



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

### Editorial Team

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## SKILLING/UPSKILLING TRAINING PROGRAMS BY CSIR

सीएसआईआर द्वारा स्किलिंग/अपस्किलिंग प्रशिक्षण कार्यक्रम

**CSIR-IMTECH, Chandigarh organized a training program for MSc students at College of Animal Biotechnology, GADVASU, Ludhiana from March 26th-28th, 2024.**



**CSIR-CECRI, Karaikudi organized a one-week Training Program on "Surface Coatings for value added products viz. Decorative and Functional Applications" during April 01- 05, 2024. 43 participants attended this program. This program aims to provide the latest knowledge & skills of the Surface coating.**



**CSIR-CSMCRI, Bhavnagar organized a five-day training program on "Advanced Sophisticated Analytical Instruments" from 01-05, April 2024.**



**(Please click on the link to view the details)**

- **CSIR-CMERI, Durgapur organized a program on "Non-Destructive Testing (NDT) for Industrial Applications" from 1st-5th April 2024. 16 nos of engineering students have participated in this course.**
- **CSIR-IICT, Hyderabad organized a program on "Synthetic Organic Chemistry "on 10th April 2024. 22 Postgraduates in Chemistry from TSWREIS, Telangana were trained .**
- **CSIR-CLRI, Chennai organized a program on "GAIT Analysis" from 19th Feb to 5th April 2024. This comprehensive course provided valuable insights into analysing and interpreting gait patterns for various applications.**
- **CSIR-CLRI, Chennai organized a program on "Testing & Calibration for Leather Sector" from 26th Feb to 5th April 2024.**



**Corrosion protection technologies for construction of buildings and structures**

22 - 26 April 2024

BE (Civil) or ME (Structural Engineering)

Dr. J. Daniel R. Joseph  
Dr. M. Ashok



### कौशल विकास प्रशिक्षण कार्यक्रम (2024 - 2025)

#### SKILL DEVELOPMENT TRAINING CALENDAR (2024 2025)

सीएसआईआर-केंद्रीय विद्युतरसायन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान संस्थान)  
काराकुडी-630003, तमिलनाडु, भारत

CSIR-Central Electrochemical Research Institute

(Council of Scientific & Industrial Research)  
Karaikudi-630003, Tamil Nadu, India



### CSIR-NCL SKILL DEVELOPMENT PROGRAM

#### "Chromatographic Techniques"

Third Wave



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

**FOR WHOM**

- Students
- Academic Researcher/Chairs
- Industrial Professionals

**HOW TO APPLY**

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

#### ABOUT COURSE

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

#### COURSE CONTENT

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

#### PRIME INSTRUCTOR & TEAM

Dr. Mahesh Kulkarni  
Dr. Sastry Borkar  
Dr. Nilakshi Sadavarte  
Dr. Snehal More

#### COURSE DETAILS

Duration: 3 Weeks  
Dates: 22 April - 20 May 2024  
No. of Seats: 10  
Eligibility: BSc, Chemical & Life Sciences, M.Phil.

#### COURSE FEE

Basic Fee: INR 40,000/-  
Academic Professional Fee: INR 40,000/-  
The fee includes: INR 20,000/-  
Accommodation: 3 weeks - 2 days with portable charges.

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

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

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

[ncl.sdpc@ncl.res.in](mailto:ncl.sdpc@ncl.res.in)

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



### 15-day Certification Course on "ROAD SAFETY AUDIT AND OTHER ROAD SAFETY RELATED ASPECTS"

Road Safety Auditors / Highway Engineers / Traffic Engineers / Transportation Planners / Students (15 to 30 April 2024)

Organised by CSIR - Central Road Research Institute, New Delhi - 25

In association with Ministry of Road Transport and Highways (MoRTH) and Indian Roads Congress (IRC)

**About the Institute:**

For capacity building of human resources in the area of Highway Engineering to undertake and execute roads and roadway projects, Institute has the competence to organize National & International Training Programmes continuing education courses since 1952 to disseminate the R&D findings to the masses.

**About the Courses:**

This course is specially designed and offered by this institute based on the many requests received from the practicing Engineers / Consultants / Student interns to gain practical knowledge on Road Safety Audit, different aspects of road engineering and road safety. Further, considering the recent circular issued by the National Highway Authority of India (NHAI) vide circular no. NHAI/RSO/12/Engineering/4231 dated 08/10/2016 aimed at enhancing the skill levels of practicing engineers, Faculty of Civil Engineering / Transportation Engineering and also to enhance the knowledge of the students graduating from Masters (Transportation / Highway Engineering) / Bachelor degree program in Civil Engineering stream. This 15-day course is structured to cover during the initial phase fundamentals of Traffic Engineering and safety followed by aspects / safety issues related to Pavement Engineering, Bridge and Geotechnical Engineering. Thereafter, detailed focus on Road Safety Audit (RSA) including trauma care would be taken up through 6 days of exposure to the conduct of Practical RSA including road preparation. These would cover sub-areas to be employed for various types of road facilities like Two lane roads, Multi-lane Highways, Urban Roads, Expressways, HI Roads and associated interchanges. 11\* such 15-day programs were successfully conducted during the year in 2017 in May, November, December 2018, April/May 2019, November 2019, October/November 2020, April 2021, November 2021, April 2022, October 2022, November 2022, April 2023 and Nov 2023 and this a pool of 726 certified road safety auditors were created. These certified road safety auditors were successful in generating more than 17,000 kms of RSA work from National Highway Authority of India (NHAI), Ministry of Road Transport and Highways (MoRTH) and other state Public Works Departments (PWD) primarily due to the above certification program. The topics envisaged to be covered under the theme of road safety are broadly given below:

- Global Road Safety and Road Safety in India
- Safety System Approach and Forging Roads
- Designing for Safety: Road Link Design

Designing for Safety: Road Link Design and Junctions

- Planning for Road Network, Land Use & Environment for Road Safety
- Road Signs and Road Markings
- Speed and Hazard Management
- Speed Enforcement and Infrastructure Requirements
- Night Time Road Safety Audit
- Introduction to Road Safety Audit (RSA) Approach & Methodology
- Design Stage RSA: Theory, Practical - Case Study
- Construction Stage Road Safety Audit, Theory, Practical - Case Study
- Pre-Opening Stage Road Safety Audit, Theory, Practical - Case Study
- Existing Stage Road Safety Audit, Street Lighting & Traffic Signals
- Site Rating of Road Network Using RMAP
- Road Crash Investigation, Black Spot Identification and Remedial Measures
- Traffic Volume Studies, Speed and Delay Studies, Spot Speed Studies and Intersection Delay Studies
- Organizational Commitment towards Road Safety Audit
- First aid and Trauma Care Centres
- Legislative provisions related to road safety in Motor Vehicle Act Amendments and other relevant features
- Intelligent Transportation System for Highway Traffic Management

To be paid to	Course Fee (INR)	Account Details	Payment Details to be sent to
CSIR	88,500/- (75,000 + 13,500)	Central Road Research Institute, New Delhi, India	centralrd@ncl.res.in
Invoice	47,250/- (40,500 + 7,200)	Dr. K. Srinivasan, CSIR-CRRI, New Delhi, India	ksrinivasan@ncl.res.in
IRC Fee	657.18/- (500/- + 157.18/-)	Indian Roads Congress, New Delhi, India	irc@irc.org
CSIR-CRRI	4,229,432/- + 750 GST (15% for Student)	CSIR-CRRI, New Delhi, India	centralrd@ncl.res.in

\*After fee payment kindly fill the Nomination form and the link: <https://nclsdpc.ncl.res.in/>

Limited accommodation is available to the delegates at the CSIR - CRRI Guest House on First Come First Service basis on payment of nominal fee. Course fee is not paid through only Online, Fee once paid cannot be refunded back. Further, the payment details made through online transfer should be sent to the following address through E-mail, for completing the registration process:

Dr. Kartha Ravinder  
Chief Scientist  
Transportation Planning & Environment Division  
CSIR-Central Road Research Institute  
Mullana Road, New Delhi-110025  
Mobile Number: 9868211775, 985220098  
Email: centralrd@ncl.res.in, vrs\_24@ncl.res.in

D. S. Vamanganti  
Chief Scientist-I/C  
Traffic Engineering and Safety Division  
CSIR-Central Road Research Institute  
Mullana Road, New Delhi-110025  
Mobile Number: 9868211775  
Email: centralrd@ncl.res.in, vrs\_24@ncl.res.in

### NOMINATION FORM

Name: \_\_\_\_\_

Father's Name: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Educational Qualifications: \_\_\_\_\_

Designation: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Category: SC/ST/OBC/General

Company GST Number: \_\_\_\_\_

Contact Number: \_\_\_\_\_

Email: \_\_\_\_\_

Guest House Requirement: Yes/No

Aadhar Number: \_\_\_\_\_

Details of Online payment: \_\_\_\_\_

Reference number: \_\_\_\_\_

Name of Bank, Amount Transferred & Date of Transfer: \_\_\_\_\_

### कौशल विकास कार्यक्रम

#### Skill Development Programme 2023-24

(अप्रैल - जून, 2024)  
(April - June, 2024)

Organized under:  
सीएसआईआर-केंद्रीय वैज्ञानिक उपकरण संगठन  
CSIR Integrated Skill Initiative Programme

S. No.	Date	Programme Title	Duration	Registration End Date
1	12 <sup>th</sup> April, 2024 (Friday)	Entrepreneurship Development Programme (EDP)	1 Day	4 <sup>th</sup> April, 2024
2	18 <sup>th</sup> April, 2024 (Tuesday)	Robotics & Industrial Automation	1 Day	8 <sup>th</sup> April, 2024
3	24 <sup>th</sup> to 28 <sup>th</sup> April, 2024 (Wednesday - Friday)	Industrial Invariant of Things (IIT)	3 Days	17 <sup>th</sup> April, 2024
4	7 <sup>th</sup> to 9 <sup>th</sup> May, 2024 (Tuesday - Thursday)	Fundamentals of Mechatronics Engineering	3 Days	1 <sup>st</sup> May, 2024
5	21 <sup>st</sup> to 22 <sup>nd</sup> May, 2024 (Tuesday - Wednesday)	Additive Manufacturing Technology	2 Days	14 <sup>th</sup> May, 2024
6	30 <sup>th</sup> to 31 <sup>st</sup> May, 2024 (Thursday - Friday)	CAD/CAM Technologies	2 Days	22 <sup>nd</sup> May, 2024
7	11 <sup>th</sup> to 13 <sup>th</sup> June, 2024 (Wednesday - Friday)	Industrial Automation Technology	3 Days	5 <sup>th</sup> June, 2024
8	26 <sup>th</sup> to 27 <sup>th</sup> June, 2024 (Wednesday - Thursday)	Injection Moulding Techniques	2 Days	20 <sup>th</sup> June, 2024

Venue of Training : ISTC, CSIR-CSIO, Sector 30-C, Chandigarh

**NOTE:**

- All the courses will be conducted in physical mode at CSIR-CSIO, Chandigarh.
- Details of course contents will be shared before the commencement of the workshop.
- The seats in every workshop will be limited and offered on first come first served basis. The confirmation to attend the particular workshop is provided to selected participants will be sent by registered email 10 days prior to one week before start of workshop.
- Registration of each courses will be closed at least a week prior to the commencement of course, participants must register accordingly.
- The interested participants can register for particular workshops using the link: <https://nclsdpc.ncl.res.in/>
- The prior registration to attend the workshop is mandatory. No participant will be allowed to attend the workshop without registration.
- The participant will arrange their own staying arrangement in Chandigarh and cost of stay will be bear by participants themselves.
- Certificate will be issued to the participant who will attend the workshop.
- Some courses will be offered with limited seats and non-refundable course fee.
- The dates of above programmes are tentative, any changes will be informed through registered Email ID and on CSIO website.
- Please visit website regularly to get latest information and updates related to offered courses.

**Contact Details:**

Prof. Shantam Bhattacharya  
Director  
CSIR-CSIO, Chandigarh

Mr. Narinder Singh Jassal  
Sr. Principal Scientist & Coordinator  
CSIR Integrated Skill Initiative  
CSIR-Central Scientific Instruments Organisation  
Sector 30-C, Chandigarh-160030  
Phone No: 0172-2657389 Email Id: [skil@csio.ncl.res.in](mailto:skil@csio.ncl.res.in) Website: <https://www.csio.res.in>

(Please click on the link to view the details)

- ◆ India Inc leaders advocate regulatory overhaul, skill development, and ease of business
- ◆ Know the Top Schemes Empowering India Through Skills Under Skill India Mission
- ◆ NIELIT signs three MoUs for skill development, research in Kerala
- ◆ Combating Unemployment through Evolving Tech Skill Sets
- ◆ India poised to fill global demand-supply gap of skilled workers
- ◆ IIT Hyderabad Offers Skill Development Program In Aerospace Engineering
- ◆ KDM introduces revolutionary Skill Development Program 'KDM MBA'
- ◆ Odisha Skill Development Authority's SWAKALPA SAHAJOGA II Unites 100 Nano Entrepreneurs Under One Roof
- ◆ SAP Labs India Collaborates with Akshadhaa Foundation to Boost Digital Learning for the Neurodiverse Community
- ◆ Skill development crucial in setting up efficient logistics: Department for Promotion of Industry and Internal Trade (DPIIT).
- ◆ Need to focus on market-oriented skill development
- ◆ IFACET, IIT Kanpur collaborate with a skill development platform to offer online courses in cutting-edge technologies
- ◆ Bridging the skill demand-supply gap in solar and green hydrogen sectors
- ◆ Experts advocate for skill development in Indian realty sector
- ◆ Diageo India signs MOU with SCPwD to Train 300 Persons with Disabilities Through Training Program
- ◆ IHM Institute of Hospitality Skills IIHS opens largest training centre in Udaipur
- ◆ Ajeenkya DY Patil University(ADYPU) and Pearson Forge Strategic Partnership to Enhance Educational Offerings in India
- ◆ How NEP 2020 is Reforming Vocational Education and Skill Development
- ◆ 5 Ways Emerging Technology Courses Can Revolutionize ITI Education
- ◆ Aditya Group of Institutions aims to enhance job prospects by offering industry-ready courses
- ◆ Skill gap in workforce, AI advancements make cyber attacks more threatening in India
- ◆ A Decade of Reforms: The Evolution of Education and Skill Development
- ◆ Australian delegation aims to enhance skill training collaboration with India
- ◆ British institutions evince interest in skill development programmes



### जून ने पर्वतारोहण में सफलता दिलाई

#### कार्यस्थल में समावेशिता को बढ़ावा देने पर परिचर्चा

भास्कर संवाददाता। नागपुर, सीएसआईआर-राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान (सीएसआईआर-नीरी) में कार्यस्थल में समावेशिता को कैसे सुनिश्चित किया जाए, इस पर एक परिचर्चा का आयोजन किया गया। इस अवसर पर पर्वतरोही विमला देवस्कर ने अपने विचार रखे। कार्यक्रम में मनषा की अतिरिक्त आयुक्त आंचल गोयल, आईजीएमसे की पूर्व अधिष्ठाता डॉ. राधा मुंजे, सीएसआईआर-नीरी डॉ. अतुल वैद्य प्रा. प्रमोद पटोले, माधुरी फेंडरकर, आत्या कपले आदि उपस्थित थे।

#### कौशल विकास पर मार्गदर्शन

विमला देवस्कर ने बताया कि यज्ञा में उन्हें शरीरिक और मानसिक चुनौतियों का सामना करना पड़ा, लेकिन उनके जुनून और निर्यात वे उन्हें विभिन्न पर्वतारोहण अभियानों में सफलता दिलाई। आंचल गोयल ने समग्रोशी कार्य संस्कृति बनाने के लिए सांस्कृतिक और संरचनात्मक पहलुओं पर ध्यान दिया। उन्होंने कहा कि महिलाओं को अधिक जिम्मेदारियों को संभालने के लिए प्रेरित किया जाए उन्हें अपने कौशल विकसित करने, आत्मनिश्चय बनाने और अपने करियर में आगे बढ़ने के लिए मार्गदर्शन किया। डॉ. वैद्य ने कहा कि मनसिकता परिवर्तन वास्तव में कार्यस्थल में महिलाओं की समावेशिता के लिए महत्वपूर्ण है। हमें वर्गीय भेदों में विज्ञान को बढ़ावा देना चाहिए, क्योंकि वैज्ञानिक ज्ञान और कौशल महिलाओं के स्वविकास में सहायक होते हैं। संघान डॉ. देवीश्री खन्ने ने व आमर प्रदर्शन वरिष्ठ वैज्ञानिक प्रकल कुंभरे ने नला।

### ITIs gearing up to introduce AI for All in their curriculum

PIONEER NEWS SERVICE ■ NEW DELHI

Industrial Training Institutes (ITIs) across India will soon gear up to introduce the curriculum "AI for All," aimed at building awareness on Artificial Intelligence (AI) which will prepare students for the challenges and opportunities of the future.

This initiative, spearheaded by the Future Right Skills Network (FRSN) in collaboration with the Directorate General of Training (DGT), marks a significant step towards equipping youth with awareness on AI to enhance their employability prospects. For new entrants in the job market, skilling is critical and for ones who are already working, reskilling and upskilling is critical. Pradhan said on the occasion. He said that he was also delighted that all the MoUs have an element of tech in it,

which was imperative in making things evolve faster and also played a critical role in communication and networking. "Our present era is a disruptive era. Whoever is able to see it and tries to understand this, will remain relevant."

The "AI for All" curriculum aims to initiate the journey into AI by fostering awareness, with a focus on bridging the gap between industry requirements and academic offerings. This step is crucial in aligning academic programs with the evolving needs of industries. The AI curriculum by FRSN is part of the larger initiative of DGT, to integrate AI learning at ITIs.

This initiative envisions to empower up to 2.5 million learners across 15,000 ITIs nationwide, equipping them with essential future skills such as digital literacy, green mindsets, problem-solving, critical thinking and workplace readiness among others. Aakash Sethi, CEO, Quest Alliance, Accenture, Cisco, J.P. Morgan, and SAP Labs India. The collaborative underscores a collective commitment to empowering India's youth for the knowledge economy.

as well as understand the types of AI.

"In addition to this, learners can also explore the use of AI and Generative AI tools in creating various digital contents and in education. We also ensure that the learners understand and discuss the ethical considerations and responsible use of AI," he said.

He also added that by equipping our youth with future skills, we not only empower them to thrive in an increasingly complex landscape but also foster a community of lifelong learners and innovative problem-solvers. The renewed MoU outlines a comprehensive framework for collaboration to work in four broad areas: curriculum and assessment to build employability skills, trainer development, women and work, and integration of future skills such as Green and AI.

Formed in 2019, FRSN is a collaborative effort of QUEST Alliance, Accenture, Cisco, J.P. Morgan, and SAP Labs India. The collaborative underscores a collective commitment to empowering India's youth for the knowledge economy.

## GLIMPSES झलकियां

### CSIR-IMTECH



### CSIR-CECRI



### CSIR-IIT



### CSIR-CMERI



### CSIR-CLRI



### CSIR-CLRI



<https://www.csir.res.in/csir-labs-units>

<https://msde.gov.in>

<https://nsdcindia.org>

<https://ncvet.gov.in>

<https://www.education.gov.in>

<https://www.nqr.gov.in>



**CSIR  
SKILL BULLETIN**

SCAN QR CODE TO ACCESS

Newsletter (Volume-II; Issue-6th)

QR code and thumbnail of the newsletter.



**CSIR  
INTEGRATED SKILL INITIATIVE  
IS NOW ON  
WHATSAPP CHANNEL**

SCAN QR CODE TO JOIN OUR

WhatsApp Channel

QR code and WhatsApp logo.



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INTEGRATED SKILL INITIATIVE  
is now on YouTube**

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**YouTube Channel**

**CSIR-Human Resource Development Centre  
(Skill Nodal Office)**

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Kamla Nehru Nagar  
Ghaziabad- 201002 (UP) India

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Tele-Ph.: +91-120-2788940/2785053

**सीएसआईआर-मानव संसाधन विकास केंद्र  
(कौशल नोडल कार्यालय)**

सेक्टर -19, केंद्र सरकार एन्क्लेव,  
कमला नेहरू नगर  
गाजियाबाद- 201002 (यूपी) भारत

ई-मेल: head[at]csirhrdc[dot]res[dot]in  
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(CSIR Integrated Skill Initiative)

**Detailed Brochure**

