment](#)
- [Only 47% of schools offer skill-based courses: Government study](#)
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