

CSIR SKILL BULLETIN

(A FORTNIGHTLY E-PUBLICATION)

सीएसआईआर कौशल पत्रक

(पाक्षिक ई-प्रकाशन)

Editorial Team

- Dr Vinay Kumar
- Ms Neeti Sagar

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IMAGES: Various Skill Development Training Programs at different CSIR Labs.

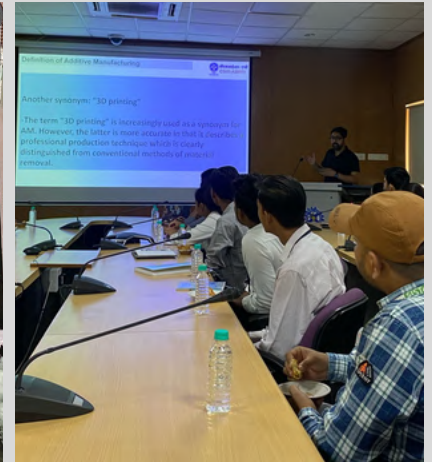
SKILLING/UPSKILLING TRAINING PROGRAMS BY CSIR

सीएसआईआर द्वारा स्किलिंग/अपस्किलिंग प्रशिक्षण कार्यक्रम

CSIR-CGCRI, Kolkata conducted a two-day Skill Development Programme on "Terracotta Processing" at Duttapukur, North 24 Parganas, West Bengal from 8th - 9th April 2025. In this programme, different aspects of terracotta processing such as raw material processing, plaster of Paris (POP) mould making, shaping of terracotta articles by slip casting and jigger-jolly methods were elaborately discussed and demonstrated. Hand-on training was provided on terracotta jewellery making using plaster of Paris mould. 39 artisans and housewives actively participated in this skill development programme.



CSIR-AMPRI, Bhopal conducted a visit cum workshop for the students of SISTec Bhopal on 16TH April 2025. The expert lecture was delivered by Dr. Abhishek Pandey on "Additive Manufacturing". 40 students and faculty attended the event. They also visited the ACCM Division, Additive Manufacturing Facility, CARS& GM and JIGYASA Centre.



CSIR-CRRI, New Delhi, conducted a customized Skill Development program on "Design, Construction and Quality Control in Flexible & Rigid Pavements" for Madhya Pradesh PWD Engineers from 21ST- 23RD April 2025. Total 40 Engineers are participated from MP PWD.



CSIR-CGCRI, Khurja Centre, conducted a training on Soft Skills and Technical Skills Upgradation on Whiteware Manufacturing and Glaze Application from 21st - 24th April 2025. Quality testing and Quality based selection of raw materials, Functions of raw materials, the composition of body and glazes, Process control parameters for efficient manufacturing, rejection control, and quality control from Slip house to finished products. Total of 28 students and local entrepreneurs participated.



CSIR-CRRI, New Delhi, conducted a training programme on “Applications of Geo synthetics for Road from 21ST- 25TH April 2025 at VNR VJIEET Hyderabad, Telangana. Total 123 Trainees attended the program. This program was sponsored by Ministry of Textiles , NTTM, Government of India.



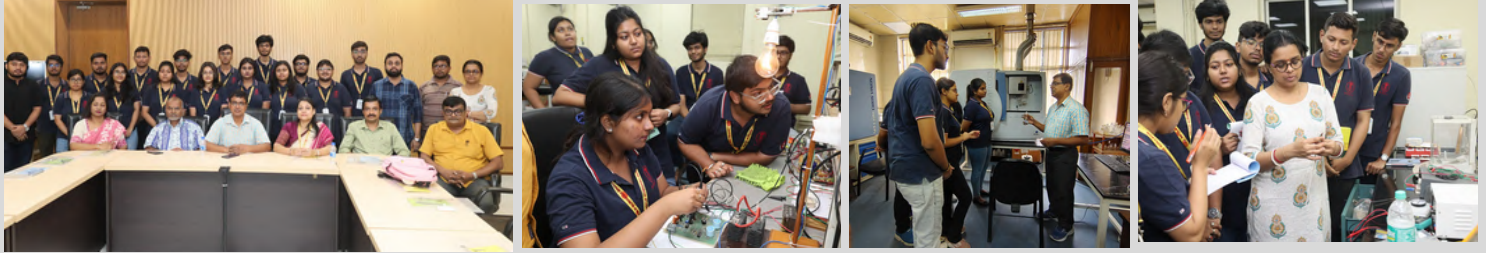
CSIR-CECRI, Karaikudi conducted a one-week Skill Development Training Program on “Surface coatings for value added products Viz. Decorative and functional applications” from 21ST- 25TH April , 2025 under the aegis of CSIR -Integrated Skill Initiative. This programme aimed to provide the latest knowledge and skills of the Surface coatings. Surface coatings include paints, drying oils and varnishes, synthetic clear coatings, and other products whose primary function is to protect the surface and gives better finish to give aesthetic look of an object in the environment. This programme was attended by 45 participants by covering different parts of Tamil Nadu, India. The training programme was inaugurated and divisional activities related lecture given by Dr. Subhendu Kumar Panda, Principal Scientist of Electroplating and Electrometallurgy Division. This event was morally coordinated and hosted by Dr. S.M. Rajendran, Chief Scientist and Head of Skill Development Group & Nodal Officer for CSIR-CECRI’s ISI.



CSIR-CGCRI, Kolkata conducted a three-day skill training programme on “Instrumental Methods for Chemical Characterization of Glass & Ceramic Materials & Testing & Calibration Techniques Related to Temperature Measurement and Control” from 23rd - 25th April 2025 in the Multiscale Microstructure and Mechanics of Materials (4M) Division. 16 engineering undergraduate students have participated in the training programme. The students were given hands on training on instrumental methods of chemical characterization routinely followed in the laboratory for chemical analysis of glass, ceramic and allied materials followed by training on testing and calibration techniques related to temperature measurement and control and, basic instrumentation measurements and techniques.



CSIR-CGCRI, Kolkata conducted a three-days skill training programme on “Instrumental Methods for Chemical Characterization of Glass & Ceramic Materials & Testing & Calibration Techniques Related to Temperature Measurement and Control” in the Multiscale Microstructure and Mechanics of Materials (4M) Division from 28th - 30th April 2025. 15 engineering undergraduate students and 3 faculty members have participated in the training programme. The trainees were given hands on training on instrumental methods of chemical characterization routinely followed in the laboratory for chemical analysis of glass, ceramic and allied materials followed by training on testing and calibration techniques related to temperature measurement and control and basic instrumentation measurements and techniques.



CSIR-CSMCRI, Bhavnagar conducted a CSIR Skill Initiative Training Program on "Seaweed Cultivation and Processing Technology," launched with the expectation of securing funding from 28th - 30th April 2025. A diverse group of 20 participants from across the India attended the program to enhance their expertise in the field.



CSIR CBRI, Roorkee in collaboration with HPSDMA conducted a 2 days state level workshop in Dharmshala, H.P. “Repair and Retrofitting of Buildings” as a part of CSIR ISI Phase III during 30TH April -1ST May 2025. The program was attended by 45 number of Engineers and practitioners of H.P. The chief guest of the program was Dr. D C Rana, IAS, Director cum special secretary, HPSDMA. In the event DC along with ADM Kangra also attended the event.



CSIR-CCMB, Hyderabad conducted a training programme on “Wildlife DNA forensics” (WF-14) during 17th - 21st March 2025. 11 participants, including Wildlife Biologists, Scientists, and PhD scholars working on wildlife. It is a field that applies genetic techniques to investigate crimes against wildlife.



UPCOMING EVENTS

आगामी आयोजन






CSIR Integrated Skill Initiative Program

Certificate course on Skill Development in Care, Management of Laboratory Animals & Experimental Techniques

Duration: 03 Weeks (15th May to 5th June 2025)
Eligibility: 10+2 onwards ((Science stream will be preferred))

Salient features of the training

- Small batch size for effective learning
- Balance of theory and practical classes
- Exposure to diverse experimental techniques, instrumentation, animal breeding techniques, regulatory guidelines, GLP etc.
- Demonstration of state-of-the-art in-vivo research instruments like IVIS, Micro CT, automatic hematology and serum biochemistry analyzers, pathology etc.
- Animal genotyping techniques.
- Animal health monitoring techniques and SOPs.
- General management of animal facility, recordkeeping, archiving etc.
- Hands on training/demonstrations in the area of animal breeding, experimental techniques, instrumentation and data interpretation.
- Comprehensive coverage on all aspects of animal breeding and experimentation.

Course Coordinator: Dr. Rajdeep Guha
E-mail: rajdeep.guha@cdri.res.in




Course Fee: 10,000/-

For more details, kindly visit the link:
<https://www.cdri.res.in/skill-development-program>
 or Scan QR code

Last date for registration
5th May, 2025



Contact:
 Dr. Anil Nilkanth Gaikwad
 Coordinator, Skill Development Programme
 CSIR-Central Drug Research Institute, Sec-10, Jankipuram Extension, Sitapur Road
 Lucknow 226031 (Uttar Pradesh)






CSIR Integrated Skill Initiative Program

Certificate course on Pathological Tools & Techniques for Biomedical Applications

Duration: (04 Weeks) 13th May to 09th June 2025
Eligibility: 10+,12+, Science Background, B.Pharm, B.Sc., B.V.Sc.

Salient features of the training

- Blood collection and necropsy of laboratory animals
- Clinical Pathology-Reception & labelling of samples, analysis, record keeping, cleaning
- Preparation of various stains & reagents
- Stool Examination-Routine & Microscopic, Occult blood test
- Urine Examination-Routine & Microscopic, Preservative and fixation of various samples
- Haematology analysis.
- Blood smear preparation
- Staining of blood smear and Differential Leucocyte Count (DLC) analysis
- Biopsy/Cytology-Collection of material, preparation of stain and staining by Leishman/Giemsa
- Diagnosis & Interpretation
- Demonstration of the process of Histopathology, slide preparation and staining
- Organization and management of laboratory
- Quality control

Last Date for Registration
01st May, 2025

Course Fee: 10,000/-

Course Coordinator: Dr. Madhav N Mungle
E-mail: madhav.mungle@cdri.res.in

For more details, kindly visit the link:
<https://www.cdri.res.in/skill-development-program>
 or Scan QR code





Contact:
 Dr. Anil Nilkanth Gaikwad
 Coordinator, Skill Development Programme
 CSIR-Central Drug Research Institute, Sec-10, Jankipuram Extension, Sitapur Road
 Lucknow 226031 (Uttar Pradesh)
 E-mail: sdp@cdri.res.in




WORKSHOP ON PRESENTATION SKILLS



Course fee -
 For Academic -Rs.1000/-
 For Industry -Rs.2000/-

Eligibility- Bachelor's degree in any stream

May 23, 2025

Course Coordinator
Dr. Ravi Ram Kristipati

Venue
CSIR - IITR
M.G. Marg, LUCKNOW

Certificates will be provided to all participants

LEARN WITH US :-

- Insights on preparing an impactful presentation
- Prepare/format slides using PowerPoint
- Structure presentation by preparing mind maps
- Verbal and non-verbal skills for effective presentation
- Engage the audience and handle their questions.
- Ways to overcome fear and anxiety associated with presentations.

scan /click here to register



Share



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

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




CSIR-NCL Integrative Skill Initiative Skill Development Course in Synthetic Organic Chemistry

Course Title: Synthetic Organic Chemistry

About the Course: Organic synthesis is the toolbox for building molecules impacting every industry, such as pharmaceutical, food, agriculture, polymers and materials, dye, perfumes and cosmetics etc. Synthesizing known molecules via sustainable chemistry as well as new molecules with improved properties greatly impacting the modern society and economy. Practical knowledge on organic synthesis and handling of state of the art facilities is the pre-requisite to contribute to this field. This course provides a hands-on experience of how the planning, designing, execution, and analysis are done in sync to achieve synthetic goals. After completing the course, the candidate will be able to plan and execute the most commonly practiced and advanced organic transformations in lab scale under a safe environment independently.

Course Content:
 Students will be working in some of the established groups for hands-on training for various organic transformation and execution of multistep synthesis. The training will carried out following proper planning and safety requirement, setting up the reactions under direct guidance, reaction monitoring, product isolation and purification, and analysis of product(s) formed. The experiments and its analysis will be documented for reference.
 As a prerequisite, in the first two weeks, the students will under go hands-on training for laboratory safety, safe practices with laboratory chemicals, literature data mining, analytical data processing and proper record keeping.

Course Instructors: Scientist's of Organic Chemistry Division, CSIR NCL
Course Coordinator: Dr. Ulpal Das

Course Code: SDP_NCL34_2026
Commencement Date: 15/05/2025
End Date: 29/08/2025
Registration Deadline Date: 29/04/2025
Selection Intimation Date: 01/05/2025
Duration: 16 weeks
Seat Available: 20
Eligibility: M. Sc (Org. Chem or Med. Chem.) (Completed)
How to Apply
 Apply Online at the following website
<http://ncisdp.ncl.res.in/Default.aspx>
Mailing Address
 Coordinator
 CSIR-NCL Skill Development Program
 CMC Division
 CSIR - National Chemical Laboratory
 Dr. Homi Bhabha Road
 Pune-411008, India





**BASIC SKILL DEVELOPMENT TRAINING ON
"Bitumen & Bituminous Binders: Properties and Testing Methods"
(19-23 May 2025)**

CSIR-INDIAN INSTITUTE OF PETROLEUM

INTRODUCTION

CSIR-IIP has state-of-the-art R&D facilities, experienced and qualified staff and the institute maintains its leading position in conducting training programs for the personnel from refining, petrochemical, automotive, power and related user industry. More than 10,000 personnel from India and abroad have been trained.

CSIR-IIP conducts skill development programs under 'CSIR Integrated Skill Initiatives (ISI)' applications are invited from eligible participants for basic skill development training program on "Bitumen & Bituminous Binders: Properties and Testing Methods".

Bitumen Laboratory is equipped with range of analytical instruments and our Scientists having vast knowledge and working experience. The participants will acquire a broad working knowledge of various analytical testing/evaluation techniques being used for testing quality of bitumen .

CSIR INTEGRATED SKILL INITIATIVE

GET IN TOUCH

Sh Premchand Nerusu
Co-ordinator, Skill Development Training Program
CSIR-Indian Institute of Petroleum Mohkampur,
Haridwar Road Dehradun - 248005

Sh Premchand Nerusu
e-mail: premchand.nerusu@iip.res.in
Tel No 0135-2525950 / 860
M- 9481709862
Sh Rajnish Bhatnagar,
Tel 0135-2525951(O), M-8218559825

**BASIC SKILL DEVELOPMENT TRAINING ON
"BITUMEN & BITUMINOUS BINDERS: PROPERTIES
AND TESTING METHODS"**

OBJECTIVES & SCOPE
The skill development program is designed to provide comprehensive knowledge and practical experience to the participants, aiming to enhance their skills in this area.

AFTER SUCCESSFUL COMPLETION
With exposure to advanced facilities backed by theoretical clarity, a person will be able to develop precise evaluation approach for research and development activities/quality compliances besides running routine analytical tests depending upon individual's ability and dedication in learning the skill.

CONTENTS

- Introduction to Petroleum and Bitumen
- Overview of Bitumen specifications and test Methods as per BIS/IRC/SHRP
- Overview of Bitumen Lab
- Hands on Experience on Lab Test for Un aged bituminous binder as per various ASTM test methods
- Overview of Aging & storage stability of Bitumen
- Hands on Experience on Aging test of Bitumen (RTFOT)
- Overview of Rheology of Bitumen and its significance in Bitumen Testing
- Introduction to Bitumen Emulsion

CSIR INTEGRATED SKILL INITIATIVE

IMPORTANT DATES

Last date for submission of Application	:	16th May 2025
Course Duration	:	19 th to 23 rd May 2025

PRE-REQUISITES / QUALIFICATION
Having graduation and post graduation in Chemical Sciences
Age : 20 - 40 years

WHO SHOULD JOIN
Resident Indian having desire to excel in the area of R&D/ Quality Control OR wants to acquire broad knowledge of testing and evaluation for competitive examinations.

SALIENT FEATURES OF THE PROGRAM

- Theory : Practical - 40 : 60
- Interactive sessions for in-depth knowledge sharing.
- Evaluation of trainees will consist of both Theory & Practical component.
- Certificates will be awarded on successful completion of the training.
- Exposure to R&D labs

COURSE FEES / TERMS AND CONDITIONS

A non-refundable course fee of ₹2,000 (Rupees Two Thousand only) per person is applicable for students/unemployed candidates, and ₹10,000 (Rupees Ten thousand only) for sponsored candidates.

The SC/ST /EWS candidate will get 25% discount in the above fee structure. Course Fee shall be paid through electronic mode after confirmation only.

Boarding & Lodging charges extra as per the prevailing rates of IIP Hostel and subject to availability.

CSIR INTEGRATED SKILL INITIATIVE

Bank Account Details facilitating e-transfer of Payment :

Name of Bank : State Bank of India
Name of the account holder : Director, Indian Institute of Petroleum, Dehradun.
Bank Account No : 30266912400
Branch : IIP Township, Mohkampur Dehradun, India
SWIFT Code II Digit IFS Code : SBININBB380 : SBIN0002359

TRAINING VENUE : CSIR-Indian Institute of Petroleum P.O.: IIP Mohkampur, Haridwar Road, Dehradun-248 005, Uttarakhand (India).

NSDC skills polytechnic, ITI students in job roles related to AI, EV, cybersecurity

Companies such as Google, Toyota, Genpact, Bosch, and a few traditional enterprises are providing apprenticeships

Ayushi Gupta
@timesofindia.com



To help polytechnic, ITI and engineering students find suitable jobs, the National Apprenticeship Promotion Scheme (NAPS), under the National Skill Development Corporation (NSDC), has been training youths in emerging technologies such as Artificial Intelligence (AI), data science, Electric Vehicles (EVs), renewable energy, smart manufacturing, cybersecurity, drone technology, etc. Till now, over 12,000 apprentices from engineering, polytechnic, and Industrial Training Institutes (ITIs) have already participated in these technology-focused apprenticeship programmes. Following their training, many candidates have secured apprenticeship roles such as AI Business Intelligence Analyst, AI Data Engineer, AI Machine Learning Engineer, AI Data Scientist, IoT Software Analyst, EV Service Lead Technician, Battery System Assembly Operator, and Plastic Product Designer, including roles in toy designing in several IT and automobile companies.

Hands-on learning

The NAPS has aligned the apprenticeship programmes with the rapid industrial transformations and the skill demands. Talking to *Education Times*, a senior official at NSDC, says, "NSDC collaborates closely with industry leaders and various Sector Skill Councils (SSCs) to ensure that apprenticeship training

Targeting 46 lakh apprentices over 260 trades by 2026, NSDC enrolled over 37 lakh apprentices in March 2025

is updated regularly to match industry trends. We have partnered with technology firms and automobile companies to offer apprenticeship opportunities for practical exposure. Companies such as Google, Mahindra, Toyota, Tata Group, Genpact, Bosch, and Tata Motors are engaging apprentices, providing them with practical exposure and industry-relevant skills."

Diverse roles

Targeting 46 lakh apprentices over 260 designated trades by 2026, NSDC enrolled over 37 lakh apprentices as on March 15, 2025. Around 45% of the total enrolled apprentices have secured a full-time employment opportunity. The NSDC official, says, "NAPS apprenticeships focus on skill development in high-growth sectors such as electrical, manufacturing,

automotive, retail, IT, and logistical. However, certain trading, plumbing, fitter and electrical work continue to remain in strong demand. NSDC is collaborating with local companies, MSMEs, and traditional enterprises in rural and northeastern states to increase their participation. This includes artisans, handicraft workers, weavers, and skilled professionals in traditional trades, ensuring wider apprenticeship opportunities across diverse job roles." Under NAPS, apprentices receive a stipend, 25% of which is borne by the government, while 75% of the stipend is paid by the company. "Many companies offer stipends above the minimum prescribed amount, ensuring apprentices can sustain themselves during training. An enhanced incentives plan is currently under discussion, specifically aimed at boosting apprenticeship engagement in northeastern states and supporting MSMEs," adds the official.

The proportion of female apprentices has steadily improved from 20.3% in FY 18-19 to 22.7% in FY 24-25 due to targeted initiatives.

"Students from commerce, arts, and other non-technical backgrounds can enrol in apprenticeships in sectors such as retail, hospitality, finance, beauty and wellness if they are class V passouts. Non-tech apprentices are engaged in companies such as Apollo, Reliance, Aditya Birla, ICICI bank, HDFC Financial, Barbeque-National Hospitality and Bikanervala Foods Ltd," the NSDC official says.

In Tamil Nadu, NAPS collaborates with various polytechnic colleges to enhance students' practical skills and employability. V Karthikeyan, director, Thiagarajar Polytechnic College, says, "At our polytechnic, around 80-90% of students secure placements as Direct DETs (Diploma Engineering Trainees). The remaining 10% are hired as company trainees under NAPS. However, the issue of uncertainty around placements affects students' long-term career prospects. Due to this, many candidates return to their hometowns and take up local jobs unrelated to their field of study." Despite its benefits, NAPS faces challenges in implementation. "Only 2,414 industries are registered under NAPS in Tamil Nadu, which limits scope for polytechnic students," says Karthikeyan.

Scaling up apprenticeships

State/UT	FY 2022-23	FY 2023-24	FY 2024-25
Delhi	15,818	16,001	21,331
Haryana	62,866	66,724	64,387
Bihar	5,543	5,317	5,349
Jharkhand	9,185	11,892	9,319
Karnataka	58,524	78,457	88,858
Madhya Pradesh	21,205	22,707	25,317
Maharashtra	1,86,015	2,63,317	2,66,214
Manipur	32	18	187
Meghalaya	181	212	269
Mizoram	4	12	142
Nagaland	22	15	20
Tamil Nadu	72,313	1,01,554	97,120
Telangana	31,821	37,934	32,180
Uttar Pradesh	56,975	71,576	76,128
Uttarakhand	16,436	21,058	22,187
West Bengal	26,109	29,539	22,406

MSDE Launches 'India Skills Accelerator' with WEF for Fast-tracking Skilling



The Ministry of Skill Development and Entrepreneurship (MSDE), in partnership with the World Economic Forum (WEF), has launched the India Skills Accelerator to fast-track skilling efforts nationwide. The new public-private platform aims to address skills gaps by promoting cross-sectoral collaboration, enhancing awareness of future skills, and updating institutional frameworks. The Accelerator will drive initiatives in high-growth sectors such as artificial intelligence, robotics, and energy. The platform is expected to bolster inclusive upskilling, foster agile career transitions, and align education with industry demands, empowering India's youth and ensuring the country remains competitive in the global market.

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Ministry of Skill Development and Entrepreneurship

75 Azadi Ka Amrit Mahotsav

Union Minister Shri Jayant Chaudhary launches NSDC-PDEU Centre offering 40 skill courses at Gandhinagar in Gujarat

Online and hybrid courses in semiconductors, solar, and smart manufacturing to be offered at NSDC-PDEU Centre

Union Minister emphasizes the need for empowering universities to make them engines of national growth

Posted On: 21 APR 2025 6:45PM by PIB Delhi

Union Minister of State (Independent Charge) for Skill Development and Entrepreneurship & Minister of State, Ministry of Education Shri Jayant Chaudhary launched a Centre of Excellence (CoE) – jointly set up by National Skill Development Corporation (NSDC) and Pandit Deendayal Energy University (PDEU) – at Gandhinagar in Gujarat.

"Universities are not merely centres of academic learning—they are transformative bridges connecting young minds to the dynamic realities of the world. By equipping students with both technical expertise and a broad-based liberal education, they cultivate the ability to think critically, innovate fearlessly, and adapt with agility. Gujarat has emerged as a frontrunner in this journey, reshaping its higher education landscape through a strong focus on academic rigor, industry partnerships, and holistic development. And our universities are producing a generation that is not only employable but also imaginative, responsible, and deeply committed to the nation's progress."

Shri Jayant Chaudhary further emphasized the need for universities across India to realign with the evolving demands of industry and actively skill students in response. "We must empower our universities to become engines of innovation—not just to serve market needs, but to advance national growth. When universities lead innovation, it is driven by purpose—for the benefit of society and the nation at large."

The Centre will be equipped with advanced manufacturing capabilities labs to provide specialised training. The centre will offer over 40 online and hybrid courses in sectors such as semiconductors manufacturing, renewable and non-renewables energy, digital edge, smart manufacturing, and more.

A Memorandum of Association (MoA) was signed earlier this month between NSDC and PDEU in this regard. These courses will cater to students from ITI, Diploma, undergraduate, and postgraduate programs. The curriculum is designed to equip learners from Tier-1, Tier-2 and Tier-3 institutes with hands-on experience in niche manufacturing skill sets across critical sectors, including energy, health, water and food.

Shri Ved Mani Tiwari, CEO of NSDC and MD of NSDC International, said, "At NSDC, our core mission is to make youth employable, and this collaboration will strengthen the skilling ecosystem. This collaboration will support the development of training infrastructure in smart manufacturing, along with Centres of Excellence focused on automotive, EV charging, renewable energy, and semiconductors. Training in the semiconductor domain is already underway, paving the way for youth to gain practical exposure in high-demand, future-oriented fields. Under the visionary leadership of Prime Minister Shri Narendra Modi, the NSDC is placing a strong emphasis on global certification programmes that enable Indian students to access world-class skills and compete confidently in the international job market. We are dedicated to making India's youth employable, entrepreneurial, and future-ready."

"Through hybrid-mode training in renewable, non-renewable, and hydrogen energy technologies, India is equipping its youth to lead in the global energy revolution. This initiative ensures nationwide access, bridging gaps and empowering students across the country. It's more than skill development—it's nation building. These efforts boost youth employability while positioning India as a future global leader in the energy sector."

This CoE will serve as a hub for hands-on learning, R&D, and real-time industry engagement in semiconductors, advanced manufacturing, embedded systems, and VLSI design, directly addressing the talent needs of these sectors. It will act as a crucible for developing specialised skills aligned with the national priorities of sustainable development and energy security. Students will be trained to become "Energy Ambassadors for the Nation."

PDEU Director General S Sundar Manoharan said, "Aligning seamlessly with the visionary leadership of Prime Minister Shri Narendra Modi and his mission to empower youth and advance skill development across India, PDEU is committed to empower countless individuals nationwide, with Centres of Excellence playing a vital role in realizing the goals of Aatmanirbhar Bharat and Viksit Bharat."

Underlining the Gujarat Government's strategic investments in these centres, he noted their crucial contribution to national missions—particularly in the realms of semiconductors—cementing India's position as a global innovation hub.

The NSDC will play a key role in the smooth functioning of the CoE and in the seamless delivery of programmes to students. It will periodically monitor project progress to ensure that students receive quality training and are prepared for future job roles.

The PDEU, which has been at the forefront of energy transition and skill development, will leverage its expertise in different verticals, including solar and wind energy, lithium and vanadium energy storage, carbon capture and smart hybrid grids to prepare students for careers in these fields. It will empower students with industry-standard manufacturing lines, including the "45 MW Solar PV Manufacturing Line" and the ATMP Semiconductor Packaging Line.

The partnership between NSDC and PDEU marks a transformative step towards building a future-ready workforce, which is crucial for India's economic growth and technological leadership. It will play a vital role in Make-in-India Readiness movement and accelerate the progress of Aatmanirbhar Bharat.

Beena Yadav/Divyanshu Kumar

सीएसआईआर-केंद्रीय विद्युतरसायन अनुसंधान संस्थान
(द्वैतनिक एवं औद्योगिक अनुसंधान परिषद)
कारािकुडी-630003, तमिलनाडु, भारत

CSIR-Central Electrochemical Research Institute
(Council of Scientific & Industrial Research)
Karaikudi-630003, Tamil Nadu, India

कौशल विकास प्रशिक्षण कार्यक्रम (2025 - 2026)
SKILL DEVELOPMENT TRAINING CALENDAR (2025 - 2026)

04565-241146 / 241521

www.cecri.res.in

SL. NO.	TITLE OF THE COURSE	DURATION	QUALIFICATION
20	Recovery and recycling of end of life solar PV panels/modules Dr. A. Palaniappan Dr. A. Pandikumar	19.01.2026 - 23.01.2026	Bachelor / Master Degree in Science (preferably in Physics, Chemistry, Material Science / Nano Technology) / Diploma in Mechanical / EEE
21	Materials characterization using XRD, XPS, EDS & EBSD techniques Mr. K. Ranjithkumar Mr. Dhanikella Vara Prasad	02.02.2026 - 06.02.2026	Master Degree in Science (Physics, Chemistry, relevant to Materials Studies)
22	Surface coatings by physical and chemical methods for bio implants Dr. B. Subramanian Dr. G. Sreedhar	09.02.2026 - 13.02.2026	10 th / 12 th pass or fail / ITI / Polytechnic / Diploma pass or fail or Bachelor Degree in Science or Engineering sciences

Fee: The participation fee Rs. 500/- (Rupees five hundred only) per person for each of the above skill training programmes, which includes 18% GST. Application form with necessary details is available at <https://cecri.res.in/Academics/Trainingprogrammes.aspx>. Interested candidates may submit their duly filled application through online, well in advance (At least 7 days prior to the commencement of each training programme). The above training programmes will be conducted at CSIR-CECRI. Participation certificates will be issued to all the participants on completion of the respective training courses satisfactorily. The course fee will be refunded if it is cancelled by CSIR-CECRI for any reason.

Accommodation: Shared accommodation (double/triple) will be arranged for trainees on request at CSIR-CECRI Campus, Karaikudi or @ RTC, Amaravathipuram on payment basis. The accommodation charges per person Rs.100/- (Rupees hundred only) per day will be collected at the time of check-out. Moreover, participants can make use of the CSIR-CECRI Departmental Canteen for food (breakfast and dinner) on payment basis.

Bank Details For Payment (e-transfer)

Name of the bank	Indian Bank
Branch Name	A.C. Campus, Karaikudi
Branch code	00245
Name of the Account	IRE-CECRI
Account Number	737253625
IFSC code	IDIB000A008
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**CSIR-CECRI, Karaikudi: Skills and Refresher Training Brochure
released by Director Dr. K Ramesh on 24 April 2025**

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Detailed Brochure

