15 August
Happy Independence Day

CSIR-CEERI

CSIR-IITR

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

Editorial Team
- Dr Vinay Kumar
- Ms Neeti Sagar
- Sh J. Suriyanarayanan
- Dr Durgavati Yadav
- Mr Pradeep Kr Sharma
- Ms Sindhu Gupta

In this issue
- Skill Trainings by CSIR
- Nodal Office Updates
- Upcoming Events
- News Clippings
- General Events
- Glimpses
- Feedback
- Useful Links

SKILLING/UPSKILLING TRAINING PROGRAMS BY CSIR
सीएसआईआर द्वारा स्किलिंग/अपस्किलिंग प्रशिक्षण कार्यक्रम

CSIR–SERC, Chennai organized an advanced course on "Fatigue and Fracture Behavior of Materials, Components and Structures (FFBMCS '24)" from 24th-26th July 2024. 36 participants from Academia & Industry attended this course.

CSIR–CDRI, Lucknow organized a program on "Pathological Tools & Techniques for Biomedical Applications" from 19th June to 31st July 2024. 20 Participants took part in this program.

CSIR–CGCRI, Kolkata organized a program on "Energy Saving Concepts and Possibilities in Vitreous China Sanitaryware Manufacturing" in Panchal Ceramic Association Hall, Thangadh, Gujarat from 30th - 31st July 2024. 44 participants from Industry / Diploma (Engg.) / H.S.C (10+2) participated in the training program.

CSIR - Human Resource Development Centre, Ghaziabad
(Skill Nodal Office)
सीएसआईआर - मानव संसाधन विकास केंद्र, गाजियाबाद
(कौशल नोडल कार्यालय)

01

CSIR-CEERI, Pilani organized a one-day workshop focused on "Analytical Instruments and the ATMP system" on August 7th, 2024. 60 students from Dr. B. Lal Institute of Biotechnology visited the Jaipur Campus. The students received hands-on training with various analytical instruments, including NMR, Raman Spectroscopy, and UV-VIS spectrophotometers.

(Please click on the link to view the details)

- **CSIR-IITR, Lucknow organized a two-day workshop on "SDS-PAGE and Western Blotting" from 7th-8th August 2024. 20 participants from different institutes attended the workshop & it successfully ended with feedback from the participants and a Valedictory Session.**

- **CSIR-IITR, Lucknow organized one-day workshop on "High-End Microscopy (Scanning Electron Microscopy /Transmission Electron Microscopy)" on 9th August 2024. 19 participants participated in the workshop. Participants were given a hands-on demonstration on TEM and SEM.**

- **CSIR-NEERI, Nagpur organized a Training Program on "Water Quality: Testing and Data Management" from 12th-14th August 2024. Dr H. Singh, Sr Principal Scientist & In-charge, briefed about Green Skill Development activities of CSIR-NEERI. 21 participants from rural and urban areas (Odisha, Bihar, Haryana, Maharashtra, Telangana, Kerala, Madhya Pradesh and Tamil Nadu) had participated in hands-on training of water testing laboratories and demonstration on sophisticated instrumentation (GC, ICPOES, AAS, CHNS Analyzer, etc.)**
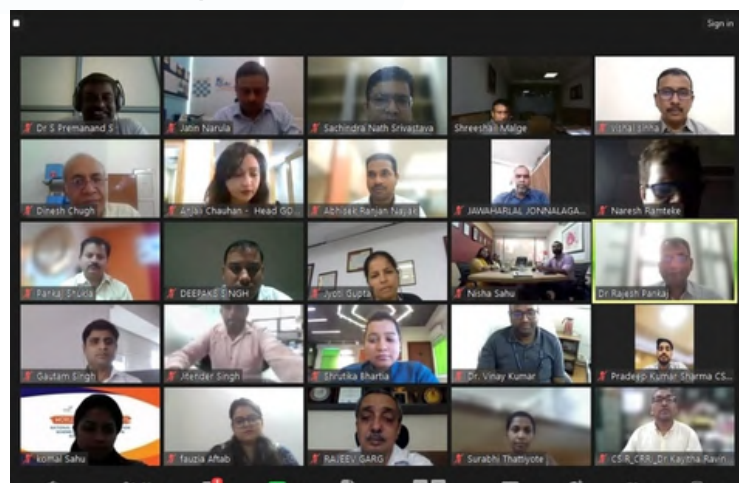
NODAL OFFICE UPDATES
नोडल कार्यालय अपडेट

An awareness Workshop was organized jointly by CSIR-Human Resource Development Centre (CSIR-HRDC), Ghaziabad and Federation of Indian Chambers of Commerce & Industry (FICCI), New Delhi titled "Making Apprenticeship Aspirational" on 1st August 2024 through online mode. After the Opening Remarks by Dr Rajesh Pankaj, Director FICCI, Prof Manoranjan Parida, Director, CSIR-Central Road Research Institute (CRRI) delivered Welcome Remarks and emphasized the pressing need for such workshops and volunteered CRRI's support, as needed. Shri Shreeshail Malge, Joint Secretary, Ministry of Skill Development & Entrepreneurship (MSDE) outlined various criterias and applicability from the Apprenticeship Act and Rules. Shri V.S. Arvind, Director MSDE and Ms Sirija Dutta, NSDC gave presentation on various aspects of the Act. There was Question & Answer session at the end of the Workshop, which was attended by over 80 individuals, covering project fellows, students, industry workers and employers. The Workshop ended with Vote of Thanks by Dr Vinay Kumar, Sr Principal Scientist & Skill Nodal PI, CSIR-HRDC.

CSIR - Human Resource Development Centre, Ghaziabad
(Skill Nodal Office)
सीएसआईआर - मानव संसाधन विकास केंद्र, गाजियाबाद
(कौशल नोडल कार्यालय)

02

Skill Development Programme 2024-25

CSIR-CSIO

कौशल विकास कार्यक्रम
Skill Development Programme 2024-25
(जुलाई - सितम्बर, 2024)
(July - September, 2024)

Organized under:
सीएसआईआर एकीकृत कौशल पहल कार्यक्रम
CSIR Integrated Skill Initiative Programme

सीएसआईआर-केंद्रीय वैज्ञानिक उपकरण संगठन
सेक्टर 30-सी, चंडीगढ़ -160030
वेबसाइट : https://www.csio.res.in

CSIR-Central Scientific Instruments Organisation
Sector 30-C, Chandigarh-160030
Website: https://www.csio.res.in

कौशल विकास प्रशिक्षण कैलेंडर (जुलाई - सितम्बर, 2024)
Skill Development Training Calendar (July - September, 2024)

S. No.	Date	Programme Title	Duration	Registration End Date
1	23rd-24th July, 2024 (Tuesday & Wednesday)	CAD/CAM Technologies	2 Days	18th July, 2024
2	8th-9th August, 2024 (Thursday & Friday)	Additive Manufacturing	2 Days	1st August, 2024
3	22nd-23rd August, 2024 (Thursday & Friday)	Fundamentals of Electrical Engg. & its Industrial Applications	2 Days	16th August, 2024
4	28th August, 2024 (Wednesday)	Entrepreneurship Development Program	1 Day	23rd August, 2024
5	2nd to 6th September,2024 (Monday to Friday)	Training on Spectroscopy and Chromatography Techniques	5 Days	28th August, 2024
6	10th-11th September, 2024 (Tuesday & Wednesday)	Drone Technologies and applications	2 Days	2nd September, 2024
7	25th to 27th September,2024 (Wednesday to Friday)	CNC Machining	3 Days	20th September, 2024

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

NOTE:
- All the courses will be conducted in physical mode at CSIR-CSIO, Chandigarh.
- Details of course content will be shared before the commencement of workshop.
- The seats in every workshop will be limited and offered on first come first served basis. The confirmation to attend the particular workshop to selected participants will be sent in registered email Id approximately 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://forms.gle/KdUchQnEEd2TgvKeA
- 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 borne by participants themselves.
- Certificate will be issued to those participants 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 websites regularly to get latest information and updates related to offered courses.

Contact Details:

Prof. Shantanu 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: skill.csircsio@gmail.com Website: https://www.csio.res.in

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CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY
(Under Ministry of Science & Technology, Govt. of India)
Tarnaka, Uppal Road, Hyderabad – 500 007, Telangana, India

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.

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.

Courses
- Finishing School to Post-Graduates in Chemistry (16 weeks) (June 2024 - Oct 2024)
- CRISPR/Cas9 Mediated Gene Knockout in Cell Lines (2 weeks) (Aug 2024 - Sep 2024)
- Organic Coatings & Paints (1 week) (Sept 2024)
- Analytical Techniques in Food and Nutritional Chemistry (4 weeks) (Sep 2024 - Oct 2024)
- Animal Cell Culture Techniques (6 weeks) (Sep 2024 - Nov 2024)
- Powder X-Ray Diffraction-Hands on Training (1 week) (Oct 2024)
- Conventional Chromatographic and Spectral Analysis of Oil & Fats (3 days) (Oct 2024)
- Certificate Course in Basic Bioinformatics & Cheminformatics (2 weeks) (Jan 2025 - Feb 2025)

Salient Features
Rigorous training in advanced topics by means of theory and Experimentation
Personal Attention during Hands on sessions
Exposure to Research areas in the Institute
Evaluation of knowledge gained by weekly assignments
Course completion CERTIFICATE to all the Trainees

Target Beneficiaries
Graduates & Post Graduates in Chemical / Biological / Environmental Sciences, etc.

Nodal Officer- Skill Development
CSIR-Indian Institute of Chemical Technology, Tarnaka-Uppal Road, Hyderabad - 500 007, Telangana, India
Follow us... sdp@iict.res.in iictindia 040-27193145

CSIR Integrated Skill Initiative
SKILL DEVELOPMENT GROUP
CSIR-CECRI

Electro-analytical techniques for (Electro) catalytic and (Bio) sensing applications Dr. V. Ganesh Dr. C. Suresh	05 - 09 August 2024	Bachelor Degree in Science or Engineering sciences
Operation and maintenance of analytical instruments Mrs. K. Andal Er. V. Prabu	02 - 06 September 2024	Bachelor Degree in Science or Engineering sciences

कौशल विकास प्रशिक्षण कार्यक्रम (2024 - 2025)
SKILL DEVELOPMENT TRAINING CALENDAR (2024 2025)

सीएसआईआर-केंद्रीय विद्युतरसायन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
कारैकुडी-630003, तमिलनाडु, भारत

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

CSIR - Human Resource Development Centre, Ghaziabad
(Skill Nodal Office)
सीएसआईआर - मानव संसाधन विकास केंद्र, गाजियाबाद
(कौशल नोडल कार्यालय)

03

SKILL DEVELOPMENT PROGRAMME

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

"Microalgal Lipidomics: Scaleup and FAME profile by GC-MS"

CSIR Integrated Skill Initiative

CSIR-NIIST THIRUVANANTHAPURAM

- Practical experience in algal biotechnology, from basic culturing to advanced analytical techniques.
- Learn the nuances of scaling up microalgal cultivation, exploring the dynamics of photobioreactors (PBR) with a working volume of 200 L.
- Lipid enhancement strategies
- Biomass harvesting through bioprocess model continuous flow centrifuge
- Training on GCMS and other related analytical instruments
- Industry-scale microalgal cultivation practices and considerations.

To provide comprehensive training in algal lipidomics towards translational scope in nutraceutical, pharmaceutical, feed and renewable energy sector.

Course fee:
Rs. ₹5000 (Students)
&
₹7500 (Faculty & Industry)

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

Talks by EXPERTS & Interactive Session

Course Coordinator:
Dr. Muthu Arumugam
(Principal Scientist, MPTD)

CONTACT:
PHONE: 0471-2515326
E-mail: sdp@niist.res.in

DATE:
26-30 August 2024

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

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सी.एस.आई.आर- हिमालय जैवसंपदा प्रौद्योगिकी संस्थान, पालमपुर
CSIR - Institute of Himalayan Bioresource Technology, Palampur
पोस्ट बॉक्स न. 06, पालमपुर - 176 061 (हिमाचल प्रदेश) भारत
Post Box. No. 06, Palampur - 176 061 (Himachal Pradesh) INDIA

CSIR- Integrated Skill Initiative (Phase-II)
Applications are invited for the Course of

Plant Tissue Culture Technician

ASCI
Agriculture Sector Skill Council of India

(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 essential skills of PTC to unemployed youth to excel in PTC industries or laboratories.

Course Duration: 08 weeks
(02nd September-28th October, 2024)

Course Include :
- 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 at the workplace

Last date for receiving application	: 19th August, 2024
Course fee	: Rs. 5000/-
No. of Seats	: Limited
Education Qualification	: 10+2

Course-Coordinator
Dr. Ashish R. Warghat

Nodal, Skill Development Programme
Dr. Gireesh Nadda

For more details kindly scan the QR Code:

Contact us:
Phone: +91-1894-233339- (Ext.) 346
Fax : +91-1894-230433
E-mail : skillihbt@ihbt.res.in
Website: www.ihbt.res.in

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

SKILLING PARTNERS OF CSIR-IITR

FRESH/ UP/ RE-SKILL YOURSELF WITH CSIR-IITR TO REALIZE YOUR DREAM CAREER IN INDUSTRY /ACADEMIA

KAUSHAL BHARAT, KUSHAL BHARAT

CSIR–Integrated Skill Initiative

CALENDAR OF WORKSHOP / TRAINING PROGRAMS 2024-2025

सीएसआईआर - भारतीय विषविज्ञान अनुसंधान संस्थान
CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH
IITR-CSIR Lucknow

Essential Techniques and Biosafety in Microbiological Research Laboratory
Date: 20.08.24 - 23.08.24 (04 days)
Eligibility: B.Sc. (Biological Sciences)
Course Fee : For Academia: Rs.2500/-
For industry: Rs.5000/-
Course Coordinator: Dr. Manoj Kumar

Soil & Water Testing Lab Assistant (AGR/Q8102)
Date: 27.08.24 - 30.09.24 (05 weeks)
Eligibility: 10+2 Standard Pass (with science/agriculture subjects), Preferably
Course Fee : For Academia: Rs.2000/-
For industry: Rs.5000/-
Course Coordinators: Dr. Nasreen Ghazi Ansari, Dr. S. Patnaik

SEPTEMBER 2024

Training on General Requirements for the Competence of Testing and Calibration Laboratories -ISO/IEC 17025:2017 [Awareness Initiative Course]
Date: 03.09.24 - 04.09.24 (02 days)
Eligibility: B.Sc./ B.Pharma/B.Tech or young entrepreneurs from any discipline(s)
Course Fee : For Academia: Rs 1000/-
For industry: Rs.2000/-
Course Coordinator: Dr. V.P. Sharma, Dr. Rachana Kumar, Dr. D.K. Patel

Workshop on 'Comet assay'
Date: 06.09.24
Eligibility: M.Sc.
Course Fee : For Academia: Rs. 1500/-
For industry: Rs. 2500/-
Course Coordinator: Dr Alok K Pandey

Predictive Software and Statistical Techniques for Impact Assessment of Atmospheric Pollution and Source Apportionment – Hands-on Training
Date: 11.09.24 - 13.09.24 (03 Days)
Eligibility: B.Tech / M.Tech in Environmental/ Civil/Chemical/ Mechanical Engineering Or M.Sc. in Environment/ Chemistry/ Physics Mathematics/ Statistics/ Computer Sc.
Course Fee : For Academia: Rs.3000/-
For industry: Rs.6000/-
Course Coordinators: Dr B. Sreekanth, Er A H Khan

Hands-on training: Handling and maintenance of C. elegans
Date: 23.09.24 - 24.09.24 (02 days)
Eligibility: M.Sc.
Course Fee : For Academia: Rs. 2500/-
For industry: Rs. 5000/-
Course Coordinators: Dr. Aruna Satish, Dr. Ravi Ram Kristipati

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CSIR-Indian Institute of Chemical Biology, Kolkata

IICB

Skill Development Programs of CSIR-IICB Under CSIR-Integrated Skill Initiative

CSIR-Indian Institute of Chemical Biology (CSIR- IICB), Kolkata, is one of the premier biomedical research laboratories in India under the umbrella of Council of Scientific and Industrial Research (CSIR). CSIR-IICB has started the CSIR-Integrated Skill Initiative program under the aegis of " Skill India" mission of Government of India by offering number of skill development courses. The courses are aimed at enabling the unskilled Chemical and Biological Science graduates and postgraduates to acquire necessary skills to become highly skilled workforce in India.

Offered training Courses
- Clinical Biochemistry, Microbiology, and Pathology Techniques for Biomedical applications
- Advanced Bioinformatics
- High-end equipments for clinical applications-Flow Cytometry
- High-end equipments for clinical applications-Optical Microscopy
- Separation Techniques (Organic molecules)
- High Performance Liquid Chromatography
- X-Ray Crystallography-Protein
- X-Ray Crystallography-Small molecules
- Molecular Cloning,Protein Expression and Structural Characterization
- Real time RT-PCR
- NMR Spectroscopy
- Gas Chromatography – Mass Spectrometry
- Liquid Chromatography – Mass Spectrometry
- Techniques for 3D structure reconstruction from Cryo EM dataset of biological samples

HIGHLIGHTS
- Scientific skill enabled training to maximise competency development and technically inclined with certifications and hands-on experience.
- Training with high end R&D laboratory by expert faculty members.
- Both Theoretical and Practical Session (as per the course curriculum)
- Small group for individual attention
- Evaluation based on Theory and Practical
- Theoretical Session through Webinar

Important Details
- Online Application: : 29th July to 17th Aug 2024(5pm)
- Course Fee: Rs 5000/- to Rs 6,000/- (Inclusive of GST) (as per course chosen by candidate)
- Training Session Duration:
  For RTPCR: 01 week (09th Sept to 13th Sept 2024)
  For Other Courses: 2 weeks (02nd Sept to 13th Sept 2024) excluding Saturdays & Sundays
- Qualification: UG or PG (in any branch of Science/Technology/Pharmacy)(Pursuing/ Completed degree) (as per course chosen by candidate)
- For selected candidates only : Submission of Course fee by bank transfer from 23rd Aug to 27th Aug 2024
- For waiting candidates (if declared): Submission of Course fee by bank transfer from 28th Aug to 30th Aug 2024
- No accommodation will be provided
- Non-refundable fees once paid
- Refunds to the enrolled candidates will be made by the institute in case of cancellation of the course due to low batch strength

- Candidates interested in the above course(s) need to apply through online (https://iicb.res.in/sdp)
- For admission –Besides educational eligibility requirements,Candidate must have received atleast single dose of COVID vaccine approved by Govt of INDIA
- Necessary permission should be provided by Employer/Director/Manager/CEO/Principal/DEAN/HOD (wherever applicable) in the prescribed format (Available in website).
- Candidates will not be provided TA/DA for participation in the courses.
- Selected participants have to make payment by Online Transfer through payment portal provided at website.
- For other queries, please send email to artigrover@iicb.res.in or call at 03324995915

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

04

Poster 1 (top left)

**WORKSHOP ON
ESSENTIAL TECHNIQUES AND BIOSAFETY IN
MICROBIOLOGY RESEARCH LABORATORY**

Learnings-

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

Venue
CSIR- IITR
M. G. Marg, Lucknow

- **Eligibility:**-B.Sc. (Biological Sciences)
- **Course Fee:**-
  For academia- Rs.2500/-
  For industry- Rs.5000/-
- **Last date of registration:**-
  15.08.2024
- **Time :**- 9:00 AM–5:30 PM

Date:–20.08.2024–23.08.204

COURSE COORDINATORS

Dr. Manoj Kumar

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

scan /click here to register

Share

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

STUDENT COORDINATORS
Monika Yadav - 7905199463
Sadiya Zafar - 9838608758

Dr. Ravi Ram Kristipati (Nodal Scientist)- 9307449236

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

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

Poster 2 (top right)

Instruments and Techniques for Sampling, Monitoring, and Analysis of Environmental and Industrial 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: 28.08.24 - 30.08.24 (3 days)

-TIME: 10:00 AM ONWARDS

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

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

-*LAST DATE OF REGISTRATION: 23.08.24

CLICK/SCAN HERE TO REGISTER

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

STUDENT COORDINATORS
Monika Yadav - 7905199463
Sadiya Zafar - 9838608758

Dr. Ravi Ram Kristipati (Nodal Scientist)- 9307449236

COURSE COORDINATORS
Dr. B. Sreekanth
Er. A. H. Khan

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

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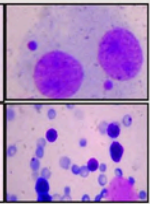
CSIR- Indian Institute Of Toxicology Research, CRK Campus, Gheru, Lucknow- 226401

Poster 3 (bottom left)
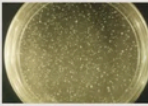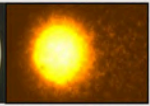
Workshop on Genotoxicity

Learn with us:-

- Basic Principles of Genotoxicity
- Micronucleus Assay
- Bacterial Mutation Assay
- Single-Cell Gel Electrophoresis
- Chromosomal Aberration Test

- **Date:**-22.08.2024
- **Eligibility:**-M.Sc
- **Course Fee:**-
  For academia-Rs.1000/-
  For industry- Rs.2000/-
- **Last Date of Registration:** 18.08.2024

scan /click here to register

Certificates will be provided to all participants

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

Course Coordinator:
Dr. Alok K. Pandey
Senior Principal Scientist

VENUE
CSIR-IITR
M.G Marg, Lucknow

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

*Course fee is only for imparting training. Additionally, wherever applicable, candidates have to make their own arrangements (related to lodging/boarding, travel, local transportation, etc.) and bear those expenses on their own. The fee once paid is not refunded, unless the course is canceled.

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

Poster 4 (bottom right)

DIDAC INDIA

Witness the Pinnacle of Education Innovation!

18 - 20 Sep 2024

Yashobhoomi (India International Convention & Expo Centre),
New Delhi

REGISTER NOW

Asia's Largest Exhibition For The Education And Skills Sector

CSIR – Human Resource Development Centre, Ghaziabad
(Skill Nodal Office)
सीएसआईआर - मानव संसाधन विकास केंद्र, गाजियाबाद
(कौशल नोडल कार्यालय)

05

These centres are bridging skills gap for jobs at home and abroad

On Offer: 2-Month Lessons In German And Japanese Languages To Free Courses On Beauty And Wellness

Manash Pratap Gohain & Surojit Gupta | TNN

It's early morning and a group of women are gathered inside a classroom in Greater Noida, furiously taking down notes as their instructor explains nuances of the German language.

These women, who have trained and worked as nurses, are learning the language to get jobs in Germany, which has a shortage of caregivers and has turned to India to fill the gap.

One of those learning the right way to communicate in German is Akhila Sathessan, a 2018 nursing graduate. "I was looking for better opportunities and heard about this institute. We are now undergoing a two-month residential programme to learn the language and I'm looking forward to working in Germany," she says.

Rising Demand

The international arm of National Skill Development Corporation (NSDC) is training young men and women for jobs available not just in Germany but countries such as Romania, Finland, Russia, Saudi Arabia, UAE and others as well. In the past year, NSDC has placed nearly 40,000 young men and women in Japan, Germany, Israel, UK, Bahrain and Saudi Arabia.

Demand from overseas is rising rapidly. The attraction of better wages and working conditions and the promise of a new life is prompting many to opt for foreign language and skill development courses.

The centre in Greater Noida offers residential training in Japanese and German languages. While the Japanese batch has 11 boys and 8 girls, the two German batches consist of 22 and 26 girls. NSDC provides free accommodation and food. Students need to pay a fee of around Rs 75,000, but that is deducted from their pay in the second month off their job. Not just training, the institute hand holds students through the

process of landing a job and completing their visa and other paperwork.

Skills Gap

India itself faces a huge shortage of trained and skilled workers. Govt estimates show that only 2.3% of the workforce has undergone any formal training. This is way below global standards — the share stands at 68% in UK, 75% in Germany, 52% in US, 80% in Japan and 96% in South Korea.

Skilling and upskilling are key components of the strategy to tackle the huge problem of unemployment and underemployment in India. Studies have shown that a vast majority of youths joining the workforce are unemployable as they lack skills required by industry. Experts say India needs to urgently fill the skills gap to reap its demographic dividend and boost economic growth.

International Monetary Fund (IMF) says India needs to create between 143 and 324 million jobs by 2050. A small shift in jobs away from agriculture and into either construction and services or manufacturing can boost GDP growth by 6.2-0.5 percentage points, it adds.

"Our current focus is to reach candidates wherever they are located, instead of making them come to us. Last year, we started 10,000 skill centres in schools across the country. One reason for unemployment is that we're educated with unemployable skills," says Ved Mani Tiwari, CEO of National Skill Development Corporation (NSDC) and MD-CEO of NSDC International (NSDCI).

"Next, our focus will be on apprenticeship and on-the-job learning, which have yielded good outcomes with an over 70% conversion rate for us," said Tiwari.

Empowering Women

A short distance away from Greater Noida, National Skill Training

Institute (W) for women is trying to bridge the skills gap. With a yearly intake of 750 students, this institute offers free courses for jobs in apparel, beauty and wellness, electronics, construction and architecture sectors. The institute also has an AI training centre. Soon, courses will be offered on handling drones.

Students come from underprivileged backgrounds and are a mix of school dropouts and those who have completed Class XII. They are provided accommodation and food on campus.

"I want to be an ITI instructor. I have undergone training in computers, and office work," says Ranju Jaiswal, who is training as

a computer operator and processing assistant.

Apprenticeship The Answer

Industrial Training Institutes (ITIs) are playing their part in filling the skills gap. One such centre is the ITI at Pusa in Delhi. It is well equipped labs with several of them set up by reputed firms in areas such as refrigeration, servicing of electrical appliances and automobiles, etc. Authorities at the institute say the demand for trained students remains robust. Most students find placement in jobs that pay about Rs 16,000-Rs 20,000 per month, they say.

"I've already got a job in the electric meter testing department of a company," says Abhishek Shukla, who wants to become an engineer and enrol in a polytechnic. His story highlights the struggle of millions of youths entering the workforce. Shukla, who speaks fluent English, lost his father in 2008 and his education was funded by the principal of the school where his mother works as office staff.

Professors and trainers at the institute said apprenticeship is the way forward to raise employability among youths enrolled at such centres. They also called for industry to play a larger role in absorbing skilled workers. Rising job processes overseas for trained professionals is also encouraging more youths to opt for such courses.

"We need to focus on the contractual workforce, which is basically in the unorganised sector. It's a myth that big corporations will create employment. It's the MSMEs, for which we have 700-plus upskilling and reskilling courses, says NSDC's Tiwari.

"We've onboarded around 25,000 firms that are offering apprenticeships to around 1.75 lakh students from NSDC. The job conversion rate is around 70-80%. Last year, we had 10 lakh apprenticeships with job conversion of around 8 lakh," says Tiwari.

LEARN NEW SKILLS, EARN A LIVING: Trainees at National Skill Training Institute centres learn (clockwise) sewing, robotics, beauty treatment, and white goods repairs

THE JOBS REPORT

- **Over 1cr** job-seekers trained every year
- **...Of which, close to 10 lakh found** apprenticeships in 2023-24...
- **...With Maha the top state...**

Maharashtra	2,63,188
Tamil Nadu	1,01,501
Gujarat	83,741
Karnataka	78,448
Uttar Pradesh	71,446

Annual number of apprentices enrolled, all India

Apprentices enrolled, top 5 states, 2023-24

- **...And a small number landing jobs abroad**

Country	Placements	Country	Placements
Saudi Arabia	37,124	Bahrain	935
Israel	9,926	Kuwait	399
Qatar	3,649	Germany	67
UAE	2,959	Croatia	4
Japan	1,553	Australia	2
UK	1,474	Uzbekistan	1
Oman	1,094	**Total**	**59,187**

According to the NSDC database, over **6.5 lakh jobs** in different fields are available

Source: NSDC

स्किल इंडिया मिशन के प्रशिक्षण प्राप्त प्रशिक्षुओं और लाभार्थियों का किया गया सम्मान

लखनऊ। भारत सरकार के कौशल विकास एवं उद्यमिता मंत्रालय (एमएसडीई) द्वारा राजधानी में स्किल इंडिया मिशन के तहत प्रशिक्षण प्राप्त कर तेजगत प्राप्त करने वाले युवक युवतियों को अन्य लोगों को प्रेरित करने के लिए करें प्रेरित : श्री जयंत चौधरी

1000 ITI कॉलेजों को किया जाएगा अपग्रेड : जयंत

कहा- राज्य सरकारें इंडस्ट्री के साथ साझेदारी कर तलाशें रोजगार के अवसर

लखनऊ (एसएनबी)। केंद्रीय कौशल विकास एवं उद्यमिता मंत्रालय (स्वतंत्र प्रभार) और शिक्षा राज्यमंत्री जयंत चौधरी ने कहा कि प्रशिक्षित कॉलेजों का निरीक्षण करें इंडस्ट्री के साथ साझेदारी कर रोजगार के अवसर तलाशें।

'Industry role in upgrading ITIs is to be measured in quantifiable terms'

The Skill Ministry will lead government's efforts to upgrade 1,000 Industrial Training Institutes (ITIs) in a hub and spoke model under a centrally sponsored scheme with an outlay of ₹60,000 crore. Secretary to the Ministry of Skill Development and Entrepreneurship **ATUL KUMAR TIWARI** explains the idea behind the scheme and the challenges ahead in an interview with **Shiva Rajora** and **Asit Ranjan Mishra** in New Delhi. Edited excerpts:

The Budget has turned the spotlight on skill development as a tool for employment generation, with the FM's emphasis on upgrading 1,000 Industrial Training Institutes (ITIs). Your assessment?
The Union Budget has brought back the focus on ITIs, which have been the foundation of the long-term skill training in the country. With the changing times, the ITIs need an upgrade. We also have to break the conundrum wherein states are incentivised [to improve the ITIs]. This scheme shows the central government's thrust on skilling and highlights the role industry and states have to play in this regard.

What will the modalities of this scheme be? Has the ministry prepared a blueprint for the same?
Our ministry is planning to undertake one-on-one consultations with industry associations in key sectors. For example, [with] Tata Projects, L&T, Credai for the construction sector, green energy, textiles and garments, advanced manufacturing, heavy engineering, automobiles, process industry, electronics, and telecom. These consultations will be essential for the synthesis of the scheme to ensure optimum funding, improve state and

industry participation, and prepare detailed guidelines. A state government will also be consulted extensively over the coming weeks to seek inputs. There will be 200 ITIs developed as hubs, while 800 will be developed as spokes, connected with five National Skill Training Institutes.

Previously, there were attempts to improve ITIs. How is this new programme different?
This scheme will adopt a challenging method for selecting ITIs, ensuring state participation, industry collaboration, and an outcome-driven implementation strategy, making it distinct from previous efforts. The financial assistance provided under various schemes in the past was suboptimal to cover the entire upgrade

needs of the ITIs to meet growing investment needs for infrastructure upkeep, capacity expansion, and the introduction of capital-intensive new age trades. For the first time, the role of industry will be measured in quantifiable terms and will help the ITIs.

Has the industry agreed to pay ₹10,000 crore share in the scheme? Will this money come from CSR funds? If not and this is voluntary, then the industry may choose not to participate.
The industry has been helping state governments in modernising ITIs. This scheme will provide a kind of framework wherein the three stakeholders (centre, states and industry) will be roped in. Some sectors, which have enhanced the demand for skilled workers like textiles, construction, telecom, and automobiles, will try to bring industries in as a cluster-based format and develop the course and curriculum in tandem with their demand.

The [₹10,000 crore] component will come from industry. We are not saying it is CSR or anything, it has to come from the industry, like the Tata group carved out a separate company, which is running two skills schools — one in Mumbai and the other in Ahmedabad. It doesn't mention CSR, but goes beyond it. The industry has to come in suitable ways to help us. We hope that more entities will come. We have created a framework in which we will have to work and create a win-win situation and incentives for the industry to come forward and collaborate and improve the situation in ITIs.

When do you expect the guidelines to be finalised?
The Budget lays out the broad contours of the scheme. We just have to link them

together. We are already having consultations with stakeholders. By the end of September, the guidelines are expected to be finalised.

With the announcement of the internship scheme in the Union Budget, what happens to the apprenticeship programme?
Internship is not apprenticeship. Apprenticeship programmes will continue and the data shows positive growth in the uptake of apprentices in the companies. It is regulated and obligatory under the Apprenticeship Act 1961, which puts the onus on the firms to hire apprentices, while internship is voluntary by nature.

The Budget also announced the model skill loan scheme. Given that such a scheme was already in place. How is the new scheme different from the previous scheme?
Some skilling programmes are expensive and this scheme will help facilitate students to avail easy financing for these programmes. The revised scheme will facilitate loans up to ₹7,50,000 compared to ₹1,50,000 earlier, and will cover courses other than those aligned to the National Skill Qualifications Framework, provided the courses are available on the Skill India Digital Hub portal. The new credit guarantee scheme has now been extended to non-banking financial companies, microfinance institutions, and small finance banks.

that redesigning courses to align with industry requirements under the scheme will enhance their appeal and boost enrolment.

Vacancies in ITIs — both in terms of students and faculty — are causes for concern. How will this scheme look to improve upon this aspect? What will be the role of state governments and industry?
Filling the posts of instructors is an administrative matter for the respective state governments. Under the scheme, the recruitment of instructors and the provisions in the Budget by state governments would be a necessary condition for the release of grant-in-aid.
Support from the industry for course design, trainers, and machinery will be worked out and it also provides for capacity augmentation of the five National Skill Training Institutes, which will support the training of ITI trainers. A further provision for pre-service and in-service training for 50,000 individuals will also be included under the scheme. It is anticipated

> **WE ARE ALREADY HAVING CONSULTATIONS WITH STAKEHOLDERS. THE [ITI UPGRADE SCHEME] GUIDELINES ARE EXPECTED TO BE FINALISED BY SEPTEMBER-END**

> **INTERNSHIP IS NOT APPRENTICESHIP. APPRENTICESHIP PROGRAMMES WILL CONTINUE AND DATA SHOWS A POSITIVE GROWTH IN THE UPTAKE OF APPRENTICES IN THE FIRMS"**

ATUL KUMAR TIWARI, Secretary, Ministry of Skill Development & Entrepreneurship

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PILOT PROJECT IN SEPT; STATE-WIDE FROM JAN

Andhra Plans Skill, Industry Census to Map Labour Profile

Social and economic details of over 1.6 cr households will be collated, cleaned up

Nidhi Sharma

New Delhi: In a bid to deliver the poll promise of providing 20 lakh jobs in five years, N Chandrababu Naidu-led Andhra Pradesh government is set to initiate the first-ever skill and industry census to gauge the state's labour force profile and create linkages between the unemployed youth and industry.

The state-wide census will capture the demography with social and economic details of over 1.6 crore households. The exercise would be first initiated through a pilot project in one mandal (smallest administrative unit) and one educational institution towards the end of September.

After the data is collected and cleaned up, the state government will initiate a state-wide census in January 2025. A highly-placed state government source told ET, "The census will take about 12 months. After this, the data will be cleaned and collated."

The exercise will be conducted by the skill development and training department. It is training 40,000 enumerators who will go door-to-door and capture data points on hand-held devices and upload on a common portal.

The enumerators will collect details like name, date of birth, Aadhaar, biometrics, marital status, disabilities (if any), religion, caste, sub-caste, financial category (above or below poverty line), access to smart phone and internet, level of literacy (high school education or drop out or educational specialisation), job status and work experience.

One of the key data points that the government wants to collect is entrepreneurial knowledge and aspiration. The census will have specific questions on desired career path, primary factors influencing career choice, aspiration to set up business, interest and sector of self-employment, access to capital and the willingness to migrate or change domain and industry.

Enumerators will collect details like religion, caste, sub-caste, fin category among others

While the training department will conduct the skill census, the industries department will lead the industries survey. This will capture details of what kind of human resource is available to the industries and what else is required.

The source quoted earlier said, "This will help the state government in gauging the gap between the skilled labour available and the type that is required. The two surveys will help in providing linkages between skilled unemployed persons and the industry."

If Looks Could Skill, India Can Get Global

Companies are widening their leadership funnel by investing in CXO retraining to deliver on India's growth prospects and reduce management churn. This is good business. Indian companies will have to grow much faster to make India a global manufacturing base. Critically, as markets for Indian goods and services expand, managers must be brought up to speed on skills that are required in the global marketplace. This has two positive effects. First, it widens the managerial bandwidth for entrepreneurship. Second, it allows companies to attain the necessary managerial diversity.

Since companies are proactive about attaining competitiveness, their skilling initiatives are unlikely to be restricted to top brass. The requirements are more intense at the bottom entry layer, and GoI has begun incentivising them. If India Inc. acquires a global scale, its manpower requirements should grow in step. Companies need to implement more aggressive skilling programmes to compensate for the gaps in educational outcomes. Industry must work closer with academic institutions to make the young workforce more employable. This is predicated on the growth the current managerial talent pool can deliver in a global marketplace.

Pushing employment ahead of scale is a bit like redistributing wealth before it is created. It leads to a loss of competitiveness, and companies are best placed to decide on their manpower and skill requirements. Incentives can play a limited and time-bound role here. The sustainable solution to India's employment issue is faster business growth. Since employment is more intensive in small enterprises, policy should prioritise their growth. This segment also needs external assistance to close the skills gap.

CSIR – Human Resource Development Centre, Ghaziabad
(Skill Nodal Office)
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(कौशल नोडल कार्यालय)

06

(Please click on the link to view the details)

- **Skill India Digital Hub Launched to Enhance Skilling Ecosystem**

- **Brigade Foundation aims to better lives of unemployed**

- **Andhra Pradesh to partner with Google and YouTube in digital advancement**

- **Ministry of Skill Development Implements STRIVE Project to Enhance Industrial Skills**

- **1.48 Crore Youths Upskilled under Skill India Mission: Study**

- **Ministry of Skill Development Expands Craftsmen Training Scheme Nationwide**

- **PMKVY Provides Skill Development Training through Short-Term Courses**

- **Canon India Strengthens Commitment to Skill India: Launches Skill Development Centres to Enhance Youth Employment**

- **Gujarat International Finance Tec-City (GIFT City) and the National Forensic Sciences University (NFS U) join hands for skill development**

- **Empowering the Indian Handloom Sector with Skills, Education and Technology**

- **Brigade Foundation And Bcic Inaugurate Brigade- Bcic Skill Development Academy**

- **Initiatives to promote skill development training through use of Information Technology**

- **Newly Rationalized NSQF Framework Promotes Lifelong Learning and Skill Development Across Multiple Sectors**

- **Digital Hub Under Skill India Initiative Aims to Streamline Skilling and Entrepreneurship Programs**

- **Scope Global Skills University (SGSU) Work-Integrated Learning Programs (WILP): Aligning Education with Industry Needs**

- **Youth Internship Programme Aims to Skill One Crore Youth in Five Years**

- **The Ultimate Guide to Setting up a Skill Training Center in India**

- **Andhra Pradesh to launch India's first ever 'Skill Census' soon, says IT Minister Nara Lokesh**

- **Skill Up: India's youth is on the rise and their challenges needs to be addressed**

- **Comprehensive Skill Development can Create Adequate Manpower for India's Aviation Expansion," Says Sky One Group Chairman Jaideep Mirchandani**

- **Rodic Consultants Reaffirms Commitment To Youth Empowerment With Strategic Skill Development Initiative On World Youth Day**

- **Maruti Suzuki upskills over 12,000 ITI students in ambitious FY24 training drive**

- **Hindu College launches pioneering Green Hydrogen Training Program n collaboration with the Hydrocarbon Sector Skill Council(HSSC) and MSDE**

- **Furniture and Fittings Skill Council announces major skill development projects**

- **Physics Wallah(PW) Skills launch School of Healthcare across five cities in India**

- **Assam CM Himanta Biswa Sarma launches 'Nijut Moina Scheme' to boost girls' education and combat child marriage**

- **Skill Development Minister Jayant Chaudhary Highlights AI's Role in Reimagining ITIs**

- **NSDC, Sompo Care Partner to Train Indian Nurses for Japan**

- **World Bank, Telangana govt discuss partnerships in skill development, Net Zero**

- **International Youth Day puts South Asia's skills gap in sharp focus**

- **TeamLease Degree Apprenticeship Aims to Equip 2 Million Youth with Apprenticeship Training by 2028**

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FEEDBACK
प्रतिक्रिया

I regular read "CSIR Skill Bulletin". My good wishes to entire team for their efforts and hard work on this project.

Thanks & Regards,

Mahender Singh
CSIR- Award Section
CSIR Complex , New Delhi

CSIR – Human Resource Development Centre, Ghaziabad
(Skill Nodal Office)
सीएसआईआर - मानव संसाधन विकास केंद्र, गाजियाबाद
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Sector -19, Central Govt. Enclave, Kamla Nehru Nagar Ghaziabad- 201002 (UP) India	सेक्टर -19, केंद्र सरकार एन्क्लेव, कमला नेहरू नगर गाजियाबाद- 201002 (यूपी) भारत
e-mail: head[at]csirhrdc[dot]res[dot]in Tele-Ph.: +91-120-2788940/2785053	ई-मेल: head[at]csirhrdc[dot]res[dot]in टेली-फ़ोन: +91-120-2788940/2785053

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