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NIELIT

NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY

ISO 9001:2015 CERTIFIED ORGANISATION

An Autonomous Scientific Society of Ministry of Electronics & Information Technology (MeitY), Government of India

NEWSLETTER

HIGHLIGHTS

- NIELIT Organised Digital India #FutureSkills Summit at Guwahati, Assam

- NIELIT's International Conf. on Communication, Electronics and Digital Technologies held

- NIELIT honoured Women Workforce in the Electronics Manufacturing Industry

- Minister of Digital Transformation from Trinidad & Tobago Visited NIELIT HQ

- Ten thousand Certified under NCPUL

- Inauguration of NIELIT Centre at Hyderabad, Telangana & Bikaner, Rajasthan

- MoU signed with ITI EGYPT

EDITOR-IN-CHIEF'S DESK

Dear Readers,

Welcome to this issue of the NIELIT Newsletter. It covers the significance of the first Future Skills Summit that took place in Guwahati on February 15, 2024. The summit brought together esteemed dignitaries, industry leaders, academics, policymakers, and technology enthusiasts. Their discussions centred on strategies for catalyzing future-ready talent for India and the world. Notably, Shri Rajeev Chandrasekhar, former Hon'ble Union Minister for State for Electronics and IT, Skill Development, and Entrepreneurship, Government of India, highlighted the upcoming semiconductor industry units in Assam and Gujarat, collaboration with the TATA Group that will create more job opportunities for youths. Dr. Ranoj Pegu, Hon'ble Minister of Education, Govt. of Assam, shared updates on skilling youths on Industry 4.0 across 77 polytechnics and ITIs.

In this issue, we have news about the 2nd International Conference organised by NIELIT, which took place on February 16-17, 2024, in Guwahati, India. The conference covered the latest research and development in Information, Electronics, and Communication Technologies and related areas. Additionally, there was a panel discussion on potential collaborations with international institutes and industries and possible student and faculty exchange programs.

This issue carries news of several Skilling activities conducted in several forms such as Boot camps, Workshop, Industrial training, Induction rograms, Corporate training, FDPs, Talks, etc. The skilling areas covered in this quarter are AI and ML, IoT, RPA, Robotics, Data Science, Unmanned Aircraft Systems (Drone), Optical Fibre Splicing, Cyber Hygiene and Security, Mobile Technologies, Cyber Shikshaa, Electronic Production Technician, Solar Panel installation, 3-D Printing using Solid Works, Python Programming, awareness on effective farming and marketing, Network Administration and Linux System Administration, e-Granthalaya4.0, Computer application, Accounting and publishing assistant etc.

These activities aimed to provide comprehensive training for a diverse audience comprising college students, teachers, working professionals, farmers, armed forces, Police and CID personnel, among others. Each program was designed to address specific skill requirements and contribute to the holistic development of the participants at multiple locations across India.

NIELIT centres conducted a series of ICT training programs for Scholl Students of Jawahar Navodaya Vidyalaya (JNV) at many cities -Kolhapur, Lawngtlai, Chandigarh, Jalandhar, Bongaigaon, Ganderbal, Anantnag, Baramulla, Ganderbal, Anantnag, and Baramulla, Rajouri, Jammu, Udhampur, Masjid Moth, Nizampur, Almora, Pauri Garhwal, Nainital, Dehradun, Champawat, Tehri Garhwal, Rudra Prayag, Bageshwar, Haridwar and Uttarkashi, PukpuiLunglei, Bagalkot, Dakshina, Dakshina, Chikkaballapur, Chitradurga, Bagalkot, Chikmangaluru, Koppal, Gadag and Mudippu, Jowai, Ambala and in many districts of Arunachal Pradesh, Haryana, Bihar, Rajasthan.

NIELIT's expansion and collaborations were highlighted in this issue. New centers were inaugurated in Bikaner, Hyderabad, Telangana, and Buxar, marking continued growth. Delegates from Trinidad & Tobago visited for potential collaboration, and several MoUs were signed, expanding NIELIT's network and partnerships.

- ITI EGYPT
- DBRAU Delhi
- MPSeDC
- NIT, Calicut
- KELTRON
- ASAP Kerala
- ICT-Academy Kerala
- Ai-Drone Private Ltd
- Shoolini University, Himachal Pradesh
- United Computer, PurbaBardhaman
- Jawahar Navodaya Vidyalaya
- Hartron Gurugram
- Government Polytechnic, Sirsa
- Tezpur College
- Indira Gandhi Govt College, Tezu
- Namdapha Degree College, Miao Changlang

The news featured conferences, dignitaries' campus visits, exhibitions, celebrations, "Startups & Entrepreneurship" news, technical updates, projects, and student and staff publications.

I hope that the readers find the articles informative. I value your feedback and encourage you to share your thoughts at newsletter@nielit.gov.in. Your input is crucial for us to improve and provide you with the most relevant content.

Enjoy reading!
Dr. Yumnam Jayanta Singh,
Executive Director

IMPORTANT EVENTS

NIELIT Organised Digital India #FutureSkills Summit at Guwahati, Assam

The National Institute of Electronics and Information Technology (NIELIT), a premier institution under the MeitY, Govt of India, was pivotal in organizing the ground breaking first-ever Future Skills Summit in Guwahati on February 15, 2024. The Summit witnessed the convergence of esteemed dignitaries, Industry leaders, academia, policymakers and technology enthusiasts to deliberate strategies for Catalyzing future-ready talent for India & the World.

Shri Rajeev Chandrasekhar, Hon'ble Union Minister for State for Electronics and IT, Skill Development and Entrepreneurship emphasized how India's economy has progressed significantly over the past decade, from being a 'fragile 5' to now being ranked as the world's 'top 5' economy. This important milestone, under the leadership of Hon'ble PM Narendra Modi, has unleashed a myriad of opportunities for young Indians, particularly in emerging technology sectors, where India is on the same starting line as the rest of the world, instilling a sense of hope and optimism. He said, "It was because of the leadership of Hon'ble CM Hemanta Biswa Sarma, a semiconductor packaging plant will be established in partnership with the Assam Government and TATA Group. We will soon obtain all approvals and submit it to the cabinet for final approval. Young Indians aspiring to enter the world of semiconductors won't have to leave their state or travel to other cities anymore."

Hon'ble Minister of Education, Govt. of Assam, Dr. Ranoj Pegu said that the Government of Assam has taken many steps for the Digital Skilling of youths in Assam. He said "Projects worth Rs. 1800 crore have been implemented by the Assam Govt. to skill our youths on industry 4.0 across 77 polytechnics and ITIs. Recently an agreement was signed with TATA and also allotted 150-acre land to establish a Semiconductor industry near Guwahati". He interacted with numerous representatives of Start-ups and academia. The summit also organized an exhibition that showcased over 30 innovative future skills, technologies, and solutions.

Discussions revolved around the impact of rapid digitization across the globe, highlighting the emergence of new opportunities for young Indians in next-generation cutting-edge technologies like AI, ML, Semiconductors, Robotics, Cyber Security, etc. These technologies open tremendous opportunities for Young Indians. A pivotal objective is to forge partnerships with industry and academic institutes nationwide, ensuring Curricula align closely with industry demands and standards. Among the key speakers of the summit were Sh. Kuntal Sensarma, Economic Adviser, MeitY, Ms. Jaya Jagadish, Head, AMD India, Shri. Ruchir Dixit, Vice President & Country Manager, Siemens EDA, Shri Lingraju Sawkar, President, Kyndryl India, Shri. Ganesh

Gopalan, CEO and Co-Founder, Gnani.AI, Prof. Subhasis Chaudhuri, Director, IIT Bombay.

The summit facilitated more than 30 strategic collaborations between NIELIT and leading industry players and academia such as Intel, HCL, Microsoft, Kyndryl, IIM Raipur, IIITM Gwalior and Wipro, etc. These collaborations, which aim to bridge the gap between academia and industry, ensuring that educational programs are tailored to meet industry standards and demands, are of significant importance and will have a profound impact. In addition, four engaging panel discussions were held on key themes such as Semicon India, IndiaAI, Cyber Security & Emerging Technologies and Digital India's Talent for the

Global Workforce. Also, many Startups and firms have shown 40 Stalls. On behalf of the NIELIT fraternity, Dr. Yumnam Jayanta Singh, ED of NIELIT Guwahati, highlighted the organization's activities and delivered a vote of thanks.

The 2nd NIELIT's International Conf-on Communication, Electronics and Digital Technologies (NICEDT-2024)

The 2nd International conference organized by the NIELIT, held on 16-17th February 2024 at Guwahati, India, covered the latest research and development in Information, Electronics and Communication Technologies and allied areas along with a panel discussion on potential collaborations with International Institutes and Industries and also possible students and faculty exchange programs. The conference was graced by the presence of distinguished individuals. Sri Mridul Pachani & Dr Saurov Mahanta served as organizing Secretaries, while Dr.Yumnam Jayanta Singh, ED of NIELIT, Guwahati delivered a welcome address on behalf of the NIELIT fraternity. The Guest of Honours included Prof. P.Handique VC, Gauhati University, Shri Dhrubajyoti Borah, ACS, Director of Technical Education, Govt. of Assam, and Chief Guest Prof. Rajeev Ahuja, Director, IIT Ropar & Guwahati. The inaugural session was also attended by Dr. Karel Sterckx, Bangkok University, Prof. Nitin Kumar Tripathi, and Dr.Tanujjal Bora, both from Asian Institute of Technology, Dr. Mani Madhukar, IBM, Prof. Nilanjan Dey, Techno International, and Prof. Amlan Chakrabarti, University of Calcutta.

Notably, the technical sessions witnessed the oral presentation of 80 papers to be published by the prestigious Springer Book Series "Lecture Notes in Networks and Systems," and a few papers were presented as posters and to be published in "The International Journal of Digital Technologies [IJDT]. Prof. Dhurandher, ED, expressed his gratitude towards various individuals and entities during his vote of thanks at the conference. He commenced by extending his appreciation to Prof. M. M. Tripathi, DG, NIELIT, for his unwavering support and guidance, which were instrumental in organizing the conference.

The panel discussion focused on potential collaborations between the government of Assam, international bodies, and industry partners. NIELIT played a crucial role as a liaison, actively facilitating such partnerships. Dr. Karel Sterckx, Bangkok University, shared insights on collaboration models in Thailand and the university's internship program. His emphasis on the importance of international internship programs in exposing students to diverse cultural and engineering perspectives left the audience feeling enlightened. Prof. Nitin Tripathi, AIT, Thailand, proposed a hybrid training model that could significantly contribute to large-scale skill development efforts. His emphasis on the importance of collaboration in India's Act East policy left the audience hopeful about the future. Dr. Mani Madhukar, IBM, offers the courses available at IBM SkillsBuild for the state's youths. Shri Dhrubajyoti Borah, (ACS) Director of Technical Education, Govt. of Assam and Prof. Narendra S Chaudhari, VC of ASTU, Govt of Assam, both expressed their willingness to support this noble cause.

NIELIT honoured Women Workforce in the Electronics Manufacturing Industry

In a remarkable celebration of Republic Day 2024, Prime Minister Shri Narendra Modi invited guests from various fields and ministries to witness the Republic Day parade at Kartavya Path. Approximately 13,000 special guests have been invited to participate, aligning with the Government's vision of Jan Bhagidari, encouraging citizens from all walks of life to actively engage in the national festival. Over 250 women

workers from five prominent companies – Samsung, Wistron, Dixon, Pegatron and VVDN – participated in the Republic Day Celebrations. The presence of these women workers from the electronic manufacturing industry at the Republic Day parade reflects the Government's dedication to inclusivity, diversity, and active citizen participation. To honour and recognize the contribution of the women workforce in the Electronics Manufacturing Industry in India an event was organised by NIELIT under the guidance of MeitY at Dr. Ambedkar International Centre, New Delhi on 27th January, 2024 wherein the Secretary, MeitY, Shri S Krishnan, graced the occasion as the Chief Guest. The other officials present during the event were Dr. M.M Tripathi, DG, NIELIT Dr.Abhilasha Gaur, CEO, ESSCI, Smt. GirijaVedi, SVP, VVDN, and Sh. Subhanshu Tiwari, ED, NIELIT.

The Secretary, MeitY, addressed and interacted with these Women Workers from the Electronics Manufacturing Industry. Addressing the participants during the event, Shri S. Krishnan said "Women exhibit a spectrum of qualities that significantly contribute to the success and dynamism of any industry". He hailed that "Women consistently demonstrate reliability, integrity, and a steadfast commitment to their roles, fostering a sense of dependability within the workplace". The women workers expressed, that they felt extremely honoured and privileged to receive the invitation to the Republic Day celebration at Kartavya Path. Expressing gratitude to Hon'ble Prime Minister Shri Narendra Modi for giving them an opportunity to showcase their achievements to the nation, they said they were overwhelmed by the warm hospitality accorded to them.

The NIELIT has also organized a special training workshop with experts from VVDN, ESSCI, and Microsoft India for the women workers to enhance the skills and knowledge of participants, contributing to the growth of the electronic manufacturing sector in alignment with the goals of the Digital India initiative on topics (i) Expanding ecosystem of electronics manufacturing in India and the world and (ii) How upskilling and reskilling can broaden their expertise and employability - filing talent gap.

Minister of Digital Transformation from Trinidad & Tobago Visited NIELIT HQ

The Hon'ble Minister of Digital Transformation from Trinidad & Tobago, Mr. Hassel Bacchus & the delegation from the Ministry of Digital Transformation of Trinidad & Tobago and iGovTT, the National Information and Communication Technology Company of Trinidad and Tobago visited NIELIT HQ on 23rd January, 2024. Engaging discussions unfolded with Dr. M. M. Tripathi, DG, NIELIT & other officials, paving the way for future collaborations.

## Ten thousands Certified under NCPUL

NIELIT Chandigarh certified 10,117 candidates under the NCPUL (National Council for Promotion of Urdu Language) for one-year "Certificate course in Computer Applications, Business Accounting and Multilingual DTP (CABA-MDTP)" and also registered 12,750 candidates in January under the said course. The course is designed for transformation of Urdu speakers into productive human resource and making them part of the employable technological work force in the emerging Information Technology scenario and penetration of computer

education to grass root level. In the Energy Accounting Division, paper-less and smart meter billing implemented with summarized Payment Modules of Digital Transactions made in different modes.

Conduct of Recruitment Examinations and Processing

NIELIT has been providing Recruitment/Selection solutions to various Govt. Departments (Medical Institutions, Education Department, Police Department, CDAC etc.) under Central Ministry and Govt. Departments of Punjab, Chandigarh and Haryana States. During the quarter from January to March, 2024, six major OMR-based Recruitment exams were conducted for Govt. Departments of Punjab and Chandigarh. Approximately, 80,000 candidates appeared in these exams. The latest technology is effectively used in the implementation and conduct of safe and secure examination.
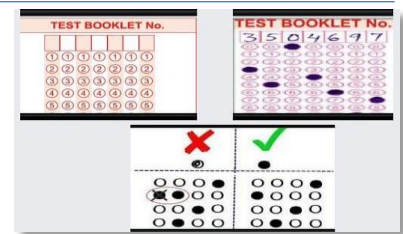
The post-exam activities like preparation of various reports related to examinations like generation of merit lists and various analytical data reports were carried out within stipulated time limits with utmost satisfaction of the user departments. NIELIT is focussing on further identification of technologies in conduct and assessment of examination with involvement of all stakeholders including the organizations requesting the conduct of recruitment examination and various staff deployed for smooth conduct of exam. NIELIT Ropar has developed a Blockchain Based Certification Platform with a user-friendly front end. The certificate will be having a QR code also and it will be stored on the Blockchain. The certificates of the students can be verified by any employer from the Blockchain which is trustworthy and authentic.

INAUGURATION OF CENTRES

NIELIT Bikaner Centre Officially Inaugurated

The NIELIT Bikaner was inaugurated on February 23, 2024, by Shri Arjun Ram Meghwal Hon'ble Member of Parliament from Bikaner, Minister of Law and Justice (Independent Charge), Minister of State for Parliamentary Affairs & Culture Government of India. The objective of the project is to offer diverse courses covering emerging technologies, Digital Competency, NIELIT O/A level programs, as well as summer training/internships and FDPs. The NIELIT Bikaner Centre will be housed across two prominent locations within the city: **Govt. Dungar College, Bikaner:** Situated on the first floor of the drawing & painting block, this facility spans approximately 3240 square feet. It boasts of three state-of-the-art computer labs with a total capacity of 62 students, along with a spacious 35-seater classroom. Govt. Dungar College has provided this built-up space on a rent-free basis for 30 years. **Maharaja Ganga Singh (MGS) University Innovation Center:** Located within the Innovation Centre building of MGS University, this site offers a total built-up area of around 2360 sq. ft. It features six modern classrooms capable of accommodating up to 120 students, complemented by two fully-equipped computer labs with a combined capacity of 100 students. The budget outlay of the project is Rs. 705.60 Lakh. The project sets a training target of 1999 candidates over the course of three years.

Inauguration of NIELIT Centre at Hyderabad, Telangana

NIELIT Hyderabad Centre was inaugurated by Shri G. Kishan Reddy, Hon'ble Union Minister for Tourism, Culture, and Development of North Eastern Region, on the 13th of March 2024. MeitY, Govt of India granted administrative approval for the project title "Setting up of NIELIT Centre at Hyderabad, Telangana", with a total budget outlay of Rs. 474.26 lakhs having a total training target of 2200 over a period of 03 years. The Centre is being established on a rent-free built-up space of appx. 11,000 sq. ft provided by the Telangana State Govt. in Ashoka Raghupathi Chambers, Begumpet, Hyderabad. The objective of the project is to generate quality manpower and develop skilled professionals in the area of IECT and allied, by providing world-class education & training and accreditation services

NIELIT Extension Centre Buxar Inaugurated

NIELIT Extension Centre, Buxar was inaugurated by Shri Ashwini Kumar Choubey - Hon'ble Union Minister of State, Consumer Affairs, Food and Public Distribution and Ministry of Environment, Forest and Climate Change, Government of India on 30th January 2024, in the presence of The Director General of NIELIT Dr. Madan Mohan Tripathi. The Ministry of Electronics and Information Technology (MeitY) approved the project entitled "Setting up of NIELIT Extension Centre at Buxar in Bihar State" on 25th September 2019, with a total budget outlay of Rs 930.41 Lakh, out of which Rs. 917.59 Lakh has been earmarked for construction of the permanent campus, equipment & other infrastructure for the Centre. There is a target to train approximately 1155 students over a period of 03 years in various short and long-term courses. The project was extended up to 31st March 2024.

The objective of this project is to offer various courses and programs that equip students and professionals with the requisite skills in the field of Electronics and Information Technology to thrive in the digital age.

COLLABORATIONS AND MoUs

MoU between NIELIT and ITI EGYPT

An MoU was signed between NIELIT and Information Technology Institute (ITI), Egypt on 12 March, 2024 in Kairo in the presence of H. E. Dr. Amr Talaat, MCIT Egypt and Mr. Ajit Gupte, Ambassador of India to Egypt. The MoU was signed by Dr. M.M Tripathi, DG, NIELIT and Dr. Heba Salen, Chairwomen ITI. The objective of the MoU is to foster mutual collaboration to improve workforce skills, promoting employment opportunities, address skill gaps and foster International Corporations.
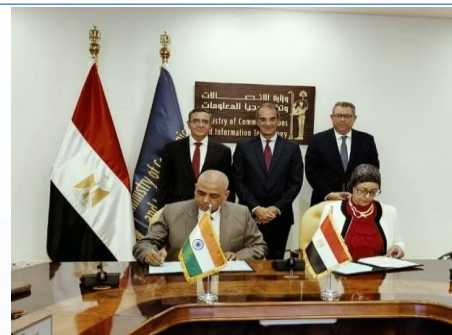
MoU between NIELIT and DBRAU Delhi

NIELIT has signed an MoU with Dr. B.R. Ambedkar University, Delhi on 03rd January, 2024 with the objective to develop skilled man power in the domain of common interest such as management, technology, finance, Emerging technologies etc. through participatory mode such as summer internships, placement, field visits, workshops, conferences etc. DBRAU may also adopt NIELIT's NSQF courses, Cyber securities and AI training for their students. NIELIT shall offer Virtual Academy Platform along with virtual Lab facility to Dr. B.R. Ambedkar University.

MoU between NIELIT and MPSeDC

An MoU has been signed between NIELIT and M.P. State Electronics Development Corporation Ltd (MPSeDC) on 12 March, 2024. MPSeDc is Information Technology capacity building body and promote use of IT and ITeS in various department, corporations, companies, Societies, Boards etc. of Govt of Madhya Pradesh. The objective of MoU is to run NIELIT Digital Literacy courses in 51 E-Daksh centres in all 51 districts of M.P. NIELIT shall carry out the training to state govt. officials in the field of 5G, AI, AR-VR, Blockchain, IOT, RPA etc.

NIELIT Calicut @ NITC Annual Summit of MoU partners

NIELIT Calicut participated at the Annual Summit of MoU partners of National Institute of Technology, Calicut (NITC). The Summit was hosted by the Centre for Industry Institutional Relations (CIIR), NITC to emphasise the crucial nexus between industry and academia. Over 100 participants, including 40 representatives from various MoU partners, convened at the Senate Hall for insightful discussions.

MoU with KELTRON

As an apart of a series of initiatives focusing on building and planning capacity through democratic processes within Local Governments, NIELIT Calicut signed an MoU with the Kerala State Electronics Development Corporation Limited (KELTRON) on 15th February, 2024. The collaboration is focused on developing a comprehensive strategy linking academics, research, and partnerships for community development initiatives. It is envisaged to achieve this by engaging students' academics and policymakers through collaborative projects that can institutionalise innovation in policy, practice and pedagogy in Kerala.

MoU with ASAP

Additional Skill Acquisition Programme, ASAP Kerala entered an MoU with NIELIT Calicut on 13th February, 2024. The MoU was signed at the ASAP Head Office in Kerala, by Dr. Pratap Kumar S, Director, marking a significant milestone in the realm of skill development and technology advancement in the region. This partnership can empower individuals with relevant skills and knowledge in emerging technologies. The key areas of focus under this MoU are to provide training/skilling programmes, certifications, workshops, internship opportunities, placement opportunities and digital

infrastructure to students entering the technology industry. Both the parties are committed to working closely together to achieve these objectives and make a positive impact on the community.

MoU with NIT Calicut

An MoU was signed with NIT Calicut for impactful academic and research collaborations. The MoU will help joining forces to enhance learning experiences and foster innovation in the tech landscape. Dr. Pratap Kumar S, Director, NIELIT Calicut signed the MoU with Prof. Prasad Krishna , Director, NIT Calicut in the presence of Smt. Sheila VS, Shri. Sasidharan P. T, NIELIT Calicut and Dr. Jose Mathew, Chairman TBI- NTC, Head MED Department of Mechanical Engineering

MoU with ICT Academy

An MoU was signed with ICT-Academy Kerala on 22 Feb 2024 for impactful academic and research collaborations to help joining forces to enhance learning experiences and foster innovation in the tech landscape.

MoU with Ai-Drone Private Ltd

An MoU was signed with Ai-Drone Private Ltd on 5th March 2024. The MoU marks the beginning of an exciting journey towards innovation and collaboration.

MoU Signed with Shoolini University, Himachal Pradesh

NIELIT Shimla has signed the MoU with Shoolini University, Solan H.P. to enhance the Academic & IT Skills Among the youth of Himachal Pradesh.

Agreement Signed with United Computer

An agreement was signed by Shri V. Krishnamurthy, ED, NIELIT Kolkata and Shri Subhasis Choudhury, Chief Executive United Computer, PurbaBardhaman, West Bengal for imparting training to SC/ST/EWS(Women) candidates in 3 nos. NSQF aligned courses in Cooch Behar district, West Bengal under the project "Employability Enhancement & Livelihood Training Program (EELTP) for SC/ST&EWS (Women) Youth through Capacity Building and Skill Development in IECT" on 15th March, 2024 at the chamber of ED, NIELIT Kolkata, in presence of Shri Tapas Trivedy.

MoU with Jawahar Navodaya Vidyalaya, Schools

NIELIT J&K signed an MOU with JNVs of J&K region (Ganderbal, Anantnag, Baramulla, Rajouri, Jammu, and Udhampur) for various Skill Development Training Programs in the field of IECT to equip the students with necessary knowledge of the key industry practices and skills to be fruitfully employed besides providing exposure to live projects and hands-on practical training. Speaking at the event, Sh. Ashaq Hussain Dar, DIC NIELIT J&K, emphasized the importance of skill development in unlocking the full potential of students and enabling them to contribute meaningfully to the socio-economic fabric of the nation. He

added that by providing access to such quality skill development programs, NIELIT is not only preparing

the youth for future employment opportunities but also nurturing a generation of tech-savvy individuals capable of driving innovation and progress.

NIELIT Itanagar signed 02 MoUs

NIELIT Itanagar signed 02 MoUs with reputed Institutions of Arunachal Pradesh for conducting training programmes. The MoUs were signed by the head of the respective intuitions and Sh. Rintu Das, DIC, NIELIT Itanagar.

Agreement signed with Hartron Gurugram

An agreement signed between NIELIT Kurukshetra and Hartron Gurugram for "Setting up a NIELIT Skill Centre of Excellence (NSCoE) at campus of HARTRON Multi Skill Centre Gurugram". NIELIT Kurukshetra will develop Centre of Excellence in 5G/6G & other emerging technologies and also provide skill trainings at the centre.

MoU Signed with Government Polytechnic, Sirsa

NIELIT Kurukshetra signed another MoU with Government Polytechnic, Sirsa for leveraging capacity for skilling and internships. Workshops/seminars on emerging technologies would also be provided to GP Sirsa students.

An MoU signed between NIELIT Guwahati/Tezpur and Tezpur College.

On March 27, 2024, NIELIT Guwahati/Tezpur signed a MoU with Tezpur College to establish an academic association. This collaboration aims to enhance educational opportunities and promote skill development among students. In the MoU exchange program, Sri PrankrishnaTamooli, NIELIT Tezpur EC and Tezpur College were represented by Principal Dr. Jyoti Kamal Hazarika.

SKILLING ACTIVITIES

Bootcamp Training in AI, ML and IoT

NIELIT Kurukshetra provided 3 days' Bootcamp training to faculties of NIELIT Training Partners and 25 students in the areas of Artificial Intelligence, Machine Learning and IoT. NIELIT Kurukshetra trained approx. 600 candidates in the Bootcamp training program through its training partners.

Industrial Training in AI and Machine Learning

NIELIT Jammu is conducting 6 Months training program on AI and Machine Learning for 5 candidates. The training program started on 22nd February, 2024 and will conclude on 23rd June, 2024. Concepts of Python programming and fundamental data structures, concepts of AI were discussed in detail. Hands-on sessions were conducted on data science libraries like NumPy and Pandas, data analysis, data cleaning techniques,

and data visualization. The concept of machine learning, its models, and the implementation of its algorithms were also covered in detail.

Skill Development of Youth in Aspirational districts in IECT

NIELIT J&K (Srinagar) has been assigned the project titled "Skill Development of Youth in Aspirational Districts in IECT Leading to Enhancement of Employability" for the year 2023-2024. With a target of 667 set for this period, the organization has exhibited exceptional commitment and efficiency to achieve this milestone by April 2024.

Workshop on "Artificial Intelligence"

NIELIT Ropar conducted a workshop on "AI" for the faculty of Kendriya Vidyalaya, Khanpur, Ropar. The workshop was conducted on 27th March 2024. The faculty was apprised about various applications of AI in real life. The workshop was conducted by Ms Suman, STO.

Industrial Training Program in IoT

Three weeks hands on Industrial Training Program "IoT" from 13th December, 2023 to 04th January, 2024 conducted at NIELIT Shillong. A total of six students from EC and EE Engineering students, North Eastern Regional Institute of Science & Technology (NERIST), Itanagar, attended the training program.

Industrial Training in AI & ML

Classes of 6 months industrial training in "AI and Machine Learning" being taken by IIT Ropar Professor Dr Arun on Mathematics and Statistics for Machine Learning".

Induction Program for Students of Bharati College, Delhi University

NIELIT Delhi conducted an Induction Program for Students of Bharati College, Delhi University on 6th February, 2024. More than 150 students and teachers of Bharati College attended the same. Moto of the program was opening the gates for Bharati College students for undergoing non-formal NIELIT courses along with their formal education. Sh. Ashish Raturi and Sh. Ankur Pruthi conducted the program and guided students about NIELIT Courses and Career opportunities for students after undergoing NSQF/ Non NSQF courses of NIELIT.

Work Based Learning in AI, ML, IoT and RPA

NIELIT Chandigarh evaluated the Project Work done by Interns enrolled under the Work Based Learning Scheme of MeitY. The students presented projects in emerging technologies like AI, ML, IoT and RPA which were appreciated by the Technical Monitoring Committee having external and internal examiners.

Internship in Data Science using Python

NIELIT Patna completed the "Internship in Data science using python programming" for students of Netaji Subhas Institute of Technology, Bihta. This program equipped the students with practical skills in data science, a field that uses programming to extract knowledge and insights from data.

Boot Camp in Unmanned Aircraft System (Drone and Related Technologies)"

NIELIT Aurangabad conducted boot-camp training programs with a duration of 5 days (40hrs.) under the "Capacity building for Human Resource Development in Unmanned Aircraft System (Drone and related technologies)" project funded by MeitY Govt. of India. The bootcamp 4.0 titled as "Bootcamp on Unmanned Aerial Systems" was conducted with 75 participants at CVR College of Engineering, Vastunagar, Rangareddy, Telangana. The objective of this bootcamp was to introduce basics of drone assembly which involved drone (quadcopter) frame, flight controller, Electronics Speed Controller, BLDC motors and propellers to sensitize UG/PG students of BE/B.Tech etc.

Course on "Optical Fibre Splicing" conducted by NIELIT Guwahati

During January-February 2024, a 100-hour training program on optical fibre splicing was conducted at Assam Engineering College (AEC), Guwahati, by the faculty members of NIELIT Guwahati. Sri Anil Kr Shaw, coordinated the program. The program was attended by 51 engineering students, providing them with practical skills and knowledge essential for working with optical fibre technology.

RPA Training at Navodaya Vidyalaya Kolhapur

NIELIT Aurangabad conducted RPA training at NV Kolhapur in the first week of March 2024

Awareness Training on Cyber Hygiene & Security

A two-day Offline Training of Trainers Programme on Cyber Security was conducted by NIELIT Calicut as part of a capacity building campaign for the officials of Iringalakuda Town Bank. The training was conducted on 13th - 14th January, 2024 by Smt Sini S Nair, Scientist 'D' and Shri Hari K, Principal Technical Officer, NIELIT Calicut.

Awareness Seminar on "Artificial Intelligence"

NIELIT Ropar Officials conducted an awareness seminar on "Artificial Intelligence: Role of AI in everyday life and its applications" for the Senior Citizens of Mohali Senior Citizens Association on 7th January, 2024. The Chief Guest of the function was S. Amarjit Singh Sidhu, Mayor of Mohali. The event was appreciated by the Chief Guest and the audience. The seminar was conducted by NIELIT officials, Ms Anita Budhiraja, and Dr Sarwan Singh.

Awareness Programs on Emerging Technologies

On March 29, 2024, NIELIT Silchar/Guwahati, conducted a workshop on "Emerging Technologies" at Silchar College. The workshop aimed to educate students and faculty about the latest advancements in technology, including AI, IoT, blockchain, and cybersecurity. The event featured expert speakers and interactive sessions, providing participants with valuable insights and discussed about various applications on cutting-edge technological trends.

Workshop on AI, Machine Learning and IoT

NIELIT Jammu conducted a workshop on AI, Machine Learning and IoT for the students of University of Jammu on 29th February, 2024. These educational workshops were designed to familiarize students with the fundamental concepts and practical applications of these transformative technologies. The event aimed to bridge the gap between theoretical knowledge and real-world applications, equipping students with the skills and insights needed to pursue careers in these dynamic fields. These workshops not only enhanced their technical proficiency but also encouraged them to innovate and think critically about the challenges and opportunities presented by these technologies.

Training programme on "Ethical Hacking"

One Month training programme on "Ethical Hacking," sponsored by DIT, Govt. of Manipur was conducted at NIELIT Imphal from 17th January, 2024 to 16th Feb'2024 in collaboration with M/S Globizs Web solutions Pvt Ltd, Imphal.

Empowering Youth through Robotics: NIELIT Kokrajhar's Initiative in Schools

NIELIT Kokrajhar took a proactive step in promoting STEM subjects among young students by organizing 'Robotics for Kids' workshops in various schools. These interactive workshops not only sparked interest in robotics and technology but also provided hands-on experience, fostering a passion for STEM subjects among the students.

Tech Awareness Event conducted at Dibrugarh EC of NIELIT Guwahati

On 5th March 2024, NIELIT Dibrugarh Extension Centre conducted an awareness program on 3D printing, AI, IoT, and drones, which 350 students and 16 teachers attended.

Training of 3rd batch in AI for Shyam Lal College, Delhi

NIELIT Delhi has completed the training of 3rd batch of Fundamental Course in AI and ML add-on course under the agreement of Shyam Lal College. The batch commenced from 23rd Jan 2024 and completed on 14th Feb 2024. Ms Swapnali Naik, delivered the hands-on sessions.

Teacher's Training in IT Applications

Inauguration of Training in IT Applications and Basics of Computer at Sonyao Academy of Innovative Learning, Ukhrul District on 12th February, 2024. The program was inaugurated by the CEO, Shri David Kashungnao.

Training Programme on Web/Mobile Technologies

Training on Web/Mobile technologies was organized by NIELIT Itanagar in collaboration with the NERIST on 8th of Feb.2024 where 75 candidates participated.

4 Months "Cyber Shikshaa" Training by DSCI and Microsoft India at NIELIT Srinagar

NIELIT Srinagar conducted a comprehensive 480-hour training program titled "Cyber Shikshaa" for women candidates of J&K region. The program was conducted for 4 months from 13th Nov 2024, to 16th March 2024. 26 candidates participated in the training representing various educational institutions across the valley, including Kashmir University, SSM College of Engineering, Islamic University of Science and Technology (IUST), and Cluster University Srinagar. The initiative aimed to equip the participants with essential skills and knowledge in the field of cybersecurity, empowering them for future endeavours in this domain. By empowering women with essential cybersecurity skills, the program sought to create a more diverse and inclusive workforce in the field of information security, thereby contributing to the overall cybersecurity landscape of the region and the nation.

Electronic Production Technician Course Conducted

NIELIT Patna Conducted an Electronic Production Technician Course under the Bihar Skill Development Mission.

Overview of Solar Panel installation

Overview of Solar Panel installation given to the students for the course "Solar LED lighting product (design and manufacturing)" by NIELIT Patna.

Industrial visit at NIELIT Srinagar

NIELIT Srinagar has initiated a paid internship program titled "Industrial Visit" designed for the School Education Department. During these visits, students are exposed to a spectrum of cutting-edge technologies including Networking, Cyber Security, and other emerging domains. Through a series of lectures and demonstrations, students receive first hand insights into the practical applications of these technologies, thereby fostering a conducive learning environment. So far, more than 1100 students from 40 schools have visited the centre and benefited from this capacity-building program.

Training Programme on "Python Programming" and "3-D Printing using SolidWorks"

NIELIT Itanagar organized a training programme on Python Programming and 3-D Printing Using SolidWorks, which was conducted at the Department of Mechanical Engineering, NERIST, and Nirjuli from 24-28 February. Altogether, 46 students of the department of ME, AE, CE AND ECE NERIST attended this training programme. The inaugural function held on 24 February was graced by Professor Narendranath S., Director, NERIST as the chief guest, Sh Rintu Das, DIC NIELIT, Itanagar as guest of honour.

Internship Training Program at Mysore

An Internship Program on AI / ML using Python was organised at Mysore by NIELIT Calicut.

Training Programme for PM SHRI scheme and Internship for School Students

➢ NIELIT Aizawl conducted a 5-day internship program on Cyber Security and Ethical Hacking from March 4th to March 8th, 2024, at JNV, Lawngtlai. The resource persons for the program were Shri R. Dengchhunga, STO, and Shri Zomuana, Faculty.

➢ As a part of the PM SHRI scheme, Internship Programs on Robotics, AI/ML using Python, Cyber Security and Ethical Hacking were organised at a number of schools in Karnataka. As a part of the program the students took up Live projects on Image processing, audio processing and posture and gesture control.

➢ NIELIT Ropar started training in "Robotics" for 80 students of PM Shri JNV School, Chandigarh. The students will be provided hands on and practical oriented training by Sh Parkash and Dr Sarwan Singh

➢ NIELIT Ropar conducted the three-week batch in "AI and Data Science" at JNV at Jallandhar, Punjab. The training was conducted in the school for 9th to 12th class students from 9-27th February, 2024. Students were provided hands on and project-based training in Data Science and AI. Certificates were distributed to the 80 students by Ms Anita Budhiraja.

➢ At JNV, **Bongaigaon**: On March 29, 2024, the NIELIT Kokrajhar/Guwahati organized a workshop on 'Emerging Technologies' at JNV. The workshop introduced students to cutting-edge technologies such as AI, IoT, Blockchain, and cybersecurity.

➢ As a part of the PM SHRI scheme, Internship Programs on Robotics, Cyber Security and Ethical Hacking were organized at JNV schools in Arunachal Pradesh. The objective of the programme was to nurture students in such a way that they become engaged, productive and contributing citizens for building an equitable, inclusive and plural society as envisaged by the NEP 2020.

- NIELIT Kurukshetra provided 5 days', training in the areas of Digital Awareness, Cyber Security & AI/ML to 720 students of JNVs in the state of Haryana. The training also included an industrial visit.

- NIELIT Srinagar conducted Skill Development training programs on Basics in Computers, Web Designing IoT and AI for 240 JNV students from Ganderbal, Anantnag, Baramulla, Ganderbal, Anantnag, and Baramulla. At Jammu region, a total of 240 JNV students from Rajouri, Jammu, and Udhampur.

- NIELIT Delhi, Janakpuri, conducted a 3-days training program on the topic " Skilling on IoT" for students of PM Shri Kendriya Vidyalaya, Masjid Moth, w.e.f. 26-28 March 2024. 30 students participated in the training, and Certificates were distributed.

- NIELIT Haridwar has initiated various IT skilling programs at various Inter Colleges as Mithilesh Sanatan Dharam Inter College, Kankhal, Saraswati Vidya Mandir Inter College, Mayapur, Hariram Arya Kanya Inter College, Haridwar, SMJN (PG) College, in Haridwar. These programs aim to provide students with essential skills and knowledge in the field of information technology, preparing them for future opportunities in the digital world. Under this project a total of 300 school students are to be trained.

- NIELIT Aurangabad organized an internship programme titled "Course on Digital Literacy" from 26th March, 2024 to 30th March, 2024 at PM Shri School JNV, Nizampur, Tal Raigad District.

- NIELIT Aurangabad organized an internship course on Robotics from 26th March, 2024 to 01st April, 2024 at PM Shri School JNV Aurangabad. 40 candidates have completed the internship course.

- Awareness Program was conducted at UmsawSohiong from 3rdJanto 5th Jan 2024, Nongthymmai Umsning from 8th -10th Jan 2024 for women candidates and at National Law University from 8th -11th March' 2024. A total of 311 Candidates participated in the Programs.

- Awareness Program was conducted for Farmers on "Use of ICT Technologies for effective farming and marketing" at Sohiong and NongthymmaiUmsning. A total of 478 candidates participated in the training. Another Basics Computer on Office Automation was conducted at Don Bosco Technical School and Sati Raja RawaUmsning, Meghalaya. A total of 99 Candidates enrolled in the Courses.

- "Solar Power Installation Operation & Maintenance" course was conducted at Don Bosco Technical school Shillong by NIELIT Shillong. A total of 39 students have registered for the course. Another program on Office Automation & Data Analytics using R & SPSS course was conducted at St Xavier from 5th Feb'2024 to 2nd April 2024, from 19th Feb 2024 to 5th May 2024. A total of 66 candidates participated in the trainings. Another course on "Computer Application & Networking" Course was conducted. Total of 34 Candidates have enrolled in the courses

- NIELIT Patna conducted training under PM SHRI Scheme in Future Skill Courses like AI, IoT, and Robotics for over 600 students enrolled in JNVs across various districts of Bihar.

- NIELIT Haridwar has organized an Internship Training Programme on Future Skill Technologies specifically designed for students JNV across 10 different districts of Uttarakhand:Almora, Pauri Garhwal, Nainital, Dehradun, Champawat, Tehri Garhwal, Rudra Prayag, Bageshwar, Haridwar and Uttarkashi. This program aims to equip students with basic skills in emerging technologies, providing them with valuable learning opportunities. 768 students have been trained under this project.

- 5 days Internship Program on Cyber Security and Ethical Hacking from Feb.26th to March 1, 2024, NIELIT Aizawl hosted a 5-day internship program focusing on Cybersecurity and Ethical Hacking at JNV, PukpuiLunglei. The program was led by Shri VanlalhmangaihaKhiangte and Shri Lalremruata.

- An Internship Program on Robotics was organized at JNV Bagalkot.

- Internship on AI / ML using Python @ JNV Dakshina on AI/ML using Python was organized at JNV Dakshina from 4th to 8th March 2024. During the inaugural function, the Chief Guest, Mr. Jishnu, Manager, SBI spoke on the advantages of the training.

- Several Internship Programs on AI / ML using Python was organised at JNV CHIKABALAPUR, CHITRADURGA, Bagalkot, Chikmangaluru, Koppal, Gadag and Mudippu by NIELIT Calicut. As a part of the Digital Literacy Programme, a training Program on Robotics was organised at Udupi by NIELIT Calicut.

- An Internship Program was organized at JNV School Arunachal Pradesh. A total of 77 students were trained on Robotics and Cyber security & Ethical Hacking from 2nd - 6th March 2024.
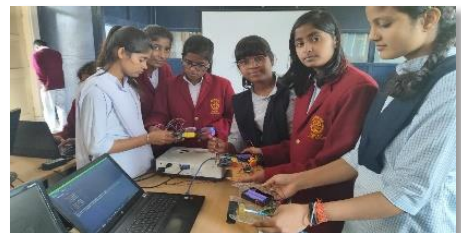
- Launch of Internship at JNV Jowai under PM SHRI Scheme by NIELIT Shillong. 80 students of JNV enrolled in the internship program in Python Programming which started on 26th February 2024.

- An Internship Program on Computer Fundamental and Introduction to Emerging Technologies was conducted at 11 PM Shri JNV Schools in the state of Rajasthan. A total of **806** students from these schools participated in the Internship Program.

CORPORATE TRAININGS, FDPS, TALKS AT CENTRES AND THER INSTITUTES

FDP on Digital Systems and Applications

A One-Week Faculty Development Programme on **"Digital Systems and Applications"** Sponsored by DIRECTORATE OF UNIVERSITY and HIGHER EDUCATION, Government of Manipur was jointly organised by Department of Physics, Manipur College and NIELIT, Imphal from 17th-21st January, 2024. Shri Th. Chittaranjan Singh, and Shri S. Surjit Singh, were Resource Persons of the programme.

Training Program for NABARD Officers

NIELIT Jammu initiated training program on 'Advanced Excel,' designed specifically for officers of NABARD in Jammu. During the inauguration, GM of NABARD J&K, Sh. S. Sharma, highlighted the program's alignment with contemporary technological requisites, emphasizing its critical role in equipping participants with enhanced analytical tools and capabilities essential for effective data analysis and decision-making in the financial sector. The curriculum was set to cover complex formulas, macros, pivot tables, and data visualization techniques etc.

Training on MY Bharat Portal for Officers of Ministry of Youth Affairs

A comprehensive four-day physical training session on the MY Bharat Portal was conducted at the NIELIT East Delhi Office, Karkardooma from March 22, 2024. This initiative of MY Bharat Department under the Ministry of Youth Affairs and Sports, Government of India, aimed to equip 97 officials from NIELIT and individuals sponsored by the Ministry of Youth Affairs and Sports with the requisite skills to serve as Master Trainers. The training program was designed to provide participants with in-

depth insights into the functionalities and intricacies of the MY Bharat Portal, a pivotal platform facilitating various youth-centric initiatives and engagements across the nation.

Master Trainers, after the four-day training on the MY Bharat Portal will be capable of cascading their knowledge to a wider audience for fostering youth development and inclusive growth, while also reaffirming NIELIT's pivotal role as a facilitator of transformative initiatives in the national landscape.

NIELIT Guwahati to Empower Local Youths with IBM Skills Build

On April 13, 2024, NIELIT Guwahati launched a transformative initiative called 'One Youth, One Skill' in collaboration with IBM. This initiative, aimed at empowering local youths in Assam, was introduced through a meeting with Edunet Foundation, an NGO training partner of IBM. The 'One Youth, One Skill' initiative holds the promise of a brighter future for these young individuals, equipping them with the necessary skills to thrive in the digital age.

Corporate Training in Artificial Intelligence & Machine Learning

A 20-day Corporate Training on Artificial Intelligence & Machine Learning (60 Hrs) was conducted by NIELIT Kolkata at Salt Lake Campus for the employees of West Bengal State Electricity Distribution Company Limited (WBSEDCL) from 19th February 2024 to 20th March 2024. The program was inaugurated in the presence of Shri V. Krishnamurthy, Executive Director, Shri Bhaskar Banerjee, Coordinator and other employees of the centre. In the inaugural session, the Executive Director highlighted the activities of Kolkata centre and motivated the participants to acquire higher skill and knowledge in the

emerging domain. In the training sessions the participants were given in depth training on Machine Learning, Deep Learning, Computer Vision and the latest AI tools on Object Detection augmented with practical examples. The participants were given step-by-step hands-on experience on building an AI model for detection of Meter Reading through images. The training sessions were highly interactive and the participants appreciated the quality and methodology of training. The program was closed with a Certificate Distribution ceremony.

Corporate Training on Advanced Network Administration and Linux System Administration

A 6-day Corporate Training on Advanced Network Administration and Linux System Administration (48 Hrs) was conducted by NIELIT Kolkata at Jadavpur University Campus for the newly recruited employees of Indian Statistical Institute (ISI), Kolkata during 29th January 2024 to 3rd February 2024. The program was inaugurated in the presence of Shri V. Krishnamurthy, ED, Dr. Kalyan Baital, Course Coordinator, Mr. AmbuzAnkesh, and Mrs. Varsha Deshmukh and other employees of the centre. In the inaugural session, the Executive Director highlighted the activities of the Kolkata centre, and motivated the participants to acquire higher skill and knowledge in the emerging domain. In the training sessions, practical demonstrations on network administration and Linux system administration have been provided in a live environment for efficient delivery of the participants in their respective organizations. The training sessions were interactive and the participants appreciated the quality and methodology of the training. The program was closed with a certificate distribution ceremony

NIELIT Srinagar conducted CBT for Stenography Examination for SKUAST-K aspirants

NIELIT Srinagar conducted a CBT for stenography examination from 29th January to 2nd February, 2024. 682 candidates participated in the recruitment examination for stenographer positions at Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir.

Financial Wellness and Awareness Classes by Union Bank team

A financial Wellness and Awareness Class was conducted by Union Bank team for the staff on 12th March, 2024. The event was organised by the NIELIT Recreation Club of NIELIT Calicut.

Medical camp by Kottakkal Arya Vaidya Sala team at NIELIT Calicut

An awareness class and medical camp was arranged for the staff and students by Kottakkal Arya Vaidya Sala team on 13th March 24. A Medical Awareness class was conducted by a senior physician of Arya Vaidya Sala and a Medical Camp by Physicians of Arya Vaidya Sala. The event was organised by the NIELIT Recreation Club of NIELIT Calicut.

Industrial Training in AIML

NIELIT at its Ropar campus conducted Presentation and Demonstration of Major Project undertaken by the 6 months industrial training in AIML being run jointly with IIT Ropar. Students demonstrated projects in the area of Predictive Analysis, Computer Vision and Natural Language Processing. Project on latest topics like Fake Images, Image Detection in License Plate, Recommendation System etc were demonstrated by the students. Dr Sanjeev Gupta, ED NIELIT Chandigarh addressed the students and praised for the efforts put in for the Project Work. He encouraged them to explore entrepreneurship through a start-up in these emerging areas.

Information Security Awareness FDP Session for NIELIT Staff

A session/FDP on Information Security Awareness was conducted for the staff of NIELIT Calicut on 3 Jan 24, by Smt Sini S Nair. The session enabled the staff to promote cyber security awareness and online safety among students.

Hands on Training on e-Granthalaya-4.0

As a part of capacity building Programme for the Automation of Libraries of Govt. Institutions/Offices, Hands on Training on e-Granthalaya-4.0 for working Librarians/Library Professional/Library Staff was held at NIELIT Imphal from 18th - 19th January, 2024

Teachers' awareness program on Cyber Security:

NIELIT Haridwar conducted a Cyber Security awareness program for teachers at JNV, Sankarpur, Uttarakhand. This initiative aimed to equip educators with the knowledge and skills needed to protect students in the digital realm. The program likely covered various aspects of Cyber Security, such as safe internet usage, recognizing online threats, and implementing best practices for data protection.

1. NIELIT Kurukshetra is providing trainings to DGE sponsored 50 candidates in IT-O Level course and 25 candidates in CHMT-O Level Course
2. Trainings to 90 candidates under Aspirational District Project at Mewat District were imparted in "Certified Data Entry and Office Assistant (Upskilling)" and "Certified Computer Application, Accounting and Publishing Assistant"
3. Trainings to 250 candidates under EELTP Program at Hisar & Sirsa Districts are being imparted in various courses including IT-O Level, "Certified Data Entry and Office Assistant (Upskilling)" and "Certified Computer Application, Accounting and Publishing Assistant"

NIELIT Ropar met officials of PUNCOM Mohali

Relation, Business Development team – Ms Sunita Goyle, and Ms Meenu Dhir, held meeting with the officials of PUNCOM Mohali. Various business opportunities were explored in the field of product development, R&D and training. The officials of PUNCOM Mohali showed the working on the assembly line to NIELIT officials.

DG NIELIT Visited NIELIT Patna

Dr. M.M Tripathi, DG NIELIT, paid a visit to NIELIT Patna on 29/01/2024. During his visit he reviewed the ongoing activities of centre and also took part in the plantation drive in the campus.

Capacity Building trainings for DGR, Armed Forces, Police and CID officials

➢ NIELIT Aurangabad in association with DGR has been conducting skilling programs for retired Army, Navy and Air force Officials. Our Armed Forces Officials are provided with complete professional & hands-on-training from software installation to handling professional services. The aim of this training is to enable them to become self –employable, entrepreneurs and industry ready. 46 Army Officials are undergoing CHM O level course from 11th March, 2024.

➢ NIELIT Aurangabad organized a corporate training program in Computer Hardware and Networking, as well as Full Stack Web Development, for Air Force Officials stationed at the Air Force base in Nashik from January 2024 to March 2024, The program was attended by a total of 100 officials, divided into four batches. Dr.Jayaraj, U Kidav, ED of NIELIT Aurangabad, presented certificates to the successful candidates.

➢ Capacity Building of JCO/ORs of Directorate General of Resettlement (DGR) on the course of "Cyber Security Assistant" conducted at NIELIT, Inderlok. Also conducted another training on Cyber Security Assistant for the candidates sponsored by DGR. A total of 38 participants belonging to the ranks of JCO/OR's attended the course. The training commenced from 13 November, 2023 for a period of 12 weeks and concluded with a valedictory function.

➢ Valedictory Programmes for DGR candidates: NIELIT Delhi, Inderlok conducted training on CHMT O, sponsored by DGR. The training commenced from 09th October, 2023 and the closure was

done with a valedictory function on 23rd February, 2024. During the valedictory program, Shri Subhanshu Tiwari, ED, NIELIT Delhi awarded Certificates to all participants and felicitated them.

- ➤ NIELIT Delhi, Janakpuri has conducted a training program of 540 hours in NIELIT 'O' Level course for JCOs/ORs of DGR conducted w.e.f 25th September 2023 to 22nd March 2024. The valedictory programme for the batch was conducted on 22nd March 2024. Sh. Subhanshu Tiwari, ED and Mr. Ashwani Tickoo.

- ➤ NIELIT East Delhi conducted a training program for 29 Officers/officials of Indian Army, Navy and Airforce sponsored by DGR in NIELIT 'O' Level (NSQF Level- 04) on February 12, 2024, Attendees were awarded certificates by Dr. S. Dhurandher, ED of NIELIT.

- ➤ Valedictory event of DGR sponsored candidates who underwent training in O Level (IT) was organised on 23rd Feb.2024 at NIELIT Chandigarh. NIELIT Chandigarh Valedictory event of DGR sponsored candidates who underwent training in ADCAAP with 15 participants and Solar Led with 25 participants was held on 13th Feb.2024. Lieutenant Colonel Sanjay Sharma graced the occasion with his presence and distributed the certificates to the participants of both batches.

'O' Level Training to the officials of Armed Forces

NIELIT Shimla conducted 'O' Level Training Program to the officials of Army, Navy & Air Force. The training was conducted and on completion of the Batch Col G.B.P. Singh from Udhampur visited NIELIT Shimla and interacted with participants and motivated them to pursue to get benefited by course then get appropriate Job after retirement.

CHMT O level course for DGR candidates

"NIELIT Patna has commenced the CHMT O Level course for DGR candidates, scheduled from March 25, 2024, to August 9, 2024. Shri D S Oberoi, Director of NIELIT Patna, interacted with the candidates at the beginning of the session."

Advanced Computer Training Program for Sub-Inspectors

NIELIT Patna conducted an Advanced Computer Training Program focused on Cyber security for 500 Police Sub-Inspectors from the Bihar Police Service. This training initiative aimed to equip police officers with the knowledge and skills necessary to combat cybercrime effectively. The areas covered in the program were-1] Understanding Cyber Threats, 2] Cyber security Measures, 3]Cybercrime Investigation Tools, 4]Emerging Cyber security Trends. By undergoing this training, the 500 police SIs will be better

prepared to: 1] Handle cybercrime complaints, 2] Conduct investigations, 3]Raise awareness. This initiative by NIELIT Patna is a significant step towards strengthening the Bihar Police's capacity to tackle cybercrime effectively, ensuring a safer digital environment for the state.

- ➢ NIELIT Patna concluded an In-Service training program on Advanced Business Intelligence for Addl. SPs from the Bihar Police Service. The program was held at the Bihar Police Academy in Rajgir and delivered by subject matter experts by Sh. Manish Kumar Jha (Sc-D) & Sh. Yashwant (I.T. Manager).

- ➢ Special training and Assessment of Business Intelligence and Advance Cyber Security for 66th batch DSP at BPA, Rajgir conducted by Sh. Manish Kumar Jha, Sc-D & Sh. Yashwant.

- ➢ NIELIT Guwahati conducted a one-week advanced Cyber Forensic training program for Assam Police and CID Assam from February 26 to March 1, 2024,. The training covered a range of topics, including Network Forensics, Mobile Forensics, Disk Forensics, and Social Media& Cloud Forensics. Participants included officers of various ranks, such as ACP, Inspector, and SI, who enhanced their skills and knowledge in handling cybercrime investigations.

- ➢ Seminar on Cyber threats – Precautions & possible solutions by NIELIT Kurukshetra- Precautions & possible solutions and Digital Awareness". Haryala Police Officials were invited to deliver the talk to 80 students of JNV Ambala at NIELIT Kurukshetra.

- ➢ NIELIT Shillong under the project "Development of Cyber Forensic Training cum Investigation Labs in NE States and Cloud based centralized CF Lab Infrastructures" organized an Advanced Cyber Forensics Training organized for Meghalaya Police for 5 days from 19th Feb. to 2nd March, 2024. Also NIELIT Shillong organised a training programme on Cyber Forensics for Judicial Officers and Public Prosecutors of the Hon'ble High Court of Meghalaya on the 16th March, 2024.

- ➢ The officials from Directorate of Himachal Pradesh Police went under One Week training programme on Hardware Networking & Cyber Security Fundamentals conducted by NIELIT Shimla.

> On March 18, 2024, Assam Rifles, Zemabawk organized an Army Career Awareness Program tailored for the graduating students of NIELIT Aizawl.

CONFERENCE, STALLS, CELEBRATIONS, PARTICIPATION, OBSERVATIONS, PRIZES AND OTHER EVENTS

Workshop on AI in Medical Electronics by NIELIT Imphal

A workshop on AI in Medical Electronics was jointly organized by NIELIT Imphal and the Dept. of ECE, Manipur Technical University, Imphal on 21st February, 2024. The function was inaugurated in the august presence of Smt. Sunita Verma, Group Coordinator, MeitY, who joined on virtual mode, Prof. Kh. Manglem Singh, NIT, Prof. SukhamThoibaHenba, JNIMS, Imphal, Shri Keisham Biju Singh, MTU, and Shri Rashid Shaban, MeitY Shri N. Debachandra Singh, Director, NIELIT Imphal, presided over the function.

Participation in Mega Exhibition "Shining Maharashtra 2024

NIELIT Aurangabad participated in the Mega Exhibition 'Shining Maharashtra' held from 19th to 21st February 2024 at Phaltan, Maharashtra

Skill India PMKVY Program Launched at South Goa

Skill India PMKVY program launched on 4th January 2024 at Ravindra Bhawan, Margoa, South Goa. Hon. Minister of State, MeitY, Shri Rajeev Chandrasekhar, Dr. M M Tripathi, DG, NIELIT, Dr.Jayaraj U Kidav, ED, NIELIT Aurangabad and other officials were present on the occasion.

NIELIT Stall @ EnliteThriThala Disha Expo 2024

NIELIT Calicut participated in DISHA Higher Studies Expo and Job Fest 2024, organized in collaboration with EnliteThrithala, and Shri M.B. Rajesh, Excise Minister, Government of Kerala on 17th January 2024. The NIELIT team, Smt Sini S Nair, Shri Hari K, and Shri Sreenath Narayanan K provided visitors with detailed information on the academic programmes and courses. The expo, comprising 50 stalls, was inaugurated and presided over by the Minister, Shri MB Rajesh. More than 5000 visitors, including students, parents, teachers, and career guidance experts, attended the mega fair
.

Expert Talk on "Startups & Entrepreneurship"

Shri Anubhav Tiwari, CIO, delivered a Talk on "Startups, Entrepreneurship, and Career Paths"

- NIELIT Ajmer on 30th April 2024: interact with B. Tech students on Start-ups and Entrepreneurship.

NEILIT Ropar on 17th January, 2024, Sh Anubhav Tiwari, lectured on Career Paths and Startups to the students of Industrial Training, BSc, BCA, WBL candidates and staff.

IndiaSkills: India's Biggest Skill Competition Organised

IndiaSkills: India's Biggest Skill Competition, an initiative under Skill India Mission Conducted at NIELIT Patna centre. The students from various states participated in the Cyber Security and Web Technology competition.

International Women's Day Celebrated

NIELIT Centres across the country celebrated International Women's Day under the theme **"Invest in Women: Accelerate Progress"** on 8th March, 2024. Recognizing the invaluable contributions of women everywhere and committing to Invest in Women to accelerate progress for a more inclusive and equal future, the day was celebrated with great enthusiasm wherein the relevance and achievements of women in various fields were also highlighted. On this day, a creche facility was also inaugurated at NIELIT Ropar.

Women's Day was celebrated at NIELIT Imphal, Kolkata, Ropar, Guwahati etc.

National Science Day Celebration

Celebration of **National Science Day 2024** on the theme: "INDIGENOUS TECHNOLOGIES FOR VIKSIT BHARAT" on 28th February, 2024 at NIELIT Imphal, jointly organised with MASTEC

International Women's Day was celebrated at NIELIT Aurangabad on 08th March, 2024. On this occasion, Smt. Harsha Deshmukh, Divisional Deputy Commissioner, Dept. of Women and Child Development, Government of Maharashtra, addressed the staff and students of NIELIT Aurangabad.

Celebration of 75th Republic Day

As India celebrated the 75th Republic Day on 26th January 2024, Staff and students at NIELIT HQ and NIELIT Centres also participated in the celebrations. Dr. M.M Tripathi, DG, NIELIT hoisted the National Flag. EDs, Directors and DICS also hoisted the National Flag at their respective Centres. This day commemorates the adoption of the Constitution of India, and the country's transition to a republic which came into effect on 26 January 1950.

SwachhataPakhwada 2024 Observed

NIELIT HQ & NIELIT Centres celebrated SwachhataPakhwada 2024 from 01st to 15th February, 2024. It started with a pledge-taking ceremony and updated its website and social media with themed banners. Staff members dedicated some time to clean their workspaces, and undertook activities to segregate iron/plastic scrap and old newspapers for proper disposal. The program included a poster-making competition on "Swachh Bharat Swasth Bharat" ,a cleanliness drive around the office premises, and an interactive session on environmental sustainability topics like waste management and plastic reduction. An awareness walk, a plantation drive involving student participation in sapling planting, and the organization

of the office library were other key activities. Additionally, a seminar on the topic 'Cyber Security Awareness' was conducted to educate participants on cyber risks and promote cyber hygiene.

Retirement Ceremony

NIELIT at its Ropar campus organised the retirement of
   a.   Ms Rajinder Gill, Data Processing Executive on 28th February, 2024
   b.   Mr Amitabh Garga, Mr Anurag Trehan, and Ms Vinod, on 28th March, 2024.
The staff members who were retiring along with their family members planted trees along with Dr Sanjeev Gupta, ED, NIELIT Chandigarh and other staff members.

"AAVISHKAAR 2023" Valedictory and Award Distribution Ceremony

Dr.Jayaraj U Kidav, ED, NIELIT Aurangabad as Chief Guest for "Aavishkaar 2023" Valedictory and Award Distribution Ceremony at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Session on Health and Hygiene

A session on "Health and Hygiene" was organised on 08th February, 2024. Dr. Shekhar Pandey, Medical Officer, NIELIT Aurangabad conducted the session in which all staff members attended the session. A Cleanliness drive was also conducted in the campus.

EXTENSION SERVICES

Lecture on "Community Engagement in Reduction of Air Pollution and Human Health Effects"

NIELIT Ropar organised an online lecture on "Community Engagement in Reduction of Air Pollution and Human Health Effects by Dr Ravindra Khaiwal, Professor of Environment Health, PGI, Chandigarh. Students and Staff of NIELIT Ropar and Chandigarh attended the lecture during the SwachhataPakhwada being observed from Feb1 to Feb 15, 2024.
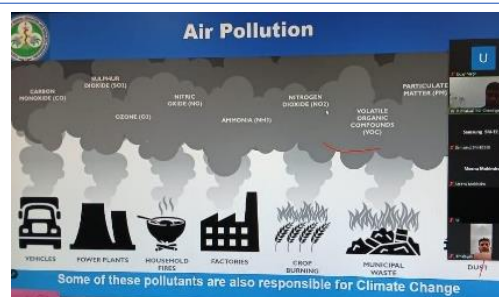
MeraPehla Vote DeshKeLiyeCampagin

NIELIT Imphal NSS Unit I conducted a campaign on **MeraPehla Vote DeshKeLiye** at NIELIT Imphal on 6th March, 2024 from 10 am to 2 pm to give awareness to young voters especially first -time voters to come out and vote. The following activities were performed during campaign:

- Interactive workshops.
- Screening of AV content
- Registration of Voters by using Mobile app
- Taking e-pledge from their respective Mobile phone besides Voter's Pledge.
- Participating online Quiz
- Rally was organised to give awareness to public.

Viksit Bharat Sankalp 2024 Exhibition

NIELIT Haridwar actively participated and received the "Best Stall Award" in the Viksit Bharat Sankalp 2024 Exhibition, where the Centre not only showcased innovative displays but also provided essential career counselling to students. The focus of NIELIT Haridwar was on enlightening students about various future skill technologies, empowering them to navigate the evolving technological landscape with confidence. This engagement underscores our dedication to fostering a brighter, tech-driven future.

Visit of Dignitaries to New Campus of NIELIT Shillong

NIELIT Shillong had a review of its Permanent Campus construction by visiting dignitaries Shri S. Krishnan, Secretary, MeitY in the august presence of Shri Praveen Bakshi, IAS, Secretary to the Govt. of Meghalaya, Dept of IT, Prof. Prabha Shukla, VC NEHU, Dr Sanjeeb Kakoty, IIM Shillong, Shri Shankar Kumar Jha, Director, NIFT Shillong, Dr. M. M. Tripathi, DG, NIELIT, Dr. Yumnam Jayanta, along with other esteemed invited guests & NIELIT Officials.

NIELIT Delhi grabbed first rank in the Academic Audit for the year 2022-23

NIELIT Delhi completed the academic audit for the year 2022-23 of Delhi Centre on 05th February, 2024. Auditor from NIELIT Agartala staff and reviewed the training activities. Centre stands Rank-1 in Peer-Review in Academic Audit-2022-23 with highest marks.

STUDENT SECTION

Career Counselling Sessions

NIELIT Haridwar played a crucial role in providing career counselling at SMJN PG College, Haridwar, and Uttarakhand. During the sessions, students had the opportunity to delve into various career options and receive personalized advice to chart their professional paths effectively. This initiative aimed to empower students to make informed decisions about their careers, equipping them with the necessary insights and guidance to thrive in today's dynamic job market.

NIELIT J&K Awarded by District Administration Baramulla

NIELIT J&K received award of Appreciation from District Administration Baramulla for Aspirational Training Project.

Technical News, R&D Projects, Innovations & Publications

R&D and Skill Development in Electronics Stall at Digital India Skill Summit

NIELIT Calicut, participated in the Future Skills Summit in Guwahati, hosted by MeitY, in collaboration with NIELIT, on 15 February 2024. The team from NIELIT Calicut, Dr. Pratap Kumar S, Director, Shri. Rajesh M, Shri Akula Sri Rama Pavan , Shri. Manoj N, Shri. Sreejeesh S G participated in the Summit and organized the stall which was visited by the Union Minister of State for Electronics and IT, Rajeev Chandrasekhar, other dignitaries and young Indians, thought leaders, industry experts, policymakers, educators, and technology enthusiasts.

LIST OF PUBLICATIONS

Research papers by NIELIT Staff members got published

1. Mr. Saurabh Kesari, Mr. Shashank Kumar Singh, Mr. Prashant Pal, Mr. Kumbar Venkatesh, Mr. Harbhan Kapoor and Mr. Lakhan Khobragade of NIELIT Aurangabad published Research paper titled 'Robotic Arm for Selective Leaf Plucking for Medicinal Use' in ICPEEV, (IEEE Conf).

2. Mr. Saurabh Bansod, Mr. Shashank Kumar Singh, Mr. Prashant Pal, Mr. Yogesh Kumar, Mr. Ganesh Patil, Mr. Dushyant Raj Chaudhary, Ms. Khushbu Yadav and Mr. Ujjwal Kumar, NIELIT Aurangabad published Research paper titled 'Design and study of smart irrigation system using photovoltaic cells based smart IOT system and weather prediction system for energy and water conservation in India' in AICERA/ICIS, (IEEE Conf).

3. A Book Chapter titled "*Various Ultrasound Beamformer Designs and Architectures: An Update*" is published by Dr.Jayaraj U Kidav, et al. in the book "Theory and Applications of Engineering Research Vol. 7" on March 07 2024.

4. NIELIT Ropar staff presented papers in the 2nd NIELIT's International Conf.on Communication, Electronics and Digital Technologies organised at Guwahati, 16th& 17th Feb.2024 [NICEDT-2024].
   a) Enhancing Accessibility for the Visually Impaired: A Multimodal Approach
   b) Blockchain-Based Certificate Verification System" A Decentralised Approach,
   c) Machine Learning, Malware Detection: Secure-AI,
   d) Resume Summarisation-An application of Generative AI.

5. NIELIT Ropar staff presented posters at NICEDT-2024
   a) Electricity Theft Detection in India Using Big Data Analytics and Machine Learning
   b) IoT-Based Remote Control and Monitoring of Electronic Appliances Using ESP8266, MQTT, Node.js and Real-Time Updates with Socket.IO".

6. Jibanjyoti Panda, Awdhesh Kumar Mishra, Pinku Chandra Nath, Saurov Mahanta, Minaxi Sharma, Prakash Kumar Nayak, Yugal Kishore Mohanta, Kandi Sridhar, Wild edible mushrooms to achieve sustainable development goals: Novel sources for food security, health, and well-being, Food Bioscience, Volume 60, 2024, 104277, ISSN 2212-4292.
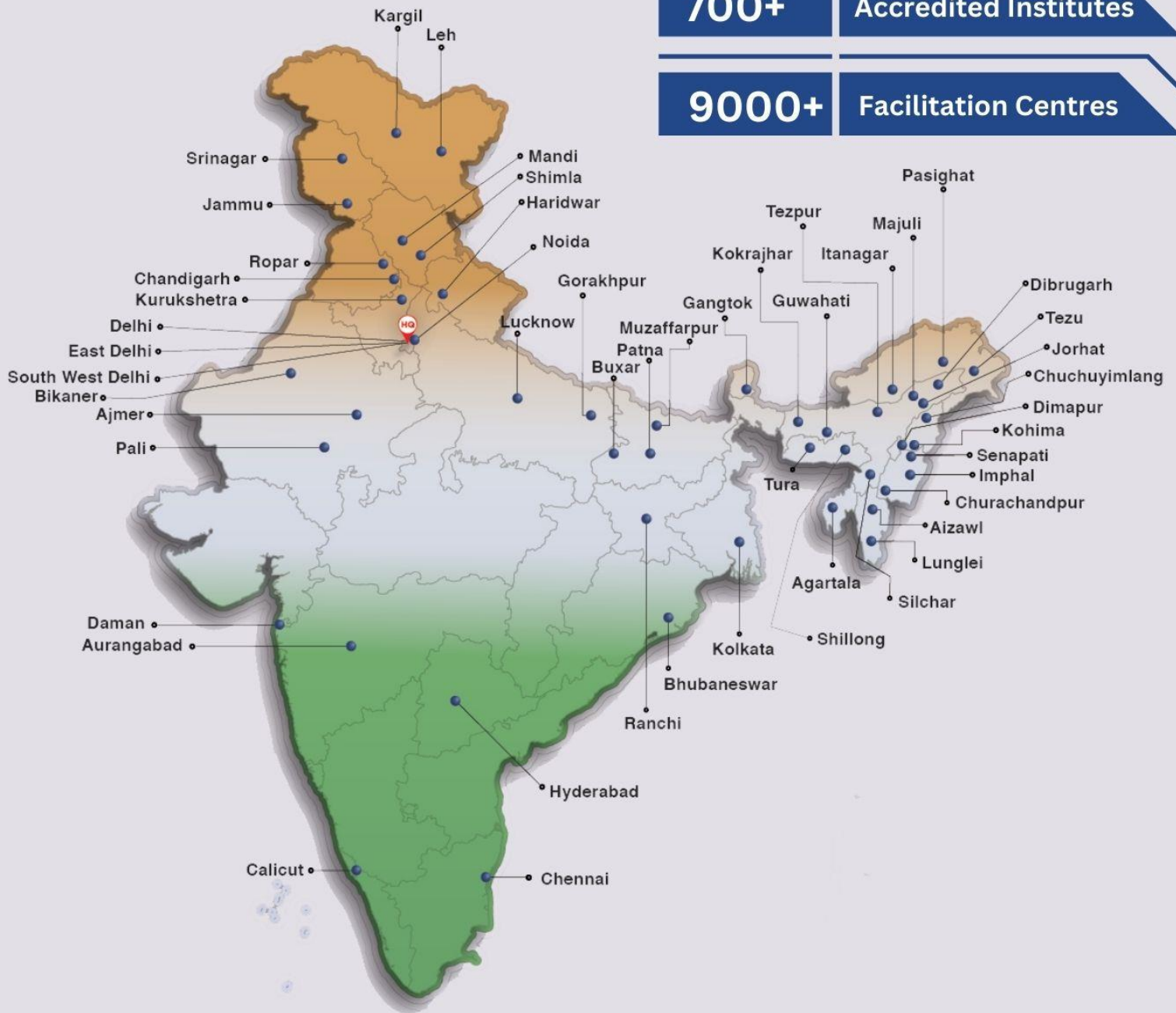
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