



NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY

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Autonomous Scientific Society of Ministry of Electronics and Information Technology, Government of India



NEWSLETTER

Volume 11 | Issue 01 | January 2023 (Quarterly)

HIGHLIGHTS

- Secretary MeitY Visited NIELIT Chennai Centre
- NIELIT Wins DSCI Excellence Award
- NIELIT Annual Day Celebrated
- NIELIT Participated in India Mobile Congress
- Workshop on "Role of 5G in Digital Economy"
- Training on Python Programming for BSF
- MoU between Rajasthan Technical University (RTU) and NIELIT Ajmer
- NIELIT J&K Signed MoU with IT Department of UT of J&K

EDITOR-IN-CHIEF'S DESK



Dear all,

As we ring in the New Year, I would like to take this opportunity to wish you all a happy and wonderful 2023! May this year bring you success, happiness and good health.

I am delighted to present to you the NIELIT Newsletter for the last quarter of 2022. This quarter was special with many important events that we are excited to share with you.

Firstly, the 22nd Management Board meeting of NIELIT was held during this quarter under the chairmanship of Shri Alkesh Kumar Sharma, IAS, Secretary, MeitY at Electronics Niketan, New Delhi wherein various topics related to NIELIT's growth and development were discussed.

We also celebrated the 20th Annual Day of NIELIT at NIELIT Bhavan on 14th December 2022 with Prof. Jai Prakash Saini, Vice Chancellor, NSUT as the Chief Guest. A Kavi Sammelan was also organised during the day, making it a memorable occasion for all.

In addition, I am proud to share that NIELIT has won the first prize for "Excellence in Capacity Building in Cybercrimes, Cyber laws & Digital Forensics" in DSCI Excellence Award 2022.

We hope that you enjoy this edition of the NIELIT newsletter. As always, we welcome your suggestions and feedback at newsletter@nielit.gov.in.

Wishing you all a successful and productive 2023.

Dr Pratap Kumar S.

NEWS AT A GLANCE

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IMPORTANT EVENTS

Management Board Meeting Held

22nd Management Board meeting of NIELIT was held on 31st October 2022 under the chairmanship of Shri Alkesh Kumar Sharma, IAS, Secretary, MeitY at Electronics Niketan, New Delhi. Dr. Madan Mohan Tripathi, Director General, NIELIT & other senior officials from NIELIT, MeitY, HRD and NASSCOM attended the meeting.



Secretary MeitY Visited NIELIT Chennai Centre

Shri Alkesh Kumar Sharma, Secretary, MeitY visited NIELIT Chennai Centre in October 2022. During his visit, he reviewed the ongoing activities of NIELIT Chennai and took a look at the unique Virtual and Remote hardware lab setup employed by NIELIT Virtual Academy for advanced technology training in IT and Electronics in blended mode.



NIELIT Participated in India Mobile Congress

NIELIT participated in four day long 6th edition of Asia's largest telecom festival India Mobile Congress held at Pragati Maidan in New Delhi from 1st to 4th October, 2022. In the pavilion NIELIT showcased Remote Lab, NIELIT Virtual Academy and NIELIT Courses.



Hundreds of visitors visited NIELIT counter and got the information about the various high end courses of NIELIT in emerging technologies.

Winner of the DSCI Excellence Award

One more Feather added to NIELIT 's achievements. NIELIT has won the first prize for "Excellence in Capacity Building in Cybercrimes, Cyber laws & Digital Forensics" in DSCI Excellence Award 2022. NIELIT is recognised as the best academia in Capacity Building in Cybercrime, Cyber Laws & Digital.



23rd Directors Meet Held

Dr. Madan Mohan Tripathi, DG, NIELIT chaired the 23rd Directors Meet held at NIELIT Bhawan, New Delhi on 15th December, 2022 and interacted with the EDs, Directors & Directors-Incharges of NIELIT Centres across India. Strategies for increasing enrollment in skilling, re-skilling & up-skilling across India were the primary focus of the meeting.



NIELIT Annual Day Celebrated

The 20th Annual Day of NIELIT was grandly celebrated at NIELIT Bhavan on 14th December 2022 with Prof. Jai Prakash Saini, Vice Chancellor, NSUT as Chief Guest and Dr Neena Pahuja, Executive Member, NCVET as Guest of Honour.



As part of the celebrations, a Kavi Sammelan was also held. Poems by Hindi poet Gajendra Solanki and other famous poets won the hearts of the people present.

Awards were also given to the Best Training Partners in various categories such as Training the Highest Number of Candidates in Tier-I, Tier II, Tier III and capital cities. Also, the best Training Partner award was given for Training the Highest Number of Candidates under the female category, Digital Literacy Courses and NSQF Skilling Courses.

Dr Madan Mohan Tripathi, DG, NIELIT unveiled the Idol of Goddess Saraswati on the premises of NIELIT Bhawan in the presence of NIELIT Registrar, Directors of NIELIT Centres and NIELIT officials. A video Conferencing Room "प्रज्ञान कक्ष" in NIELIT Bhawan was also inaugurated on the occasion.

An Alumni meet was also organised with participants from across the country working in various organisations & shared their rich experience. An online meeting of NIELIT's Training Partners (TPs) was also held on the occasion under the chairmanship of Dr. Madan Mohan Tripathi, DG, NIELIT to hear their concerns and to seek the input of TPs in achieving future targets for skilling activities.



CONFERENCES/WORKSHOPS

One-week Awareness Programme for "Sr. Citizens/Women"

Adhering to the thought that "Contributing to the Society is our duty not charity", NIELIT Haridwar has continued to conduct "One Week Online Awareness Programme" on "Use of Mobile Applications for Digital Payment and e-Governance services" absolutely FREE-OF-COST for "Senior Citizens/Housewives".

This programme is targeted to make Senior Citizens/Housewives aware of the various e-Governance services launched by Government of India for the benefit of the citizens, with an objective to pave away their fear of using digital mediums. It is a 5-days programme conducted in Online mode for one hour each day.

The programme proved to be very successful and the participants were able to fetch good knowledge about different government and non-government Online platforms as well as about the precautions and security features necessary for safeguarding against common cyber frauds. As per the feedback received from the participants, they feel more confident after the training and wish to take up various tasks such as Electricity Bill payment, generating Jeevan Pramaan Patra, Gas booking, e-Hospital registrations, etc.



from the ease of their home through digital medium. More than 700 Senior Citizens and Housewives have benefited through this programme, so far.

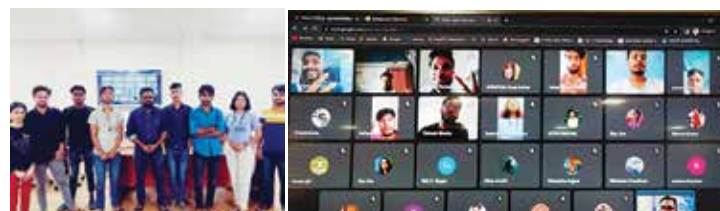
Workshop on “Role of 5G in Digital Economy”

NIELIT Chandigarh at its Ropar campus Chandigarh organised a one-day workshop on 20th December, 2022 on “Role of 5G in Digital Economy”. The Chief Guest of the event was Sh. D.P.S. Kharbanda, IAS, Director Technical Education and Industrial Training Punjab. The workshop was attended by more than 15 Principals and Faculty of various ITI's and Polytechnics of Punjab. The Key-note address on 5G and its role was delivered by Sh. Subhanshu Tiwari, Executive Director, NIELIT Chandigarh. Sh. D.P.S Kharbanda, IAS, deliberated on the need to launch courses on 5G and conduct FDP's on 5G. Team of NIELIT, Dr. Manish Arora, AD, Ms. Anita Budhiraja, JD and Dr. Sarwan Singh, DD coordinated the event and presented various curriculum and courses in 5G which can be introduced in ITI's and Polytechnic.



Online Workshop on Internet of Things

On the event of World Student's Day, NIELIT Ropar organized a two-day online workshop on Internet of Things (IoT) where different projects based on current IoT trends were discussed. The workshop was conducted on 15th – 16th October, 2022 and was conducted by Sh. Parkash Prateek, Senior Technical Assistant, NIELIT, Chandigarh. 87 students attended the workshop.



Workshop on Blockchain Technology

NIELIT Ropar conducted a workshop on “Blockchain” for 205 engineering students and faculty of Rayat Bahra University, Mohali. They were apprised about the concept of Blockchain and its Use Cases. The workshop was conducted by Ms. Anita Budhiraja and Dr. Sarwan Singh, DD, NIELIT. The workshop was inaugurated by Dr Parvinder Singh, Vice Chancellor, Rayat Bahra University.



Workshop on Artificial Intelligence & Machine Learning

A workshop on “Artificial Intelligence and Machine Learning” for the students of BCA 1st, 3rd and 5th semester and PGDCA of Government College, Ropar on 12th October, 2022. The workshop was conducted by Ms. Anita Budhiraja and Dr. Sarwan Singh and was attended by 95 students and faculty members of the college.



Seminar on “Artificial Intelligence and Machine Learning”

NIELIT Chandigarh in association with Punjabi University, Patiala organised a seminar on “Artificial Intelligence and Machine Learning” on 21st November, 2022 which was attended by 86 students of the Computer Applications Department. Students were made aware about the concepts of AI, ML and Data Science and shown some running projects. The experts for this event were Ms. Anita Budhiraja, JD and Dr. Sarwan Singh, DD, NIELIT.



Workshop on “Big Data Analytics” and “AR & VR”

A workshop on “Big Data Analytics” and “Augmented Reality & Virtual Reality” was conducted on 20th October, 2022 for the Engineering students of CGC Landran. The workshop was conducted by Sh. Sachin Chandla and Dr. Sarwan Singh.



Workshop on “Augmented Reality and Big Data Analytics”

A workshop on “Augmented Reality and Big Data Analytics” in association with IET Bhaddal was organised on 1st November, 2022 which was attended by more than 90 students. Students were made



aware about the need for skill building in these emerging areas. The experts for this event were Dr. Sarwan Singh, Deputy Director, NIELIT & Sh. Sachin Chandla, Joint Director, NIELIT Ropar.

Workshop on Artificial Intelligence and Machine Learning



A workshop on “Artificial Intelligence and Machine Learning” for more than 80 students and faculty of Computer Science of Post Graduate College for Girls,

Sector 42 Chandigarh was conducted. The students were shown live projects in Machine Learning also by Ms. Anita Budhiraja and Dr. Sarwan Singh.

Training on Big Data Analytics

Under the Future Prime Skill, NIELIT Chandigarh conducted a training on “Big Data Analytics” from 5th December, 2022. 13 candidates under the scheme were trained by Sh Sachin Chandla, JD.



Webinar on Augmented Virtual Reality in Enabling Sustainable Development

Under the Future Prime Skill, NIELIT Chandigarh conducted a webinar on “Augmented Virtual Reality in Enabling Sustainable Development” in December, 2022. 13 candidates under the scheme were trained by Sh. Sachin Chandla, JD.

Lecture by Indian Army Official

Representatives from the Indian Army delivered a lecture on the joining process in Indian Armed Forces based on their individual preferences and interest, also motivated the students for future endeavours at NIELIT Agartala.



Capacity Building of School Teachers

Capacity Building of School Teachers on IECT are in progress at Choudhury Bari Girls H. S. School, Jirania, West Tripura by NIELIT Agartala.



One Day INDUSTRY CONNECT on Emerging Technologies

NIELIT Imphal organised a one-day INDUSTRY CONNECT on emerging technologies for the students and Faculty members of the centre. The session was delivered by Dr Mani Madhukar, Program Manager, IBM India Pvt. Limited on 30th December, 2022.



One Day Awareness Program on "Cyber Security & Emerging Technologies"

One Day Awareness Program for School & College Students on "Cyber Security & Emerging Technologies" at Jiri College, Kadamtala conducted by NIELIT Imphal and organised by District Skill Committee, office of the Deputy Commissioner, Jiribam district on 14th December, 2022.



NIELIT Imphal has also organised another a one-day Awareness programme on Cyber Security and Emerging Technology under the project NECB 2.0 on 24th October 2022 at Kakching Hr. Sec. School, Kakching Bazar.



Awareness on Use of Mobile Applications for Digital Payment, e-Governance Services, IT Applications, Cyber Security

A three (3) days [15 hours] long training program conducted for Women at Senki Park, Itanagar, Arunachal Pradesh by NIELIT Itanagar Centre from 23rd November, 2022. All together 30 nos. of women were sensitised on Cyber Security, Digital Payment e-Governance Services, IT applications under the NECB 2.0 project sponsored by MeitY, Govt of India.



Workshop on “Cyber Security and Awareness”

A one-day workshop on “Cyber Security and Awareness” was organized at Govt. Women College, Prade, Jammu, on 03rd November, 2022. The workshop introduced participants to the fundamentals of cyber security. All the latest cyber threats, cyber challenges and security measures were discussed in detail.



Seminar on “Blockchain and Other Emerging Technologies”

A seminar was conducted on the topic “Blockchain Emerging Technologies” by NIELIT Srinagar on 15th December, 2022. Technical sessions were held on Information Security, Blockchain and Cryptocurrency. Participants were introduced to various aspects and uses of blockchain technology. They were also made aware of various programs under FutureSkills PRIME for reskilling and upskilling IT manpower for employability. Candidates were also informed about the various blockchain bridge courses available, their benefits, and the registration process for enrolling in these courses. The participants were also shown a virtual lab setup. A total of 120 members participated in it in both online and physical modes.



Awareness Session on Cyber Security

Under the project “Initiative for Cyber Security Awareness Society in NE States”, the Department of Computer Science, Tetso college in collaboration with NIELIT Kohima organised a Cyber Security Awareness Workshop under the theme “See Yourself in Cyber” for the Staffs and students of, Tetso College, Dimapur. Altogether more than 100 students along with the HoDs of various departments and staff attended the Awareness Workshop.



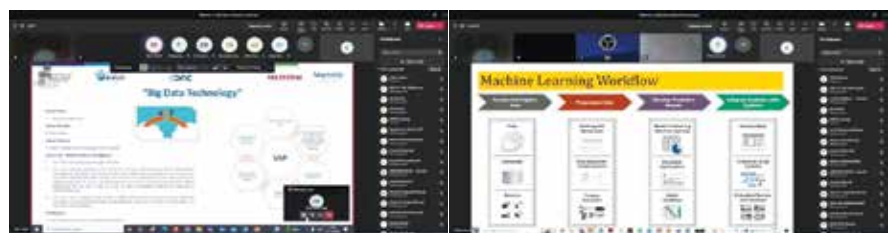
Awareness Program on Emerging Technologies for School

NIELIT Kohima conducted a workshop on “Cyber Security and Emerging Technologies” for the staff and students of Delhi Public School Dimapur succeeding to increase access to cyber security and alongside with the goal of helping to reduce the talent deficit and provide employment opportunities in this field.



Webinar on Big Data Analytics & Machine Learning

A webinar was conducted on Big Data & Machine Learning by NIELIT Kolkata in collaboration with C-DAC Noida on 31st October, 2022. Ms Sharmistha Bhattacharjee, Scientist ‘D’, NIELIT Kolkata and her team coordinated and successfully conducted the program.



Informative sessions were organized along with demos to register in the Bridge Course by an interactive Question and Answer session. At the end of the session, a feedback link was shared with the participants for query clarification and follow-ups related to the Bridge Course in Big Data technology. More than 450 candidates registered and out of them more than 90 candidates participated in the webinar to make it successful.

Cyber Security Awareness Workshop

NIELIT Patna conducted a day long Cyber Security Awareness Workshop on 18th October, 2022 at Frontier Headquarters, SSB Patna on this year's theme 'See Yourself in Cyber: Together we make it Safer', focusing on the 'people' part of cybersecurity, providing information and resources to help spread awareness.



Workshop on "Cyber Security"

NIELIT Ranchi organized a workshop on "Cyber Security" on 25th November, 2022 for 25 nos. officials of Co-operative Department, Govt. of Jharkhand and Department of Revenue, Registration & Land Reforms Govt. of Jharkhand. Shri. D S Oberoi, Director/Scientist 'F' of NIELIT Ranchi conducted Technical session.



Online Workshops on Python

Online workshops on Python (For Data Analysis and Machine Learning), Python for Data Science, Big Data Using Hive were



conducted for 2 days each in online mode on 1st November, 2022 by Ms. Anita Budhiraja for 32 students, on 7th November, 2022 by Dr Sarwan Singh for 25 students and on 1st December, 2022 by Ms Meenu Dhir for 56 students respectively.

CORPORATE TRAINING/ FDPs

Workshop for Sr. Police Officer on Emerging Crime in Cyberspace

NIELIT, Kohima and Nagaland Police jointly conducted a two days workshop for Nagaland Senior Police Officers on "Emerging crimes in cyberspace: Role of Digital Forensics in Cybercrime Investigations". All ranks of Senior Officers led by DGP, Senior Officers from PHQ, SP's, Unit Commandant attended the workshop.



Training on Python Programming for BSF

6 days Training on Python Programming for Border Security Force (BSF), HQ Tripura Frontier organised by NIELIT Agartala on 24th December, 2022. Certificates was also distributed to BSF Personnel.



Training Program in Association with DGR for Army, Navy & Airforce Officials

NIELIT Aurangabad in association with Directorate General Resettlement has conducted a training program in Certified Multimedia Developer. Army, Navy and Air force Officials from all over the country participated in the training program. The aim of this training is to enable them to become self-employable, entrepreneurs and industry ready. Training on soft skills and NCS portal training was also imparted to the course participants. Under this program 20 candidates have undergone training from 17th September to 09th December, 2022 at NIELIT Aurangabad.



NIELIT Digital Literacy Courses for Master Trainers of Union territory of Lakshadweep

As part of New Education Policy 2020 to introduce vocational education from grade 6th onwards, NIELIT Calicut proposed a scheme to implement Digital Literacy Courses



ACC, BCC & CCC and NIELIT O level. The same has been approved in principle by the Lakshadweep Administration. Subject experts from the U.T after discussions with Calicut faculty recommended starting with implementation of NIELIT DLC for 6th to 8th grade in this academic year. Subsequently a ToT was conducted for 23 Primary School Teachers Master Training in Course on Computer Concepts (CCC) for UT of Lakshadweep teachers of the Union territory in ACC/BCC/CCC. The training started on 20th December, 2022 at NIELIT Calicut.

Orientation Program for Technical Staff of NIELIT Pan India

An "Orientation Program" for the technical staff of NIELIT PAN India was conducted from 31st October, 2022. The Program of three weeks covered topics like Python, Artificial intelligence, Machine Learning and Deep Learning, Internet of Things (IoT), Blockchain, Cyber Security and Case Studies. Sh Subhanshu Tiwari, ED, NIELIT Chandigarh welcomed the participants and the inaugural speech was given by Dr M. M. Tripathi, DG, NIELIT. Ms Anita Budhiraja, JD and Dr Sarwan Singh, DD started the full day training on AI and ML.



Skill Development for DRDO Officials

A Skill Development MTS batch for the staff of DRDO was conducted which was attended by DRDO staff PAN India. It was conducted for 2 weeks with 16 candidates and commenced on 14th November, 2022. Basic office skills and PC and printer maintenance. It was conducted by Ms. Meenu Dhir, JD and Dr Sarwan Singh, DD, NIELIT.



Faculty Development Programme for School Teachers

A two-day faculty Development Programme was conducted for school teachers of M C Jolly D.A.V. Public Sr Sec School - Tanda, Punjab on the 'O' Level IT Modules. The residential training was conducted at NIELIT Ropar campus by Ms Meenu Mohindra, Sh Sachin Chandla, Dr Sarwan Singh and Ms Suman. Certificates were distributed to the participants by Sh. Subhanshu Tiwari, ED, NIELIT Chandigarh.



Training of Directorate General of Resettlement Officials

A valedictory was organised on 21st October, 2022 on the conclusion of Directorate General of Resettlement (DGR) sponsored batch of 'Certified Multimedia Developer' with 46 participants. The valedictory function of the batch was honoured by Lt. Col. Kaushalendera Singh, DRZ West & Dr. Manish Arora, Addl. Director who graced the programme with their auspicious presence and awarded the certificates to the participants.



Training of Nagaland Police

A three days Beginner level Training on Cyber Forensics for Police officials was jointly organised by NIELIT, Kohima under the project "Development of Cyber Forensic Training-Cum Investigation Labs in NE States and cloud based Centralised Cyber Forensics Lab Infrastructures".

Lecture on Network Security

A lecture on Network Security was given to the participants of DGR under the Security Awareness Week, in October, 2023. The lecture was given by Sh Amit Jain, JD.



Organized Training on "IT & Cyber Security" for Urban Co-operative Banks

NIELIT Haridwar conducted a training programme on Cyber Security for Co-operative Banks officials including Non Technical, Technical and End Users. The training programme is being conducted under the AVTU mission of RBI.



One Day Awareness Level Training for Police Official on "Tackling Crime in Digital Space"

One Day Awareness Level training for Police officials on "Tackling Crime in Digital Space" organised and conducted by NIELIT Imphal in collaboration with Manipur Police at Manipur Police Training College, Pangei on 14th December, 2022 which was attended by a total of 260 police personnel.



3 Day Beginner's Level Training for 20 Police Officials of CID Special Branch

3 Day Beginner's Level training for 20 Police officials of CID Special Branch on "Digital forensic and Cyber Crime Investigation with Hands-On" organised and conducted by NIELIT Imphal in collaboration with Manipur Police from 5th to 7th December, 2022. R. K. Manbindu Singh, Superintendent of Police/CID(SB), Manipur was the Chief Guest of the function.



"Capacity Building of School Teachers on IECT Technologies"

"Capacity Building of School Teachers on IECT Technologies" under the initiative of MeitY, Govt. of India at Kakching Hr. Secondary between 07th to 12th November, 2022 was organised by NIELIT Imphal in association with the District Skill Committee, Kakching. Twenty-seven teachers attended the training. DC, ZEO, Principal of Kakching Hr. Secondary School and Director, NIELIT Imphal inaugurated the training.



Faculty Development Programme on "Understanding Latex and Python Programming"

Faculty Development Programme on "Understanding Latex and Python Programming" for the Faculties of Mathematics of Colleges of Manipur jointly organised by NIELIT Imphal and Directorate of University & Hr. Education, Govt. of Manipur at NIELIT Imphal, Akampat from 14th November, 2022 to 19th November, 2022.



Five days Faculty Development Programme (FDP) on Big Data Technologies

Five days Faculty Development Programme (FDP) on Big Data Technologies was conducted by NIELIT Imphal from 10th to 14th



October, 2022 for the staff of North-eastern region under NECB 2.0 project and Certificate of Appreciation were presented by Director, NIELIT Imphal, Shri N. Debachandra Singh to the Resource Persons Mr. Pankaj Singh, Lead Data Science Engineer and Ms. Ragini Chouhan, Big Data and Cloud Consultant.

1st Batch of 6 Days Faculty Development Programme Completed

NIELIT Imphal completed the 1st batch of 6 days Faculty Development Programme for lecturers from Govt. Colleges of Manipur (Physics Departments) between 17th to 22nd October, 2022. This programme is being organized as per the MoU signed between NIELIT Imphal and 12 Govt. Colleges of Manipur. A total of 34 lecturers are attending the program.



Capacity Building Program Conducted in STPI Itanagar

A 6 days [36 Hours] long Computer Training program was conducted in December, 2022 by NIELIT Itanagar at the STPI Itanagar, Papum Pare District, Arunachal Pradesh. All together **25** nos. of students were sensitised on Basic Computer and Office Automation under the NECB 2.0 project sponsored by MeitY, Govt of India.



Training of Sales Taxes Department J&K

NIELIT Jammu introduced a training program on “Advanced Features of MS-Excel and Data Analysis” for officers and officials of the Sales Taxes Department of J&K ,UT. An initial batch of 40 officials received training from 05th to 09th December, 2022. The purpose of the training was to acquaint the officials of the State Taxes Department with various advanced features of Ms-Excel and Data Analysis so that they can apply them to their day to day work. The training was the first of its kind and was conducted under the supervision of Dr. Rashmi Singh, Commissioner State Taxes; Namrita Dogra, Additional Commissioner, State Taxes; and Deepak Wasan, Executive Director, NIELIT J&K. The Commissioner of State Taxes Department appreciated NIELIT J&K for taking the initiative to provide such quality training, which will help officials analyse data more effectively.



IT Training of Police Sub-Inspectors

NIELIT Patna completed 3 months long corporate I.T. training and examination of 2277 Police Sub-Inspectors (probationers) of 2019 batch at Bihar Police Academy, Rajgir.



BCC Training Program for officials of Jharkhand Municipal Service

NIELIT Ranchi Organized Five Days Basic Computer Course (BCC) Training Program from 10th to 14th October, 2022 for 63 Nos. Officials of Jharkhand Municipal Service, Govt. of Jharkhand at Shri Krishna Institute of Public Administration (SKIPA), Ranchi.

Workshop on “Cyber Security-Precaution & Prevention”

NIELIT Ranchi organized a workshop on “Cyber Security-Precaution & Prevention” for 63 Nos. officials of Jharkhand Municipal Service, Govt. of Jharkhand at Shri Krishna Institute of Public Administration (SKIPA), Ranchi on 14th October, 2022 as a part of the observation of National Cyber Security Awareness Month NCSAM, October 2022 with the theme “See Yourself in Cyber”. Shri Sachin Kumar Dhar Dwivedi, Sr. Tech. Officer of NIELIT Ranchi conducted a Technical session.



BCC Training Program for Sub-Registrars, Dept. of Revenue, Govt. of Jharkhand

NIELIT Ranchi Organized Five Days Basic Computer Course (BCC) Training Program from 1st to 7th November, 2022 for 10 Nos. Sub-Registrar, Department of Revenue, Registration & Land Reforms Govt. of Jharkhand at Shri Krishna Institute of Public Administration (SKIPA), Ranchi.

BCC Training Program for Assistant Sub-Registrar, Co-operative Department, Govt. of Jharkhand

NIELIT Ranchi Organized Five Days Basic Computer Course (BCC) Training Program from 21st to 25th November, 2022 for 15 Nos. Assistant Sub-Registrar, Co-operative Department, Govt. of Jharkhand at Shri Krishna Institute of Public Administration (SKIPA), Ranchi.



BCC Training Program for Junior Engineers, Water Resources Department, Govt. of Jharkhand

NIELIT Ranchi Organized Five Days Basic Computer Course (BCC) Training Program in 4 Batches for 112 Nos Junior Engineers, Water Resources Department, Govt. of Jharkhand at Shri Krishna Institute of Public Administration (SKIPA), Ranchi.



Beginners Level Training on Cyber Forensics Organized for BSF Meghalaya

Under the project "Development of Cyber Forensic Training cum Investigation Labs in NE States and Cloud based centralized CF Lab Infrastructures" sponsored by MeitY, NIELIT Shillong organized an Awareness on Beginners level training program of 3 day on 20th to 22nd December, 2022 on Cyber Forensics for Border Security Force (BSF) Meghalaya. A total of 22 officials like BSF 2nd In Command, Commandants, Inspector-level Officials were nominated by BSF Meghalaya for the training program.



Organized Workshop on "Cyber Security"

NIELIT Haridwar organized a workshop on Cyber Security on 19th October, 2022. Dr. Akhilesh Kumar Shukla (Senior Technical Officer) delivered a lecture to the officials of Education Department on the importance of Cyber Security.



TRAINING PROGRAMS

Study Tour for Students

A study tour for the students of Twikarma Twisa HS school, Manughat at NIELIT Agartala Manughat study centre on 3rd December, 2022.



Training Program on IoT in collaboration with IIT Jammu

NIELIT Jammu in collaboration with IIT Jammu conducted industrial training of 6 weeks on Internet of Things for 11 candidates of Mahant Bachittar Singh College of Engineering and Technology from 14th November to 19th December, 2022. The curriculum provided comprehensive knowledge about the IoT ecosystem, IoT architecture, application layers, networking protocols, security measures, and integration of applications in IoT. Students learned how to work with Arduino UNO, Arduino Nano, sensors, displays, keypads, relays, and power converters.



Training Program on Python in Collaboration with IIT Jammu

NIELIT Jammu in collaboration with IIT Jammu conducted industrial training of 6 weeks on Python with Data Science and Machine Learning for 7 candidates from 11th November to 30th December, 2022. Students learned the concepts of Python programming and its fundamental data structures, use data science libraries like Numpy and Pandas, apply data analysis, data cleaning techniques, data visualization, and the concepts of machine learning, its models, and the implementation of its algorithms.



Training on Python Programming and Artificial Intelligence at Army School Jammu

Level 01 training was conducted as per the CBSE course curriculum for class 9 students of Army Public School, Ratnu Chak, Jammu from 26th December, 2022 to 6th January, 2023. The objective of the training was to make students aware of the future technologies and teach them programming skills.

SUMMER TRAINING/INTERNSHIPS

Internship on Solar Power Installation

NIELIT Calicut conducted an Internship on Solar Power Installation for BSC students of Devaswom Board Pampa College, affiliated to Mahathma Gandhi University Kottayam. The training was conducted in blended mode for a duration of 40 hours from 07th November to 02nd December, 2022. 19 students benefited from the training.



CAPACITY BUILDING PROJECTS

Awareness Program on Cyber Security and Emerging Technologies

One day awareness program for college student's on "Cyber Security and Emerging Technologies" was held from 10th October, 2022 at various departments of Mizoram University. The awareness program was inaugurated by Prof. KRS Sambasiva Rao, Vice Chancellor of Mizoram University.



Government Official Training in Artificial Intelligence under FutureSkill PRIME

NIELIT Calicut conducted training of the fourth batch of Government Officials in "Artificial Intelligence" through online mode with 40 hours duration during 24th January to 3rd February, 2022 as part of the FutureSkill PRIME Project. A total of 31 participants from Indian Air Force, Military Institute of Technology, Electronics Corporation of Tamilnadu, PSG Polytechnic College, Govt. Polytechnic (Zalaki), RECGVHSS, Chathamangalam, GVHSS Kondotty, GHSS Chavassery and VHSE VELLIMON benefitted from the training. Certificates were issued to the successful candidates.

Capacity Building of School Teachers on ICT Technologies

A six days training programme for school teachers on "Capacity building of school teachers on ICT Technologies" was conducted at Jiribam Higher Secondary School by NIELIT Imphal from 15th to 21st December, 2022. Certificates were distributed to the participants.



Capacity Building of School Teachers on IECT Technologies

NIELIT Imphal in association with the District Skill Committee, Imphal West organised training under "Capacity Building of School Teachers on IECT Technologies", an initiative of MeitY, Govt. of India from 7th to 12th November, 2022. The training was attended by 29 teachers of the schools under ZEO-Imphal West. The second batch of the training programme under NECB 2.0 for Zone-I teachers has been commenced at NIELIT Imphal on 14th November, 2022.



Awareness on Use of Mobile Applications for Digital Payment, e-Governance Services, IT Applications, Cyber security

A three days [15 hours] training program was conducted for Women of East Siang Vender Association, East Siang, Arunachal Pradesh, Women of Mid-Day meal group of East Siang, Arunachal Pradesh and Women of Tulap Group, East Siang, Arunachal Pradesh by NIELIT Pasighat Extension Centre of NIELIT Itanagar from 14th, 19th November & 10th December 2022 respectively.



All together more than 180 women were sensitised on Cyber Security, Digital Payment e-Governance Services, IT applications under the NECB 2.0 project sponsored by MeitY, Govt of India.

Awareness on Use of ICT Technologies for Effective Farming and Marketing

A two days awareness program on use of ICT Technologies for effective farming and marketing was conducted for farmers of Depi Village of East Siang, Arunachal Pradesh in collaboration with "College of Horticulture & Forestry (CAU)", Pasighat on 13th December, 2022 by NIELIT Pasighat Extension Centre at the village.

All together 38 nos. of farmers were sensitized under the North East Capacity Building (NECB) Project 2.0 sponsored by MeitY, Govt of India .



Awareness on Use of ICT Technologies for Effective Farming and Marketing

A two days awareness program on Use of ICT Technologies for effective farming and marketing was conducted for farmers of AAPPTF of East Siang, Arunachal Pradesh on 17th & 18th December, 2022 at NIELIT Pasighat Extension Centre.

All together 45 nos. of farmers were sensitized under the North East Capacity Building (NECB) Project 2.0 sponsored by MeitY, Govt of India.



Computer Training Program for Students

A six days [36 Hours] long Computer Training program was conducted by NIELIT Tezu in the month of December, 2022, at the Govt. Higher Secondary School Tezu, Lohit district, Arunachal Pradesh.

All Together 320 nos. of school students were sensitised under the North East Capacity Building (NECB) Project 2.0 sponsored by MeitY, Govt of India.



Capacity Building Program on Basics of Graphic Designers

A six days [36 Hours] long Computer Training program on Basics of Graphic Designers was conducted by NIELIT Tezu in the month December, 2022 at the NIELIT Tezu, Lohit District, Arunachal Pradesh.

All Together 40 nos. of school students were sensitised under the North East Capacity Building (NECB) Project 2.0 sponsored by MeitY, Govt of India.



Entrepreneurship for Soft Skill Development Training for Artisans/Entrepreneurship

Under the project "Digital Intervention on Handloom & Handicraft Sector for livelihood Enhancement of Artisans of NE States", NIELIT, Kohima under the aegis of Ministry of Electronics & IT (MeitY) organised an awareness program on "Entrepreneurship & Soft Skill Development Program" with an aim to accelerate artisanal growth and creation of repository of artisans in the state. A total of 46 participants took part in the training program creating an overall conducive environment for entrepreneurial growth.



Awareness Program for Farmers on ICT Applications

Under the project "Capacity Building in IECT including training in digital skill-sets and current industry demanding Technologies for various section of society in the NE States", the, NIELIT Kohima in collaboration with Office of the Sub Divisional Agricultural Officer, Jalukie, organised an awareness program for farmers on the use of ICT technologies digital marketing and digital payment for effective farming and marketing.



Advance Computer Course in Cyber Security

NIELIT Patna started Advance Computer course in Cyber Security for 300 Police Sub-Inspectors at Bihar Police Academy, Rajgir on 14th November, 2022. In this corporate training, Police officers are being trained in modules such as Cyber Crimes and legal provisions, Social Media Security, Cyber Law, Cryptography, Network Security, Wireless Security, Operating System Security, Application Security, Digital Payment Security and Cyber Forensics.



Awareness Program on Cyber Security & Emerging Technologies

An awareness program on Cyber Security & Emerging Technologies was conducted by NIELIT Shillong at Umlyangka Presbyterian Secondary School on 30th September, 2022. A total of 132 nos. of Candidates participated in the Program.



Women Awareness Program on Use of Mobile Application for Digital Payment E-Governance Services, IT Application, Cyber Security

Women Awareness Program was conducted by NIELIT Shillong at Mawlyndun P.O Pynursla on 13th December, 2022 under project Capacity Building in IECT including training in Digital Skill sets and Current Industry Demanding Technologies for various sections of society in the NE States. A total of 83 nos of candidates participated in the Program.



Training in Computer Application, Accounting and Publishing Course

NIELIT Shillong organised training programmes in Computer Application, Accounting and Publishing Course at various Colleges/Institutes in Shillong, Meghalaya. Following 10 college/Institutes participated in these courses: Morning Star College, St Micheal Vocational Institute Umsning College, K L Bajoria College, Union Christian College, Sankerdev College, NIELIT Shillong, Buddha Bhanu Saraswati College, Bosco Pnar Jowai, Distar Common Service Centre Sohiong and Softech Computer Voice and Accent Training Centre, Khliehriat. A total of 599 nos. of Candidates registered in the courses.



Training in Solar Power Installation Operation and Maintenance under NECB-2.0 Project

NIELIT Shillong organised training in Solar Power Installation Operation and Maintenance at Morning Star College, Synod College and Softech Computer Voice and Accent Training Centre, Khliehriat in Shillong, Meghalaya. A total of 210 no of candidates participated in the training.

INDUSTRY & ACADEMIA COLLABORATION

MoU between Rajasthan Technical University (RTU) and NIELIT Ajmer

The RTU and NIELIT foresee that there is a vast scope of upcoming technical innovations as there is continuous progress in industrial and other allied sectors. Both parties agree to strive hard to provide all possible technical support to these sectors for upliftment of the IECT related activities of the region/country has signed an MoU on 16th November, 2022.



As per MoU, NIELIT, Ajmer shall undertake conduction, approval, the design and development of course structure, syllabus, eligibility for admission, training, engagement of faculty/staff, stipend to students, budgetary expenditure, equipments and laboratory, infrastructure, conduct of terminal examinations, assessment procedure, continuation of studies, break in studies, award of divisions etc. and RTU shall recognize NIELIT Ajmer as an autonomous institution with its own and independent evaluation system and curriculum structure for the purpose of awarding degrees/diplomas/certificates on the basis of the evaluation and recommendation of NIELIT Ajmer. The RTU shall recognize NIELIT Ajmer as a Research Centre of the RTU for conducting research leading to PhD additionally RTU and NIELIT Ajmer will extend the academic facilities and resources to each other for bilateral advantage.

NIELIT J&K Signed MoU with IT Department of UT of J&K

NIELIT J&K signed and exchanged MoU with the Information technology department of UT of J&K for launching various capacity building programmes, providing IT Manpower and undertaking software projects. The MoU was signed in the presence of Sh. Manoj Sinha, Hon'ble Lieutenant Governor of the UT of J&K, and Sh. Manohar Lal Khattar, Hon'ble Chief Minister of Haryana, during the 25th National E-Governance Conference held at Shri Mata Vaishno Devi University (SMVDU), Katra, Jammu, J&K.



MoU Signed with ESSCI India

To enable and effectively collaborate for Skill Development in Electronics System Design & Manufacturing Sector, NIELIT and Electronics Sector Skills Council of India (ESSCI) has signed an MoU on 16th December, 2022.



MoU Signed with STPI

NIELIT has signed an MoU with STPI on 14th November, 2022 to provide opportunity for global experience and to facilitate the advancement of knowledge to the youth of India. MoU was signed in the presence of



Dr. Madan Mohan Tripathi, DG, NIELIT, Sh. Arvind Kumar, DG, STPI and senior officials from NIELIT and STPI.

MoU Signed with IIM Raipur

NIELIT has signed an MoU with Indian Institute of Management–Raipur (IIM Raipur) to develop joint Training & Research Programs, exchange of students and faculty members as well as other academic activities, research and publication.



Signed MoU with Dev Sanskriti Vishwa Vidyalaya



Shri Anurag Kumar, Director-In-Charge, NIELIT Haridwar and Dr. Chinmay Pandya, Pro Vice Chancellor of Dev Sanskriti Vishwa Vidyalaya, Haridwar signed an MoU on 19th October, 2022. The MoU focusses on inter institutional association for promoting IT skilling among students.

Signed MoU with Roorkee Institute of Technology, Roorkee

Shri Anurag Kumar, Director-In-Charge, NIELIT Haridwar and Dr. Parag Jain, Director, Roorkee Institute of Technology signed MoU on 8th December, 2022 for training/ internship, FDP and academic collaboration.



Signing of MoU with College of Manipur

NIELIT Imphal signed MoU with 12 Colleges of Manipur under the Directorate of University and Higher Education, Government of Manipur in the presence of Dr. Rangitabali Waikhom, IAS, Director, University & Higher Education, Govt. of Manipur for technical partnership and IT Capacity building programmes on 7th October, 2022 at NIELIT Imphal, Akampat.



Signing of MoU with Delhi Public School, Dimapur

NIELIT Kohima signed an MoU with Delhi Public School, Dimapur, with an objective to impart various training programmes in the field of IECT and emerging technologies. The MoU states to provide different opportunities for students and also take initiatives such as organising lectures, FDPs, workshops on latest fields and technologies such as AI, 3D Printing, Blockchain and IoT and would extend support in up-skilling the teachers of the school as well. The MoU was signed by L Lanuwabang, Director I/c, NIELIT Kohima and BK Nanda, Principal of DPS Dimapur, in the presence of Daniel Meren, Scientist 'E', NIELIT, and Dr Aotoshi, pro-vice chairman of DPS, Dimapur.



Signing of MoU with TETSO College, Dimapur

NIELIT Kohima signed an MoU with TETSO College Dimapur for initiating new technical programmes and imparting training at the college. The main objective of MoU was to enhance institutional effectiveness by leveraging diverse skills and perspectives toward shared goals, leading to innovation and improved outcomes. Shri Daniel Meren, Scientist "E", NIELIT Dimapur signed the MoU on behalf of NIELIT and Dr Hewasa L. Khing, the Principal of TETSO College signed on behalf of the college.

MoU with IIT, Patna

NIELIT Patna signed an MoU with Indian Institute of Technology (IIT), Patna to jointly start Future Skill Training programs like Artificial Intelligence and Internet of Things (IoT).



STUDENT SECTION

e-seminar on "Understanding AWS EC2"

Final Students of BCA attend e-seminar on "Understanding AWS EC2" on 11th October, 2022. The resource person for the seminar is Shri Mridul Pachani, STO, NIELIT Guwahati.



Cultural Day Celebration

Cultural celebration is requisite in order to foster respect and open-mindedness for varied diversity, in growing with good ethics and understanding other heritage. In admiration for the land of diversity, the NIELIT Kohima Students celebrated the Cultural Day on 25th October, 2022.



Guru Gobind Singh's Birthday Celebrated

Students organised an event on Guru Gobind Singh's Birthday on 8th November, 2022. They sang religious songs with instruments. The staff members and students attended the event.



Work Based Learning Project

NIELIT Ropar Work Based Learning (WBL) project students are actively participating in the organisation work and also upskilling themselves on AIML, Big Data, AR/VR and IoT.

Students Attended Online the Inauguration of SemiconIndia Future Design Roadshow under the DLI Scheme

Students of NIELIT Aurangabad attended online the inauguration of SemiconIndia Future Design Roadshow under the DLI Scheme organized by MeitY on 17th October, 2022 at Karnavati University Gandhinagar, Gujarat under the guidance of Hon'ble Minister of State for Electronics & Information Technology and Skill Development & Entrepreneurship, Shri Rajeev Chandrasekhar to motivate the young entrepreneurs, engineers and students across the country.



Orientation Program for First Year Students of B.Tech

Orientation program for first year students of B.Tech was conducted at NIELIT Aurangabad. Dr. Sanjeev Kumar Gupta, Executive Director addressed the students. Mr. Sasi Kumar Gera, Dean (Academics), and Shri. Lakshman K also spoke during the orientation session.



TEDx Event at NIELIT Aurangabad

NIELIT Aurangabad hosted TEDx NIELIT Aurangabad on 04th December, 2022 at Dr. BAMU Auditorium, Dr. BAMU Campus, Aurangabad. The theme of the event was "Be daring, be different, be impractical". The six speakers at the function were 1. Yashraj Ashraj Mukhate (Music producer, composer, and social media personality) 2. Vanika Sangtani (Storyteller, Spoken word Artist), 3. Sahil Horane (Stand-up comedian and Youtuber) 4. Mohammad Shams Alam Shaikh (Indian Para Swimmer) 5. Agrata Shanaya Shukla (Indian Author and Podcaster), 6. Babita Patney (Acid attack survivor, activist, and numerologist). All the speakers gave motivational talks and shared their inspiring stories. The students of the NIELIT Aurangabad played a major role in organizing this event.



Mega Job Fair

A Mega Job Fair was organised by the Model Career Centre of NIELIT Kolkata in association with National Career Service Centre for SC/ST on 2nd December, 2022 at VRC(H) Building, Salt Lake, Kolkata. The fair was inaugurated by Shri V Krishnamurthy, Executive Director, NIELIT Kolkata and Shri Santosh Kumar, Sub-Regional Employment Officer, National Career Service Centre for SC/ST and was coordinated by MCC Team - Shri



Tapas Trivedy, Sc-D and Smt Rashmi Mandal Vijayvergiya, Sc-C, Smt Debapriya Bhattacharrya, PTO, Smt Krishnakali Kar Khan, STO and from Admin Department Smt Varsha Deshmukh, AD(Admin) actively participated in the program. A total of 13 companies interviewed more than 250 job seekers and shortlisted more than 150 of them.



Programme on Career Talk

A Career Talk was organized at NIELIT Kolkata on 19th October, 2022 by NSCS (National Career Service Centre) for SC/ST, Kolkata. Shri V Krishnamurthy, Executive Director



NIELIT Kolkata inaugurated the talk and delivered a keynote address emphasizing on the importance of career skills to motivate young candidates about the career options and opportunities available to them. The key highlights of the event were career related talks and confidence building. Smt. Moumita Halder, Deputy Director of Employment, Regional Employment Exchange, Govt. of West Bengal delivered a motivating speech for the SC/ST job seekers and NCS registered candidates. Smt. Nilanjana Bhattacharya, Placement Coordinator, Regional Employment Exchange, Govt. of West Bengal also acknowledged students about the upcoming Job Drives and requirements by different job providers.

Smt. Sushmita Chowdhuri, YP, MCC, District Employment Exchange, Budge Budge gave a presentation on the NCS portal and different communication skills training available free of cost on the portal for which candidates can enrol for communication skill and skill upgradation training by Microsoft and TCS. These training sessions are online and are being offered free of cost. Smt. Nirmali Bardalai, Instructor (Stenography), NCS for SC/ST, Kolkata and Shri Tapas Trivedy, Scientist-D, Smt. Rashmi Mandal Vijayvergiya, Scientist-C and Smt Varsha Deshmukh, Assistant Director (Admin) from NIELIT Kolkata coordinated the Programme and also actively participated. The talk was also attended by Shri Rajendu Paul, Placement Coordinator, Regional Employment Exchange, Govt. of West Bengal and Shri Saurabh Kumar, NCS for SC/ST, Kolkata.

Workshop on 'Important Aspects of NIELIT Examinations'

The Ramakrishna Mission Shilpamandira Computer Centre, Belurmath and NIELIT Kolkata organised a workshop on the 'Important aspects of NIELIT Examinations' on 20th October, 2022 in the Belurmath premises wherein Shri V. Krishnamurthy, Executive Director, NIELIT Kolkata was the Guest Speaker and he delivered an enthralling talk on the importance of the various courses offered and examinations conducted by NIELIT at national level. The workshop was very informative, interactive and immensely beneficial to the huge number of students present there. Around 250 students of various institutions of the Ramakrishna Mission attended the workshop and were enlightened.



CSR ACTIVITIES

Webinar on Entrepreneurship Development

A webinar on Entrepreneurship development was organised for the Directorate General of Resettlement (DGR) sponsored defense officials at NIELIT Chandigarh with 53 participants. Dr Indu Arora, Associate Professor and Head, Department of Computer Science and Application, Mehr Chand Mahajan DAV College for Women, Sector 36A Chandigarh handled the session.



Workshop on "Cyber Security and Ethical Hacking"

A workshop on "Cyber Security and Ethical Hacking" was conducted during cyber security awareness month at Government College Ropar on 11th October 2022. Sh Raminder Singh, JD handled the sessions.



Seminar on "Cyber Hygiene"

A seminar on "Cyber Hygiene" was conducted at SGHS polytechnic College, Ranwan on 17th October, 2022. Sh. Amit Jain, JD and Sh. Akash Sharan Scientist were the resource persons.



Awareness Programme on Cyber Security

NIELIT Haridwar organized Webinar on "Cyber Security" at Saraswati Vidya Mandir Inter College, Haridwar on 8th October, 2022 in commemoration of National Cyber Security Awareness Month (NCSAM). Director-In-Charge Shri. Anurag Kumar highlighted the importance of Cyber Security and Dr Akhilesh Shukla delivered a lecture on the topic.



Awareness Program on Cyber Security & Emerging Technologies

One day awareness program on Cyber Security & Emerging technologies was conducted on 22nd October, 2022 by Pasighat Extension Centre of NIELIT Itanagar. 166 school students were sensitised under the North East Capacity Building (NECB) Project 2.0 sponsored by MeitY, Govt of India.



Cyber Security Awareness Programme

A Cyber Security Awareness programme (including practical demonstration) was conducted on 29th October 2022 for the students under MeitY and State funded livelihood projects at Cooch Behar, Alipurduar, and Darjeeling on the eve of Cyber Security Awareness Month (October-2022) through online mode. Dr Kalyan Baital, Scientist-D was the resource person and about 50 students and faculties were present in the workshop.



Special Campaign at NIELIT Shillong

Given the Special Campaign 2.0 planned by MeitY, an outdoor Swachhata activity was organized by NIELIT Shillong on 12th October, 2022. All the NIELIT Shillong staff members and students took part in cleaning the Institute Campus area.

INAUGURATIONS & OTHERS

Director General NIELIT Visited NIELIT Daman

NIELIT Daman is a new NIELIT centre set up in the Union Territory of Dadra Nagar Haveli and Daman & Diu. It is a project of the Ministry of Electronics and Information Technology and was realized with the support of Honourable Administrator DNH & DD, Shri. Praful Patel. NIELIT Daman has been established to provide training in cutting-edge technologies and address the gaps in the trained manpower for the industries in this area.



Dr. Madan Mohan Tripathi, Director General, NIELIT visited NIELIT Daman on 10th December, 2022 along with Dr. Sanjeev Kumar Gupta, Executive Director, NIELIT Aurangabad. The employees and students of NIELIT Daman extended a warm welcome to the guests. The Director General appreciated the state-of-the-art facilities set up at NIELIT Daman.

On this occasion, a Heads of Institutions Meet was organised with the objective of exploring the avenues of skilling up the student community to meet the industry needs in this part of the country. Dr. Aruna Govada, Assistant Director (IT) Daman, Shri Krishna Kumar, Asst. Director (IT), DNH, Dr. Avinash R. Chaudhari, Principal, Govt. Engineering College, Dr. S. Kumar, Principal, Government College, Dr. T. Balaganesan, Principal, Government Polytechnic, Shri Sandeep Sachan, Director, NIFT Daman, Dr. Rakesh Bhujade, HoD IT, Govt. Polytechnic and Smt. Vimala Mathew, Director in Charge, NIELIT Daman was also present in the meeting.

Dr. Madan Mohan Tripathi, Director General, NIELIT stressed on the need to create meaningful associations between the institutions with the objective of generating quality manpower and developing skilled professionals. The participants of the meeting also exchanged their ideas and agreed to work together in all possible ways in the future.

DG NIELIT visited NIELIT Ropar

NIELIT Ropar campus was visited by Dr M.M. Tripathi, DG, NIELIT. He addressed the staff of the Centre laying stress on Digital Courses and enhancing capacity building in the area of IT and Electronics. He reviewed the progress of the Centre also.



Director General, NIELIT Visited Lunglei Extension Centre

Director General of NIELIT, Dr. Madan Mohan Tripathi along with Dr. Jayanta Singh, Executive Director, NIELIT Guwahati spends their valuable time to visit NIELIT Aizawl and inspect the construction of new extension centre building at Pukpui, Lunglei during 20th-22nd November, 2022.



During his stay, the Director General has an interaction with the Officer's and Staff of NIELIT Aizawl and Lunglei. The Director General also directed the constructor of NIELIT Lunglei building to make maximum efforts to complete the construction at the earliest.

Hon'ble Director General, Dr. Madan Mohan Tripathi graced the inauguration function of "Cyber Crime and Security Awareness Workshop" as Chief Guest. He delivers a motivational and inspiring speech to the audience, and finds time to interact with the students of NIELIT Lunglei. His presents have been very fruitful for NIELIT Aizawl and Lunglei extension Centre.

Visit of DG NIELIT to NIELIT Aurangabad

During the visit of Dr. M M Tripathi, DG, NIELIT to the Aurangabad Centre on 09th December, 2022, he first addressed the students along with staff members. He also held discussions with all Academic staff (S&T and Non-S&T) and Administrative & Finance Staff. He also visited every major Lab of the Centre, reviewed projects of final year B. Tech. students and provided his valuable suggestions. Dr. M. M. Tripathi and Dr. Sanjeev Kumar Gupta, Executive Director, NIELIT Aurangabad also visited L & T Skill Trainers Academy, Mumbai on 10th December, 2022.



Visit of DG NIELIT to NIELIT Srinagar Centre

Dr. Madan Mohan Tripathi, DG NIELIT visited Srinagar on 12th November, 2022 and had a fruitful discussion with Hon'ble Lieutenant Governor, Sh. Manoj Sinha, at Raj Bhavan, Srinagar, J&K. Subsequently, he visited the NIELIT Srinagar campus and reviewed the progress of the centre's activities.



Extension Centre Muzaffarpur

Academic activities started at NIELIT Extension Centre, Muzaffarpur. At present CCC and NIELIT 'O' Level batches are running.



NIELIT Extension Centre, Muzaffarpur main building



Students performing Practicals in Computer Lab at NIELIT Extension Centre, Muzaffarpur



Students learning concepts in Theory classroom at NIELIT Extension Centre, Muzaffarpur

Extension Centre Buxar

Academic activities started at NIELIT Extension Centre, Buxar. At present CCC, O Level and Industrial training on Python courses are running. Also, a new batch of BCC, CCC, NIELIT 'O' level & 'A' level are going to start from February, 2023.



Entrance view of NIELIT Extension Centre, Buxar



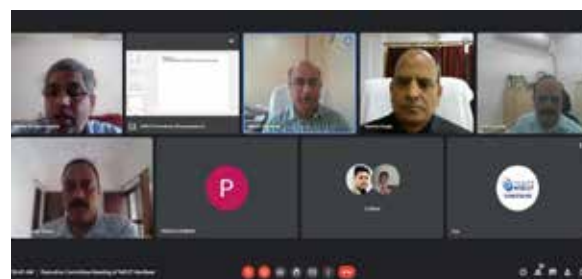
Main building of NIELIT Extension Centre, Buxar



Students learning concepts in Theory classroom at NIELIT Extension Centre, Buxar

1st Executive Committee Meeting of NIELIT Haridwar

1st Executive Committee Meeting of NIELIT Haridwar was held on 19th October, 2022 under the Chairmanship of Dr. M.M. Tripathi, Director General, NIELIT.



Additional Secretary, Ministry of Labour and Employment visited NIELIT Itanagar Centre

Dr. Shashank Goel, Additional Secretary, Ministry of Labour and Employment, visited NIELIT Itanagar Centre on 3rd December, 2022 and interacted with the students of DGE sponsored courses namely IT 'O' level & CHM O level. He also interacted with the faculty members of the Centre and appreciated the efforts put in by the Centre in IT skill development of the youths of the state. He further advised the Director In-charge, NIELIT Itanagar to put in efforts to provide job opportunities to all the students undergoing training in the said courses.

NIELIT Jammu Attended the 8th National Conference & Exhibition on Emerging and Innovative Trends in Engineering Technology

NIELIT Jammu attended the 8th National Conference & Exhibition on Emerging and Innovative Trends in Engineering Technology (NCEEITET), organized by Govt. College of Engg. & Technology, Jammu in technical

collaboration with the Indian Institute of Technology, Kharagpur in association with the World Consortium of Universities on December 1st and 2nd 2022. The conference was organized to provide a common platform for academicians, researchers, students, and industry professionals to interact and deliberate on the latest trends and advancements in technology, research avenues, and industry requirements, so as to raise academic standards, build collaborative alliances, and above all, provide much-needed exposure to the students of different engineering colleges and other technical institutions across J&K. During the event, NIELIT Jammu students demonstrated IoT projects such as Neopixel RGB LED Strip Control Using Arduino Uno, HC-05 Bluetooth Module, and MIT App Inventor; Smart Dustbin Using Arduino Uno, LCD, Ultrasonic Sensor, and Servo Motor; and Smart Notice Board Using WiFi Module NodeMCU, Web Server, LCD, and I2C Module.



Technovate Startup Challenge

NIELIT Kohima in collaboration with the Department of Industries & Commerce and Start-Up Nagaland brings into light with an aim to accelerate and promote local entrepreneurs in the State by initiating a workshop on Start-Up under the theme "Technovate-Think, Visualize, Realise". With a vision to encourage an entrepreneurial mindset to the youths a competition was also initiated where a total of 17 Startups enrolled for the competition.



Placement Drive at NIELIT Jammu

Placement drive was conducted at NIELIT Jammu on 18th November, 2022, by RevTech Services Pvt. Ltd. and Smart TechLink Solutions Inc. A total of 30 candidates applied for the interview, and 10 were selected.



Computer Based Typing Test

NIELIT Srinagar conducted computer-based typing tests for 4,244 candidates for the post of office Assistant and Stenographer for Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar (SKUAST-Srinagar) from 22nd December, 2022 to 4th January, 2022.



NIELIT J&K administered computer-based typing tests at both Srinagar and Jammu for 1723 in-service police personnel of Police Headquarters J&K from 28th November, 2022 to 2nd December, 2022. Computer-based typing test for 27 officials of the Directorate of Employment was conducted on 31st October, 2022 at NIELIT Srinagar. On 16th November, 2022 NIELIT Jammu also conducted computer-based typing test for 11 officials of University of Jammu.

Placement Drive through Model Career Centre NIELIT J&K, Srinagar

Model Career Centre, NIELIT J&K, Srinagar organized a placement drive in collaboration with WISHFIN Pvt. Ltd, Srinagar, to hire professionals for the post of Assistant Relationship Officers on 28th December, 2022. Around 130 candidates registered, and 16 were shortlisted.



Awareness Programme on National Cyber Security Awareness Month

NIELIT Haridwar organized a Cyber Security awareness programme at NIELIT Haridwar campus on 11th October, 2022 as a part of observation of National Cyber Security Awareness Month.



Celebration of National Cyber Security Awareness Month

The National Cyber Security Awareness Month was celebrated. In connection with this a session on cyber awareness was arranged on 14th October, 2022 on the Topic: "People - Essential factor to effective Cyber Security" at NIELIT Calicut. Smt. Sheela V. S, Scientist/Engineer 'F' administered the pledge to a gathering of all officers at NIELIT Calicut. All employees and students attended and benefitted from the seminar.



Job Fair at NIELIT Aurangabad

Under the Model Career Centre project, NIELIT Aurangabad in association with Placement Cell (Dr. BAMU) and District Skill Development, Employment and Entrepreneurship Department, Govt. of Maharashtra organized 58th Job fair on 19th October, 2022. More than 35+ companies participated for about 1000 job vacancies. More than 1500 candidates registered for this event so far. Shri Haribhau Kisanrao Bagade, ex-Speaker of Maharashtra Legislative Assembly and hon'ble member of Maharashtra Vidhan Sabha since 1985 was the Chief Guest for the function and Dr. Bhalchandra Baburao Waykar, Dean (Science & Technology) was the Guest of Honor. Shri Suresh Warade (Assistant Commissioner, Skill Development Employment Entrepreneurship & Innovation Department, Government of Maharashtra) and Dr. Girish Kale (Placement Officer at Dr. Babasaheb Ambedkar Marathwada University) helped NIELIT Aurangabad in the organization of the job fair and mobilization of Companies and candidates.



NIELIT Calicut conducts Job Fair at Chengannur

Model Career Centre Calicut, Ministry of Labour & Employment, Govt. of India, in association with SIGN Kerala and JCI, conducted a Free Mega Job Fair on 11th December, 2022 at Chinmaya Vidyalaya Chengannur, Kerala to hire potential.



MCC Calicut team visited several colleges in and around Kozhikode to disseminate the information on the event to their alumni groups. Social media & email campaigns were also used as a tool for reaching out to the job seeker. As a result, around 5000 job seekers were mobilized, 2400 were screened, and 1242 candidates were shortlisted. The whole process was channeled through the National Career Service (NCS) Portal.

National Youth Day Celebrated

National Youth Day is being celebrated on 12th January, 2023. All staff members & students paid homage to Swami Vivekananda on his Jayanti.



Cyber Jaagrookta Diwas Celebrated

Initiative for Cyber Security Aware Society in NE States and Cyber Jagrookta Diwas jointly organised by NIELIT Aizawl and Mizoram Police was conducted at Taxation Auditorium, MINECO on 6th October, 2022 in the presence of Shri Devesh Chandra Srivastva (IPS) DGP, Mizoram as Chief Guest. Shri T. Gunendra Singh, Director i/c NIELIT Aizawl also gave an awareness speech about Cyber Jagrookta Diwas in the session.



Vigilance Awareness Week

NIELIT HQs and Centres observed "Vigilance Awareness Week 2022" from 31st October to 6th October, 2022 with the theme of "Corruption free India for a Developed Nation". The week-long celebrations started with an integrity pledge taken by staff and students.

Various awareness activities like slogan writing competitions, poster-making competitions, seminars, and vigilance awareness walkathons were held to spread awareness about anti-corruption and the importance of honesty and integrity by NIELIT Centres.



Vigilance Workshop at NIELIT Headquarters



Pledge taking at NIELIT Aizawl Centre



Observance of Vigilance Awareness Week at NIELIT Calicut



Observance of Vigilance Awareness Week at NIELIT Chandigarh



Observance of Vigilance Awareness Week 2022 at NIELIT Jammu



Observance of Vigilance Awareness Week 2022 at NIELIT Kolkata

Workshop on Vigilance Awareness

A workshop on awareness about Vigilance was organized on 4th November, 2022 at NIELIT Bhawan as part of observance of Vigilance Awareness Week. The workshop was graced by Smt. Savita Utreja, CVO, NIELIT, Dr. M.M. Tripathi, DG, NIELIT, Smt G. Sreedevi, CVC, NIELIT and officers of NIELIT HQ. NIELIT Centres have joined the workshop online.

Constitution Day Celebrated

On the occasion of Constitution Day (26th November, 2022), Dr Madan Mohan Tripathi, DG, NIELIT unveiled the preamble of the Indian Constitution installed in NIELIT HQ. NIELIT officials led by DG, NIELIT also read the Preamble of the Indian Constitution & Fundamental duties to build a stronger India. The constitution day was celebrated in a befitting manner across NIELIT centres.

Sh. Subhanshu Tiwari, ED, took the pledge along with the NIELIT Chandigarh other staff on the occasion of Constitution Day. NIELIT Haridwar's staff celebrated Constitution Day by reciting the Preamble of the Constitution of India.

Samvidhan Diwas (Constitution Day) was celebrated on the subject "India - the Mother of Democracy" at both the campuses of NIELIT Kolkata. The Preamble of the Constitution was read by the students and employees of the Centre to commemorate the adoption of the Constitution of India as Jan Bhagidari and to honour and acknowledge the contribution of the Founding Fathers of the Constitution.

A talk on the importance of the Preamble of the Constitution was also delivered by Shri V. Krishnamurthy, Executive Director of the Centre at the JU Campus of the Centre. The Preamble of the Constitution was also read by the employees at the Salt Lake Campus, led by Shri Rabin Karmakar, Scientist-C of the Centre.



Fit India Freedom Run 3.0 Campaign

NIELIT HQ Staff actively participated in Fit India Freedom Run 3.0 on the occasion of Gandhi Jayanti. The Staff members have taken part in Plog Run and spread the message of Swachhata, encouraging citizens to keep their surroundings tidy.



Centre enthusiastically participated in the event. prizes were distributed to the first three winners.

Fit India Freedom Run 3.0 campaign was organized at NIELIT Kolkata on 19th & 20th October, 2022 at the Jadavpur University Campus and Salt Lake Campus of the Centre respectively to encourage fitness and help all to get freedom from obesity, laziness, stress, anxiety, and diseases etc. More than 80 participants including the Executive Director, employees and students of the



A run event has been organized on 10th October, 2022 under the "Fit India Freedom Run 3.0 – Azadi ka Amrit Mahotsav" programme at NIELIT Patna Campus. Employees and Students of NIELIT Patna participated in the event enthusiastically.

NIELIT Shillong Employees and staff Participated in the Fit India run program to create awareness and promote fitness on 20th October, 2022. The 5 km stretch from NIELIT Shillong, Nongrim hills to Dhankheti via Don Bosco and back to office via Edmunds School road was covered by all participants during the program.

Addressed a Session on "Career Oriented Courses"

NIELIT Haridwar organised a session on 3rd December, 2022 for students of Kisan Inter College, Kashipur. Dr. Akhilesh Kumar Shukla (Senior Technical Officer) and Shri Nikhil Ranjan(Programme Coordinator) addressed the students and explained to them about career-oriented courses which are offered by NIELIT.



Ropar MLA Visited NIELIT Ropar

NIELIT Ropar campus was visited by Sh Dinesh Kumar Chadha, Ropar MLA. Sh. Subhanshu Tiwari, ED, NIELIT apprised him about all the training activities and other projects being undertaken at Ropar campus.



Swachhata Action Plan

Taking the broom to sweep the streets, cleaning up the garbage, focussing on sanitation and maintaining a hygienic environment have become a practice after the launch of the Swachh Bharat Abhiyan. For the fulfillment of this motive, NIELIT Haridwar participated in Swachhata Abhiyan with full zeal at NIELIT Haridwar Campus on 14th October, 2022.



District Level Skill Mela

NIELIT Imphal participated in the "District Level Skill Mela " held on 22nd December, 2022 at Thoubal College, Manipur organised by District Skill Committee Thoubal.

NIELIT Imphal Organized Industry Meet

NIELIT IMPHAL organized a 1 Day INDUSTRY MEET on 23rd Nov 2022 at its conference Hall. The event was chaired by the Director, Dept of IT, Govt. of Manipur.

The objective of the event is to identify the area of training required for Graduate/Diploma holders (IT) in Manipur to get employment in the IT sector. A total of 18 Managing Directors/proprietors/representatives from different IT Industries/companies attended the meeting.



Some of the main points that were deliberated include the following.

1. Nomination of students (as per requirement) by the Industries of Manipur for training at NIELIT.
2. Industry oriented training/projects to be imparted during Final Year of the Courses (not after completion of the course).
3. Prospects of IT professionals in Manipur, need to organize Awareness cum Motivation activities.
4. Grant of stipend to students to meet the boarding/logging (if req.) by Govt of Manipur. Director (IT), Govt. of Manipur agreed to find out the possibility / initiate a proposal.

Manipur Technology Innovation Hub Roadshow

Awareness programme cum roadshow on "Innovative ideas and start up opportunities" at NIELIT Imphal in association with Manipur Technology Innovation Hub, Imphal commenced at NIELIT Imphal on 22nd November, 2022. The intent of the roadshow is to stimulate the students & faculties about



different start-up fundings followed by infrastructure & facilities available to build the idea to the next level.

PAPERS PUBLISHED

Utkarsha Pandit, Dr. Lakshman Korra, NIELIT Aurangabad published a paper titled "IoT Base Smart Car Parking" in Journal of Emerging Technology and Innovative Research (JETIR), ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor Volume 9 Issue 11th November, 2022.

TECH-वार्ता

Better Education Access for Visually Challenged People

Introduction

In a society where information is valued, it is everyone's right to create and use data. Therefore, it is vital to create a variety of tools that can quickly provide information to everybody. There are 12 million visually challenged people in India and almost 44 million visually impaired people worldwide. This group has a shockingly high rate of illiteracy, much of which is ascribed to the dearth of readily available reading material. Blind and visually disabled people use the Braille tactile writing method. Traditionally, it is written on embossed paper. They can use a Braille writer, such as a portable Braille note taker or a computer that prints with a Braille embosser, to write Braille or they can type it using the original slate and stylus.

- **International Braille standards:** Braille is a system of raised dots that blind, visually impaired, or deaf blind persons can read with their fingertips. Those who are not blind or visually challenged typically read Braille with their eyes, such as teachers, parents, and others. A language is not Braille.
- **Braille code:** Braille codes are created within the Braille cells, which are discrete spaces. As seen in the graphic below, a complete Braille cell is made up of six raised dots that are placed in two parallel vertical rows, each with three dots. The numerals one through six designate the dot placements. There are 64 different combinations using one or more of these six dots.

Objective

We chose this initiative to help the blind and visually impaired become more integrated into society by making

education more accessible to them. As engineering students, our goal was to develop a technical solution that could aid the blind. We must undoubtedly consider our genuine goals as well as the fundamental requirements that a blind person must meet in order to learn. Additionally, we had to consider what products were already on the market and whether we could replicate them more cheaply.

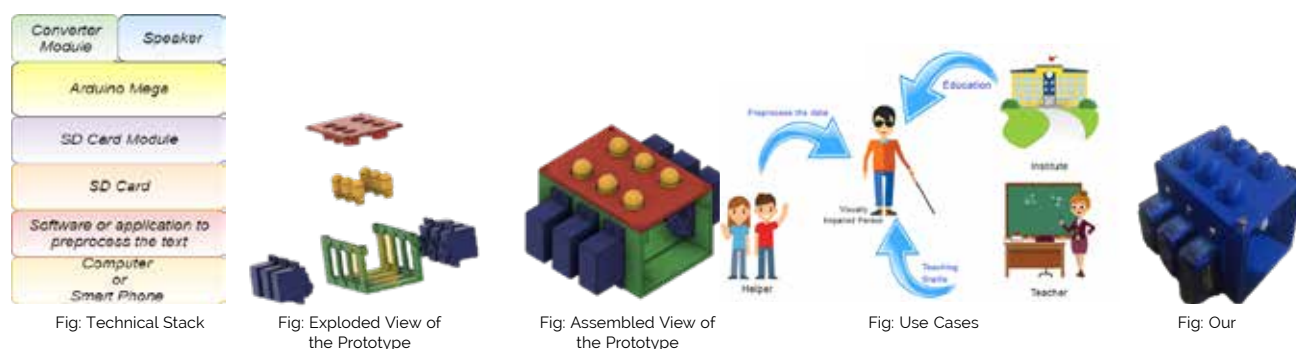
Technical Stack

This embedded system we have developed is capable of translating text into grade 1 as well as grade 2 Braille. We have developed a Windows Software and android app which converts plain text into grade 2 braille equivalent text. Furthermore, we are working on sending the data from PC or Smartphone to the device wirelessly. Then we take the converted text into SD card. The SD card is plugged into our embedded system and the system converts the text into braille and speech as audio output. The embedded system consists of, 1. Arduino Mega, 2. SD card Module, 3. Switching circuitry, 4. Solenoids, 5. Magnets, 6. Speaker, 7. LCD module(Optional), 8. Tactile switch, 9. I2c serial interface adapter module, 10. 24V SMPS. Solenoid, 11. Servo motor. Magnets and Switching circuitry or six Servo motors makes the Converter module. We have developed 2 types of modules. One uses solenoid and the other uses Servo motors.

Methodology

We have analyzed the braille codes, grade I as well as grade II. The basic requirement to convert the text into braille was 6 mechanical buttons for each letter. So we had started our experiment with the solenoids and the magnets. Components used in the device:1. Arduino UNO and MEGA2.N-MOSFET3.Fly back Diode4. SD card module5. Speaker6. Solenoids7. Magnets8.Servomotors9. 12V SMPS10. 3D printed Structures First of all, we started with the coding. We developed an algorithm for converting text into grade I braille. Further we developed a Windows application for pre-processing the text and make grade II equivalent braille. Then we moved on to the circuitry and the mechanism. We have designed two modules. This module used solenoid and magnets to create liner motion of the buttons. here's the 3D printed prototype we created.

Now for the sake of experimentation we also used servo motor in the second prototype for the same model. In the second prototype we have used 6 SG90 micro servo motors. All the motors are controlled by the Arduino MEGA. Now the common part of both the prototype was a talk back functionality. The module gives an audio output through speaker for each character. Which can also be used as input into the Bone conduction headphones for any deaf person.



Prototype

1. There should be a person(helper) who will preprocess the text and save it in a SD card using PC or Smart Phone. The preprocessing is only required if the visually impaired person prefers Grade 2 Braille. No preprocessing is required for the Grade 1 Braille.
2. Once the preprocessing is done, he need to plug the SD card into the device and turn it on.
3. Then the Visually impaired person will be able to read as well as hear the text.
4. We have designed this device in such a way so that, it can also be used in the schools or any other institutions for teaching and learning Grade 1 Braille. So a Braille teacher can also take advantage out of it.

Conclusion

We have chosen the project to make the education accessible for the visually impaired people and make them less left out of the society. We have created an embedded system that can convert text into grade 1 and grade 2 Braille. We created software for Windows and an app for Android that turns ordinary text into grade 2 Braille comparable text. Additionally, we frequently use wireless transmission to transfer data from a laptop or smartphone to a device. The transformed text is then placed into an SD card. Our embedded system reads the SD card and translates the text to Braille and speech for audio output

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