



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

Editorial Team

- Dr Vinay Kumar
- Ms Neeti Sagar
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- Dr Durgavati Yadav
- Mr Pradeep Kr Sharma
- Ms Sindhu Gupta

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- Skill Trainings by CSIR
- Nodal office Updates
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- News Clippings
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SKILLING/UPSKILLING TRAINING PROGRAMS BY CSIR

सीएसआईआर द्वारा स्किलिंग/अपस्किलिंग प्रशिक्षण कार्यक्रम

CSIR-CBRI, Roorkee organized a training program on "Earthquake Resistant Construction in H.P." from Sept 2nd-6th, 2024 for Engineers of H.P. In this program 38 participants from various districts of Himachal Pradesh participated.



CSIR-CECRI, Karaikudi organized a One-week Training Program on "Operation and Maintenance of Analytical Instruments" from 2nd - 6th September 2024. This program was attended by 41 student participants by covering two states of India (Karnataka & from different parts of Tamil Nadu).



CSIR-CSIO, Chandigarh organized a Five-day workshop on "Spectroscopy and Chromatography Techniques" from 2nd-6th September 2024. 35 participants joined the training from all over India like IITs, Industry representatives, Researchers, Startups, Students. The event featured hands-on sessions on HPLC, GC, IC, UV-Vis, FTIR, Raman Spectroscopy etc.



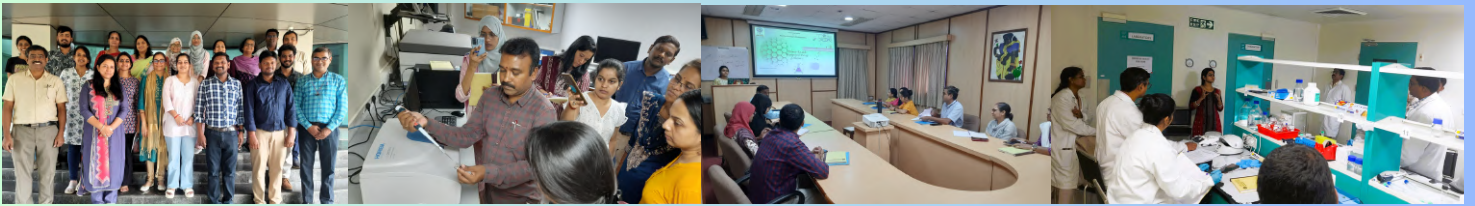
CSIR-CMERI, Durgapur is organizing a Four-week training program titled "Hands-on Training on Scientific Instrument Usage for Performance Evaluation of Agricultural Machinery & Implements" from 2nd-27th September 2024, under the Industrial Attachment Students Ready Program. 3rd Year BTech students of Agricultural Engineering, Haldia Institute of Technology are participating.



CSIR-NEERI, Nagpur organized a training program on "Energy, Environment & Resources: Monitoring, Control and Management Options" from 3rd-4th, September 2024. Participants from rural and urban areas of many states (Madhya Pradesh, Chhattisgarh, Maharashtra, Uttar Pradesh, Uttarakhand, Gujarat, Tamil Nadu, Kerala, and Karnataka) of different organizations had participated in the training program comprising technical presentations, visit to Emissions Monitoring Laboratory and demonstration of Drone-Sensor-AI based air quality monitoring.



CSIR-CCMB, Hyderabad organized a program on "Nanotechnology and Bio diagnostics" from 5th-9th August 2024. 13 participants, including Scientists, Professors, and PhD scholars were benefited. This training program was on utilizing Nanotechnology in research, understanding Nanoparticle synthesis, Characterization, and Bio-conjugation techniques. This training allows them to develop innovative experimental approaches, leading to more precise and effective solutions in fields like Drug delivery, Imaging, Biomarker discovery, Nano-bioprobes and Assay development for diagnostics, and therapeutic interventions.



CSIR-CECRI, Karaikudi organized a One-week Training Program on "Electroplating and Metal Finishing" from 9th-13th September 2024. This program provided the latest knowledge & skills in the areas of Electroplating. The program was attended by 34 students from different districts of Tamil Nadu.



CSIR-CGCRI, Kolkata organized a Two-days Training Program on "Instrumental Methods of Characterization & Classical Analysis of Glass, Ceramics & Allied Samples" from 12th-13th September 2024. 27 engineering undergraduate students have participated in this training program.



CSIR-NIO, Goa organized a "Hands on Training on Chromatography Techniques" at Shri Ravi Naik College of Arts and Science, Goa on 23rd August 2024, to introduce students to this essential method in analytical chemistry. The workshop covered Thin layer (TLC), and Column Chromatography. The session included both theoretical presentations and practical hands-on activities. Approx 25 Students had the opportunity to prepare samples and analyze results.



CSIR-IICB, Kolkata organized a 13 parallel programs on -
 1) GCMS 2) LCMS 3) HPLC 4) Advanced Bioinformatics 5) Flow Cytometry 6) RT-PCR 7) Clinical Biochemistry, Microbiology and Pathology Techniques for Biomedical Applications 8) Techniques for 3D structure reconstruction from cryo-electron microscopy dataset of biological samples 9) Molecular Cloning, Protein Expression, and Structural Characterization 10) X-ray crystallography for proteins 11) X-ray crystallography for small molecules 12) Optical Microscopy 13) NMR from 02nd - 13th September 2024. In these programs, 91 trainees successfully completed their training.



CSIR-CCMB, Hyderabad organized a training program on "Genetic and Microbial Monitoring of Animals" from 26th to 31st August 2024. This training program focused on developing practical applications for maintaining animal health with cutting-edge skills related to the genetic and microbial monitoring of animals. Approx. 10 participants get benefitted by this program.



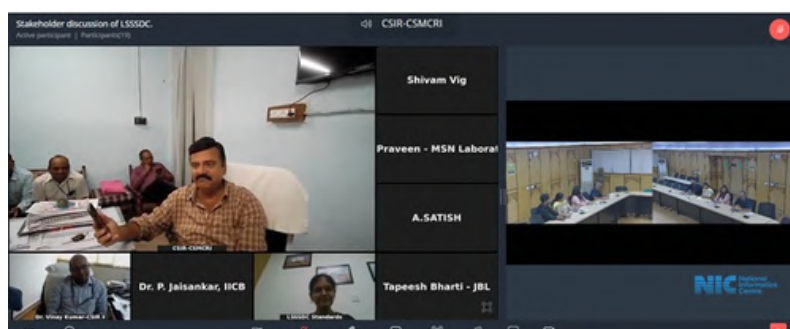
(Please click on the link to view the details)

- **CSIR-IICT, Hyderabad organized a program on “Analytical Skill Development Course (ASDC)” on 2nd September 2024. This course has participants which hail from countries, including Algeria, Botswana, Burkina Faso, Burundi, Costa Rica, Côte d'Ivoire, Ghana, Jordan, Kenya, Malawi, Mauritania, Mauritius, Morocco, Philippines, Sudan, Suriname, Syrian Arab Republic, Togo, Uganda, and Zimbabwe.**
- **CSIR-IITR, Lucknow organized a “DNA Isolation and PCR” workshop from 04th–05th, September 2024. 17 participants from different Universities participated in the workshop. The program included hands-on training for participants, Bacterial DNA Isolation, Polymerase Chain Reaction, and Agarose Gel Electrophoresis.**
- **CSIR-IITR, Lucknow organized a workshop on “Comet Assay” on 06th September 2024. The workshop hosted 16 participants from different Universities and Research institutes. During the workshop, participants had hands-on learning of the technique of Comet Assay. This workshop ended successfully with a Valedictory session and feedback from participants.**
- **CSIR-NIIST, Thiruvananthapuram organized a Five-day training program on "Microalgal Lipidomic: Scaleup and Fame profile by GC-MS" from 27th - 31st August 2024. This program was attended by 20 participants.**
- **CSIR-NEERI, Nagpur organized a Training Program on “Microbial Diversity Assessment through Amplicon Data Analysis” from 10th–12th September 2024 at Hyderabad Zonal Centre. the skill training program comprising technical presentations, Hands-on training on Sequencing data, Taxonomy, Microbial diversity, etc. and software tools related to Amplicon data analysis & Taxonomy analysis.**

NODAL OFFICE UPDATES

नोडल कार्यालय अपडेट

A Stakeholder's meeting on developing the HPLC Module/Course Qualifications was organized on 4th, September 2024, which was commenced at 1500 PM. Nodals Scientists of the following CSIR Labs were present in the meeting: CSIR-IITR, CSIR-IMTECH, CSIR-IICT, CSIR-IICB, CSIR-CDRI, CSIR-NIO, CSIR-CSMCRI, CSIR-IIIM, CSIR-IHBT. Col Santosh Kumar (Director, NCVET) gave following suggestions to include and add it in the HPLC Course Module after hearing them from the nodals. 1) Allow for Food Techs to be eligible for this Course Module. 2) Relevant and other allied subjects also to be included in the Course Module. 3) The qualifying age for this course is to be curtailed down to 18 years instead of 20 years if training program does not involve hazardous activity. He also said that Course modules as to be designed so that there should be subtle differences between academic courses and skilling courses based on NOS.



UPCOMING EVENTS

आगामी आयोजन



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

7	25 th to 27 th September, 2024 (Wednesday to Friday)	CNC Machining	3 Days	20 th September, 2024
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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://www.csio.res.in/Registration>
 - The prior registration to attend the workshop is mandatory. No participant will be allowed to attend the workshop without registration.
 - 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://www.csio.res.in/Registration>
 - Certificates 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. Shantam Bhattacharya Director CSIR-CSIO, Chandigarh	Mr. Narinder Singh Jassal Sr. Principal Scientist & Coordinator CSIR Integrated Skill Initiative
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CSIR-Central Scientific Instruments Organisation,
Sector 30-C, Chandigarh-160030
Phone No: 0172-2657389 Email Id: skill.csiores.in@gmail.com Website: <https://www.csio.res.in>

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>



SKILL DEVELOPMENT PROGRAMME



Remote Sensing and Geographic Information System applications in Environmental Impact Assessment and Management



CSIR-NIIST
THIRUVANANTHAPURAM



CONTACT

PHONE: 0471-2515326

E-mail: sdp@niist.res.in

APPLY ONLINE :

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

IMPORTANT INSTRUCTIONS

- Certificate will be provided after the completion of the course
- It is advisable to attend 3rd and 4th day of training through laptop for hands on land use land cover analysis
- Recording and study material of the demo will be provided to the participants for further reference
- Software installation guidelines and satellite imagery will be sent to the registered participants before the commencement of the course

DATE:

September 23-27, 2024

COURSE FEE:

Rs. 2000/- for students,
Rs. 5000/- for sponsored candidates

COURSE COORDINATORS:

ER. SAURABH SAKHRE
(Senior Scientist, CSIR-NIIST)
saurabh@niist.res.in, 9168078008

SRAVANTH T
(Scientist, CSIR-NIIST)
sravanth@niist.res.in, +91 9581948548

COURSE BENEFIT

Environmental Impact Assessment (EIA) is the study to predict the effect of a proposed activity on the environment. EIA is a decision making tool which compares various alternatives for a project and arrives at one which represents the best combination of economic and environmental cost benefits. Remote sensing and GIS techniques, on the other hand, gaining popularity with recent advancements in geo-spatial techniques, tools and algorithms which finds a wide application in the process of EIA. This course offers an overall understanding of EIA, Remote Sensing, GIS and virtual hands on experience with an open source software for carrying out Land use land cover analysis. This also covers case studies of full scale EIA, impact of development on land, water and micro-climate environment. This course will lead to increased employability of the participants as it blends theoretical, practical as well as applied aspects of the subject.

COURSE OBJECTIVES

- To understand Remote Sensing Technologies
- To achieve hands-on proficiency in GIS Tools and Techniques
- To understand Environmental Impact Assessment (EIA) Framework
- To Integrate Remote Sensing and GIS in Decision-Making
- To provide overview of Case Studies and Practical Applications of RS and GIS

MODE OF TRAINING

Online

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

Training Calendar for the Year 2024-2025

Skill development training

on
Techniques of chemical characterization of glass, ceramic and allied materials

Sl. No.	Title of the course/module	Course details	Schedule	Eligibility	Contact person
1.	Advanced Instrumental Analysis	Advanced Training on Principle and Application of UV-Vis Spectrophotometer, Atomic Absorption Spectrophotometer, ICP-AES and Ion Meter related to characterization of Glass, Ceramic and allied materials.	All 4 days program 23 rd September to 26 th September, 2024 10 th December to 13 th December, 2024 18 th February to 21 st February, 2025	B.Sc/ B. Tech/ M. Sc.	Dr. P.K. Sinha Senior Principal Scientist & Head, Analytical Chemistry Section, Nodal Officer, Skill Development Training Programme Mob: 9432012945 Email: cgcri.skil21@gmail.com psinha@cgcri.res.in
2.	Classical Method of Chemical Analysis	Special Training on Classical Analysis for specific constituents of Glass Ceramic and allied materials like SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, Cr ₂ O ₃ , ZrO ₂ , P ₂ O ₅ , LOI	2 days/ 4 days program 12 th & 13 th September 2024 19 th November to 22 nd November, 2024	B.Sc/ B. Tech/ M. Sc.	Mr. Jyotirmay Sikdar Chief Scientist & Head, AMCCD Mob: 9958327190 Email: cgcri.skil21@gmail.com jyotirmay@cgcri.res.in
3.	Complete Chemical Analysis of Glass	Advanced Training on Complete Chemical Analysis and Related Grading of Different Type of Glass	All 4 days program 21 st January to 24 th January, 2025	B.Sc/ B. Tech/ M. Sc.	Mr. Jyotirmay Sikdar Chief Scientist & Head, AMCCD Mob: 9958327190 Email: cgcri.skil21@gmail.com jyotirmay@cgcri.res.in

Mode of Training: Onsite Training for limited number of students - preferably 12-15 Nos. at CSIR-Central Glass & Ceramic Research Institute, 196 Raja S C Mullick Road, Jadavpur, Kolkata 700032
Registration Free of cost. Please fill up the attached application form and mail to the contact person at least 7 days before.
No TA/DA will be provided to the participants



Two - Days Skill Development Program

On

Instrumental Methods of Characterization & Classical Analysis of Glass, Ceramics & Allied Samples

12th & 13th
September, 2024

Analytical Chemistry Section (AMCCD)

CSIR-Central Glass and Ceramic Research Institute



SKILLING PARTNERS OF CSIR-ICT

ASCI, IITR, LSSSDC, Skill India

IN SERVICE TO HEALTH AND ENVIRONMENTAL SAFETY SINCE 1965

CSIR-Integrated Skill Initiative

CALENDAR OF WORKSHOP/TRAINING PROGRAMS 2024-2025

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

OCTOBER 2024

Workshop on Presentation Skills
 Date: 04.10.24
 Eligibility: Bachelor's degree in any Stream
 Course Fee: For Academia: Rs. 1000/-
 For Industry: Rs. 2000/-
 Course Coordinator: Dr. Ravi Ram Kristipati

Workshop on transmission electron microscopy (TEM)
 Date: 21.10.24 - 25.10.24 (05 days)
 Eligibility: Ph.D. Scholars/ Technical Faculty/Faculty
 Course Fee: For Academia: Rs. 7000/-
 For Industry: Rs. 13000/-
 Course Coordinators: Mr. Jai Shankar, Dr. Alok K Pandey

NOVEMBER 2024

Synthesis and in vitro toxicity analysis of gold nanoparticles using eco-friendly cappings
 Date: 21.11.24 - 22.11.24 (02 Days)
 Eligibility: M.Sc./M.Tech/Ph.D. in life sciences or chemical sciences
 Course Fee: For Academia: Rs. 3000/-
 For Industry: Rs. 5000/-
 Course Coordinators: Dr. R. Raja Gopal, Dr. Pradeep K Sharma

DECEMBER 2024

Instrumentation and chemical analysis (For Chemistry students of LU)
 Date: 16.12.24 - 24.12.24 (08 days)
 Eligibility: M.Sc.
 Course Fee: For Academia: Rs. 1500/-
 Course Coordinators: Dr. Akhilesh K Yadav, Dr. Rachana Kumar

Oxidative and Cellular Stress Assays
 Date: 17.12.24 - 19.12.24 (03 Days)
 Eligibility: M.Sc. in any branch of Life sciences
 Course Fee: For Academia: Rs. 3000/-
 For Industry: Rs. 6000/-
 Course Coordinators: Dr. S. S. Smitha, Ms. Mirat ul Fatima

SKILL DEVELOPMENT PROGRAMME

A WEBINAR ON

Application of Artificial Intelligence (AI) in Advanced Bioprocessing

CSIR-NIIST THIRUVANANTHAPURAM

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

DATE: 27th September 2024

COURSE FEE: Rs. 400/-

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

OBJECTIVE OF THE COURSE:

- The objective of the workshop is to orient the participants in the realm of different machine learning tools in Bioprocess development, modelling and optimization.
- Creating AI pipe lines for Bio Applications

TOPICS COVERED

- Mapping predictors to response in complex bioprocess - Use of artificial neural network in process modelling and optimization - Example case study with workflow
- Experimental design
- Model selection- Multiple linear regression to ANN
- ANN architecture and hyperparameters - tuning using GA
- ANN model development
- Process optimization GA-ANN
- Multi-objective optimization
- Overview of AI pipeline
- Challenges
- AI pipeline in Bio processes

COURSE BENEFIT

- The participants can quickly integrate or re-wire the workflow in their relevant projects.
- Demonstration of the exercise in inhouse code
- offers flexibility and ease of refinements, amendments to specific requirement
- Understand the work-flow of process modelling and its use in dynamic bioprocess optimization
- The participants will understand what is an AI pipeline
- Participants will familiarise the required tools and technologies
- The participants can understand practical

RESOURCE PERSONS:
 Dr. Biswanath Mahanty, M.Tech, PhD
 PhD/IT Guwahati, Postdoc (University of Ulsan, South Korea)
 Associate Professor, Department of Biotechnology, Karunya University

Mr. Rajesh Pillai
 Founder and CEO, Bayesian Ways
 18 years experience in Data Analytics, Machine Learning and Decision Sciences

COURSE COORDINATOR: DR. PINAKI DEY (Senior Scientist, CSIR-NIIST)

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

CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY
 (Under Ministry of Science & Technology, Govt. of India)
 Tarnaka, Uppal Road, Hyderabad - 500007, 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.

SKILL INDIA

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.

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SKILL DEVELOPMENT PROGRAMME

SKILL DEVELOPMENT GROUP CSIR-CECRI

Photolithography based micro-fabrication of sensors <i>Dr. P. Tamilarasan Dr. V. Murugan</i>	21 - 25 October 2024	Bachelor Degree in Science or Engineering sciences
Electrochemical power systems: Lead-acid battery - Care and maintenance <i>Dr. Sundar Mayavan Er. P. Seenichamy</i>	04 - 08 November 2024	10 th / 12 th pass or fail / ITI / Polytechnic / Diploma pass or fail or Bachelor Degree in Science or Engineering sciences
Biosensor: Design and applications <i>Dr. K. Giribabu Dr. M. Pandiaraj</i>	25 - 29 November 2024	Bachelor Degree in Science or Engineering sciences
Solar energy technologies: Fundamentals to device fabrication <i>Dr. A. Pandikumar Dr. P. Murugan</i>	16 - 20 December 2024	Master Degree in Science (preferably in Physics, Chemistry, Material Science/ Nano Technology)

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

Skill India
कौशल भारत - कुशल भारत

IITR

Workshop on Histopathological Techniques & Procedures for Pre-Clinical Studies

September 25-27, 2024 (03 days)

Learnings-

- Role of histopathology in toxicity studies & its basics
- Hands-on training in histopathological techniques and procedures such as gross tissue examination, tissue processing (fixation, dehydration, clearing, and embedding) microtomy (sectioning), staining method (H&E, special stain), slide preparation
- Significance of quality control in histopathological research, including Standard Operation Procedures (SOPs)
- Interpret histopathological slides under the microscope, identifying histopathological changes and accurate documents findings in pre-clinical studies

Key Equipment: Tissue embedding Station, Automated slide stainer, Rotary Microtome, Automatic tissue processor, Digital microscope with image analysis.

Eligibility: B.Pharm, M.Pharm, B.Sc. & M.Sc.

Course Fee: For academia - Rs.3000/- For industry - Rs.5000/-

Last date of registration: 20.09.24

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

COURSE COORDINATORS
Dr. Pankaj R. Jagdale
Dr. Beena Vamadevan

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

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

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

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

Skill India
कौशल भारत - कुशल भारत

IITR

Workshop on Genotoxicity

Learn with us:-

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

Date: -01.10.2024

Eligibility: -M.Sc

Course Fee: - For academia - Rs.1000/- For industry - Rs.2000/-

Last Date of Registration: 23.09.2024

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

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

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

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

Skill India
कौशल भारत - कुशल भारत

75 Azadi Ka Amrit Mahotsav

IITR

CSIR Integrated Skill Initiative Program

Certificate course on Advanced Spectroscopic (NMR, HPLC, LC-MS, UV/IR) Techniques

Duration: 08 Weeks (21st October to 13th December 2024)

Key Features of the Training

- Small batch size for effective training
- Interactive sessions
- Exposure to diverse sample preparation techniques
- About 40% Theory and 60% Practical hands-on sessions as per course curriculum
- Understanding basic principles and instrumentation
- Demonstrations of working of state-of-the-art equipment
- Planning experiments for obtaining meaningful results
- Troubleshooting

Practical: Hands on training on state-of-the-art equipment and interpretation of data

Theory: Basic principles, instrumentation and applications of NMR Spectroscopy (1D and 2D NMR), Mass Spectrometry, HPLC, UV-Vis and FT-IR Spectroscopy

For more details and registration, kindly visit the link: <https://www.cdrires.in/skildevelopment.aspx>

Course Fees: Rs. 15,000/-

Scan QR code

Contact: Dr. Sanjeev Kumar Shukla, Coordinator, Skill Development Programme, CSIR-Central Drug Research Institute, Sec-10, Jankipuram Extension, Sitapur Road, Lucknow 226031 (Uttar Pradesh), E-mail: sdp@cdrires.in

Last Date for Registration: 30th Sept. 2024

Course Coordinator: Dr. Sanjeev K. Shukla (E-mail: skshukla@cdri.res.in)

Skill India
कौशल भारत - कुशल भारत

IITR

Pre-Conference Event to EARTH- 2024

HANDS-ON TRAINING: HANDLING AND MAINTENANCE OF C.elegans

Learnings-

- Learn to culture and handle bacteria and Caenorhabditis elegans
- Observe and identify developmental stages of C. elegans
- Observe human-relevant disease models of C. elegans
- Understand the genotype and phenotype relationship
- Able to identify, handle, and culture C. elegans

Date: -23.09.2024 - 24.09.2024

Eligibility: -M.Sc.

Course Fee: - For academia - Rs.2500/- For industry - Rs.5000/-

Last date of registration: - 18.09.2024

Time: - 9:00 AM - 5:30 PM

Venue: - CSIR-IITR, M. G. Marg, Lucknow

COURSE COORDINATORS
Dr. Aruna Satish
Dr. Ravi Ram Kristipati

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

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

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

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

CBSE gives 3 years to schools to set up Composite Skill Labs

Divyansh Kumar @timesofindia.com

The CBSE is set to introduce 'Composite Skill Labs' in schools aligning with the objectives of NEP 2020 and NCF-SE. The Composite Skill Labs will provide practical skills training aligned with industry needs, enhance employment prospects, enable exploration of diverse career pathways, and foster entrepreneurial capabilities among students.

CBSE has mandated that all affiliated schools establish the Labs in the next three years. Schools are required to either create a single composite lab of 600 sq ft for classes



VI to XII or two separate labs of 400 sq ft each, for classes VI to X and classes XI and XII, respectively. Biswajit Saha, director of Training and Skill Education at CBSE, emphasises, "Promotion of any skill necessitates hands-on activities, which can only be effectively carried out in a lab environment. We are promoting skills such as agriculture, and food processing, alongside modern technologies."

In 2018, Manav Rachna International School, Gurugram introduced Composite Skill Labs for classes VI to XII. Principal Sangeeta Kapoor says the Labs helped in skill-based education among students who represented the school at prestigious events. "These Labs provide students with hands-on experiences in mass media, design thinking, technology, among other areas," Kapoor adds.

Few takers for skill subjects, lack of teacher training flagged at govt schools

VIDHEESHA KUNTAMALLA

NEW DELHI, SEPTEMBER 1

VOCATIONAL AND skill-based subjects are not finding many takers among students in Delhi's government schools, with several reporting low to zero enrolment in these courses. The reason? Lack of appropriate training for teachers and little interest among students, said school officials.

Last month, the Directorate of Education (DoE) issued a show-cause notice to 606 government schools for poor enrolment. "This is a very serious matter as it has resulted in deprivation of benefits of vocational... education to students and under-utilisation of resources."

Directing the schools that had fewer than 20 students enrolled in a particular skill subject, the DoE asked them to "explain the reasons for low enrolment" and the steps being taken to increase figures, and to submit a report to the Vocational Education Branch within 15 days.

The Indian Express found that at least 16 government schools, out of the 606 flagged by the DoE, have zero enrolment of students in vocational courses being offered such as Beauty and Wellness, IT/ITES, Healthcare, Food Production, Travel and Tourism amongst others.

Similarly, courses like automotive, retail, web application, typography saw an enrolment of less than 20 students in several schools.

Vocational subjects were introduced in all schools to impart skill education at the secondary level, along the lines of the National Education Policy (NEP), 2020.

Several teachers and principals The Indian Express spoke to believed that lack of teacher training and awareness about these subjects could lead to poor interest amongst students.

"Although a policy has been made to ensure that students choose these vocational subjects, I believe that the lack of interest starts from the teachers as they are not able to spread the awareness of the importance of these subjects, which is leading to a low number of students opting

for them," Ajay Kumar Choubey, Principal of Sarvodaya Bal Vidyalaya, Rouse Avenue told The Indian Express. "This lack of interest also has to do with the fact that our teachers are not trained enough to take up these subjects, understand and teach them in the classrooms. We need to come up with a system to provide such training to our teachers to ensure optimum enrolment in skill subjects," he added.

In March 2023, the DoE had directed that all students of Classes IX and X must opt for vocational subjects from the 2023-24 academic session. The order read, "In the light of NEP 2020... this policy aims to overcome the social status hierarchy associated with vocational education and requires integration of vocational education programmes into mainstream education in all education institutions in a phased manner. Beginning with vocational exposure at early ages in middle and secondary school, quality vocational education will be integrated smoothly into higher education. It will ensure that every child learns at least one vocation and is exposed to several

more. This would lead to emphasising the dignity of labour and the importance of various vocations involving Indian arts."

At the secondary level — Class IX and X — vocational subjects are offered to students as additional subjects to help them improve their results and pass their classes without the need to sit for a compartment exam. At the senior secondary level — Class XI and XII — these are offered as a compulsory (elective) subject.

In March this year, the Central Board of Secondary Education announced that if a student fails in any of the three main subjects, it could be replaced with the skill subject chosen in the Class X board examination.

A Delhi government school teacher, who wished not to be named, said, "The improvement that we have been seeing in the overall board exam results of government schools is because of the introduction of these vocational subjects. If a student fails in one of the main subjects, the marks of vocational subjects are taken into account. If there is low enrolment of students in these subjects across a certain school, that could be a serious problem."

Govt Is Doing Its Job on Skilling, Now for Industry to Make it Work

Panel with govt and industry representatives discusses ways to harness demographic dividend



Panel with govt and industry representatives discusses ways to harness demographic dividend

CEO Manav Rachna Foundation, according to Twar, since the formation of NSRF in 2011, multiple initiatives have been taken including inter-organisational ramping up, creating a base for India to become the skills capital of the world. He said, however, there is a need for further strengthening of the skill-based migration framework, "International migration of the workforce is assessed by the different neighbourhoods and migration patterns as well. But there is a very important case for that as also happens," he added.

MSRF professionals are no longer talking about degrees alone. He says, "HR professionals are no longer talking about degrees alone. There is some talk about skill-based education, but not competence. I don't see any of these things being done."

Other speakers on the panel were... The government has ramped up operations and infrastructure to meet global demand for skilled workers, said Anil Kumar Twar, secretary, Ministry of Skill Development and Entrepreneurship (MSDE). He said enhanced focus on skilling in the Union budget will be a much-needed thrust to the skilling sector in India. "With two-way integration between education and skilling through the National Education Policy (NEP), I foresee that we will have a lot of time for the industry," Twar said in a panel discussion on Global Skills Agenda for India on September 1.

THE TEACHERS WE NEED FOR THE EDUCATION WE WANT

"What the teacher is, is more important than what he teaches." —Karl Menninger



JAYANT CHAUDHARY, Union Minister of State (with independent charge) for Skill Development and Entrepreneurship, and Minister of State for Education

In a country like India, with its vast education ecosystem and network, teacher education is like a big ship—it is hard to turn by design alone; persistence matters the most. As I reflect on my journey as minister of state for our teachers. Over the past few months, I've had the privilege to interact with many of these educators across the country, hearing first-hand about their journeys, challenges and their unwavering commitment to shaping the future of our nation.

make learning both joyful and meaningful. Most importantly, they will guide students not just in academics, but in life—helping them to become innovators, responsible citizens and compassionate human beings. This is where the National Education Policy (NEP) 2020 comes into the picture. The NEP redefines the teaching profession, emphasising the need for teachers who are not only knowledgeable and skilled but also motivated, compassionate and adaptable. Implemented with care, these changes will ensure that every child has access to quality education, and that our teachers are empowered to become superheroes in their own right.

Whether stationed far from home or ensuring professional or personal hardships, our teachers continue to give their all, facing that no child is left behind. The influence of a teacher on a child's life is deeply felt and profound. Children may not always heed the advice of their parents, but when a teacher speaks, they listen. They remember what their teachers say, sometimes even to their parents with the words, "But my teacher said..." Such is the trust and respect that students place in their educators.

By embracing innovative strategies and adapting to evolving educational landscapes, educators can equip students with the skills necessary for success in an ever-changing world. Policymakers, educational institutions and teachers need to collaborate to ensure a seamless transition towards skill-based learning, empowering the next generation with the competencies needed to thrive both personally and professionally.

In the past, teaching was often about delivering information in a standardised manner, with little room for creativity or individuality. Schools operated like factories, churning out students with the same knowledge and skills. But today, we recognise that education is not just about imparting knowledge; it's about nurturing the child, understanding their unique needs, and helping them develop into well-rounded individuals who can thrive in a complex world. Our curriculum—and consequently the pedagogy—should keep up as the pace of societal change accelerates.

As we look to the future, it's important to remember that AI and other technologies will not replace teachers. Rather, teachers who embrace these tools will replace those who don't. The artists of the blackboard will evolve to become artists of the digital smartboard, shaping young minds with the same care and dedication, but with powerful new tools at their disposal.

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

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- [Visa partners with Ministry of Skill Development to upskill 20,000 youths for tourism industry](#)
- [Bridging skill gaps in a half-hearted manner will not be enough in India](#)
- [Skill development for rural youth: This company aims to train 5,660 candidates](#)
- [NxtWave and NSDC launch SkillUp India 4.0, aims to empower over 30 lakh students](#)
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- [Assam Rifles conducted Skill Development Training in Thoubal, Manipur](#)
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- [Artful Impact: Teacher turns passion into skill development for tribal students](#)
- [Safety of girl students: Skill Development dept issues guidelines for ITIs, mandates self-defence classes](#)
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