National Institute of Electronics and Information Technology, Chandigarh

Ministry of Electronics and IT (MeitY), Govt. of India
Permanent Campus: Birla Farms, Bada Phull, Ropar-140001
Extension Centre: IETE Building, Sector 30B, Chandigarh
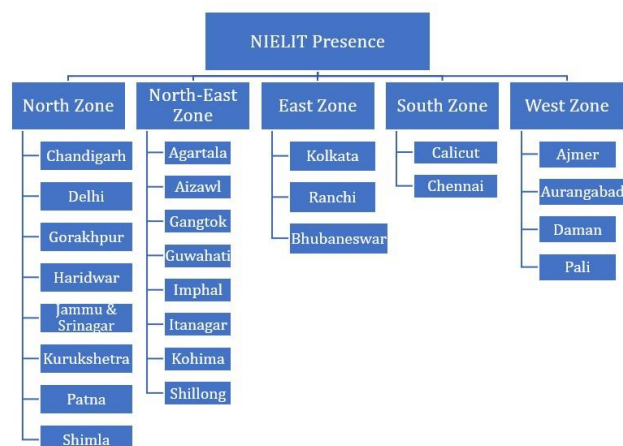
About NIELIT

National Institute of Electronics and Information Technology (NIELIT), erstwhile DOEACC Society, is a skill development and capacity building arm of Ministry of Electronics & Information Technology (MeitY), Government of India. NIELIT offers courses in IECT in the Formal (university affiliated courses) as well as the Non-Formal Sectors of Education. NIELIT is playing a key role in Digital India, Make in India and Skill India initiatives undertaken by Government of India. At present, NIELIT has forty seven centres pan India with its Headquarters at New Delhi. About 8500+ Facilitation centres are actively engaged in conducting Digital Literacy Programmes. NIELIT is also National Examination body with vast experience in conducting online examinations and third party assessments.

About NIELIT Chandigarh

NIELIT Chandigarh was established in the year 1978 as Regional Computer Centre (RCC). The permanent campus of NIELIT Chandigarh is built at Ropar in Punjab. The campus is built in 12 Acres of land allotted by the Govt. of Punjab at Bada Phull, Ropar. The centre is operational since October, 2017 with following objectives: -

➤ To encourage and promote development and progress of Electronic and Information Technology

➤ To advance interdisciplinary co-operation amongst scientists, technologists, engineers, administrators and commercial entrepreneurs for the growth of teaching research and practices

➤ To provide support for software development and consultancy

➤ To disseminate knowledge on all the aspects of Electronic and IT systems and allied subjects to foster the development of this specialized branch of technology.

NIELIT Presence

North Zone	North-East Zone	East Zone	South Zone	West Zone
Chandigarh	Agartala	Kolkata	Calicut	Ajmer
Delhi	Aizawl	Ranchi	Chennai	Aurangabad
Gorakhpur	Gangtok	Bhubaneswar		Daman
Haridwar	Guwahati			Pali
Jammu & Srinagar	Imphal			
Kurukshetra	Itanagar			
Patna	Kohima			
Shimla	Shillong			

List of Main NIELIT Centres

NIELIT received Letter of Intent (LoI) from UGC to get status of Deemed to be University under de-novo category. The undergraduate, postgraduate, Diploma and Ph.D. courses are likely to start soon.

Services Offered

- IT Education and Training
- Large Volume Digitization Projects
- Software Development
- Energy / Water Accounting
- Turn Key Projects & Consultancy
- Examination & Recruitment
- Facility Management

Salient Features

➤ Modular and flexible training Programmes
➤ Industry oriented and practical based courses.
➤ Experienced and well qualified faculty.
➤ Expert lectures for students on emerging technologies
➤ Latest teaching aids and methodologies.
➤ Well-equipped labs
➤ Interactive learning
➤ Separate Boys and Girls Hostels
➤ Faculty Guest House

Azadi Ka Amrit Mahotsav

Information Technology Education and Training

NIELIT is engaged in skill development and development of human resources in the areas of IT, Electronics, Communications Technologies, Hardware, Cyber Law, Cyber Security, IPR, GIS, Cloud Computing, e-Govemance and related verticals. NIELIT is also the preferred agency for many State Governments for rolling out IT Literacy programmes for its employees and the masses. The following courses are offered by NIELIT Chandigarh.

Formal courses

- ➢ **B.Sc. (Honors in Computer Science)**
- ➢ **B.C.A.**
- ➢ **P.G.D.C.A**
- ➢ **M.Sc. in Computer Science with Specialization in Data Science**

Currently in affiliation with Punjabi University, Patiala

Non-formal Courses

Long Term Courses	Faculty Development Programmes
➢ **NIELIT 'O' Level (IT)** ➢ **NIELIT CHMT 'O' Level (Hardware)** ➢ **NIELIT 'A' Level (IT)**	NIELIT regularly conducts Faculty Development Programs, Orientation Programs, Crash training on Emerging Technologies for the Associate/Assistant Professors, Research Scholars of Universities/Colleges, NIELIT Technical Staff in residential mode as well as in Blended mode. A Series of FDP's for teachers of Govt. schools of Chandigarh are also being conducted.

Summer (6-8 weeks) / Industrial Training Programmes (6 months)

Advanced Technologies	Web Development	Electronics
• Artificial Intelligence and Machine Learning • Big Data Analytics using Hadoop • Robotic Process Automation using UiPath and Automation Anywhere • Augmented and Virtual Reality • Machine Learning and Deep Learning • Python with Data Science and Machine Learning • Blockchain Developer	• PHP with MYSQL • Web Designing & Publishing • Mobile Application Development using Android • ASP.NET with SQL Server • Web Development using Java Framework • AngularJS with MongoDB	• Internet of Things using Arduino • IoT using Augmented Reality • Raspberry Pi with Python • Programming with Arduino • Embedded System Design • Mobile Handset Design and Maintenance • PCB Design

Basic Courses	Courses with Tally Academy	Information Security
• Core Java • Advance Java • Certificate Course in Python • C/C++ • IT Tools & Network Basis • Certificate course in Multimedia • Advance Data Structure through C Language	• Accounting Executive Certificate Program • Fundamental Certificate Program. • Taxation Master Certificate Program • Tally ERP Fundamental & Payroll Management Certificate Program	• Cyber Security and Ethical Hacking **Digital Literacy Programmes** • ACC (20 hours duration) • BCC (36 hours duration) • CCC (80 hours duration) • CCC+ (136 hours duration) • ECC (200 hours duration)

Workshops on latest technologies such as Chat-GPT, 5G, DALL-E2, AI-Machine Learning, Deep Learning, Blockchain, AVR, Big Data Analytics, Internet of Things, Tableau, Cyber Security are regularly conducted.

Joint Certification with IIT Ropar

NIELIT entered into an MoU with IIT Ropar in 2017 to foster collaboration, provide opportunity for global experience and to facilitate the advancement of knowledge on the basis of reciprocity, best effort, mutual benefit and frequent interactions. Following courses are offered under joint certification programmes with IIT Ropar.

Joint Certification Courses

- Summer Training (6-8 Weeks)
- Industrial Training (6 Months)
- Finishing School Programme (5 Months)

Highlights
- Joint assessment & certification
- Lectures by both NIELIT and IIT faculty
- Major thrust on Hands-on Training

Major Technologies
- Artificial Intelligence / Machine Learning
- Big Data Analytics
- Internet of Things
- Cyber Security

Academic / Industry Partners

1. **Collaborations with Academic Institutions**
   a. IIT Ropar
   b. PEC, Chandigarh
   c. IKG-PTU, Kapurthala
   d. IET Bhaddal, Ropar
   e. MIMIT Malout
   f. Govt College Ropar
   g. CGC Landran

2. **MoU with Industries** for Startup support and Mentoring, workshops, placements and trainings to be done jointly and collaboratively.

3. **MoU for Services** to various departments like UT Police, UT Education, Punjab State Power Corporation Ltd (PSPCL), Educational Projects like NCPUL, Facility management for Departments of Punjab are undertaken and successfully executed

IT Educational and Corporate Projects

NCPUL	UT School Project
NIELIT Chandigarh in providing Training and Facility to 400 National Council for Promotion of Urdu Language (NCPUL), an Autonomous body under the Ministry of Human Resource Development, Government of India, centres PAN India	The centre conducts on-line Counseling for admission to class XI in around 42 Government Schools of Chandigarh Administration. More than 19000 admission forms are processed yearly.

NIELIT NSQF Courses

NSQF is a nationally integrated education and competency-based skill and quality assurance framework that will provide for multiple pathways, horizontal as well as vertical, including vocational education, vocational training, general education and technical education, thus linking one level of learning to another higher level. This will enable a person to acquire desired competency levels, transit to the job market and at an opportune time, return for acquiring additional skills to further upgrade their competencies. As of now, 68 Courses of NIELIT, in the field of IT and Electronics, have been NSQF aligned. NIELIT grants accreditation for running NSQF Aligned Courses of NIELIT and have approximately 700+ Accreditation centres and 8800+Facilitation centres.

Sponsored Schemes

DGE

NIELIT is imparting training to candidates sponsored by Directorate General of Employment in NIELIT 'O' Level and CHMT 'O' level. The candidates are trained through Training Partners at Jalandhar.

Director General Resettlement

NIELIT Chandigarh is imparting training to candidates sponsored by Director General Resettlement in NIELIT 'O' level, CHMT 'O' Level and Multimedia courses.

FutureSkills PRIME

FutureSkills PRIME is an innovative and evolutionary scheme of Ministry of Electronics and Information Technology (MeitY), Government of India to equip learners with cutting-edge skills. NIELIT is upskilling manpower in technologies like Big Data Analytics and Augmented and Virtual Reality as a Co-Lead Resource Centre.

Work Based Learning (WBL)

It is a six months' internship for Women, EWS and SC/ST candidates to make them learn organization skills and upskill in emerging technologies like AI, ML, Blockchain, Security and Data Science.

ESDM

NIELIT Chandigarh is implementing Skill Development Scheme in Electronics System Design and Manufacturing (ESDM) sector through Training partners in the state of Punjab

Aspirational District

NIELIT Chandigarh is implementing this scheme for Skill Development of Youths in Aspirational Districts in Area of IECT Leading to enhancement in employability. It is implemented in two districts of Punjab, Ferozepur and Moga.

Major Corporate Training

- Department of Information Technology, Haryana
- Rail Coach Factory (RCF), Kapurthala
- Software Technology Park of India (STPI)
- IIT Ropar
- Zila Welfare Office, Chandigarh Administration
- Directorate General of Resettlement (DGR)
- Defense Research and Development Organization (DRDO)
- Punjab Irrigation Department
- State AIDS Control Society, Chandigarh
- Directorate General of Employment
- Bhakra Beas Management Board
- Employees of Chandigarh Administration
- State Bank of India
- Economic and Statistical Organization, Haryana

Projects Developed by Students

- Chatbots using Natural Language Processing(NLP)
- Sentiment Analysis
- Face Detection and recognition using Computer Vision
- Data Analysis using BigData in Hadoop
- Predictive Analysis apps
- Smart Extension Board
- IoT-enabled weather station
- Ethical Hacking tools for security applications
- Web Application Development using Full Stack
- Decentralized application based on Blockchain Technology
- Sensor Based Artificial Intelligence of Things (AIoT) applications
- App Development in Android and other mobile OS
- Movie recommendation system
- Voice detection using Deep Learning
- Text to image generator

Life in Campus

Students working in Lab

Multipurpose Hall

Badminton court

Corporate Room

Diwali Celebrations

Sports Day Celebration

Tech Masti

Yoga Day

Training Calendar-2024
(Day of the Month)

S.No.	Course	Jan	Feb	Mar	April	May	Jun	July	Aug	Sep	Oct	Nov	Dec
1	**Formal**												
	B.Sc.(Hons.in CS)							15					
	BCA							15					
	PGDCA							15					
	M.Sc. in CS (specialization in DS)							15					
2	**Non-formal**												
	O-Level	15						15					
	CHMT O-Level	15						15					
3	**NSQF**												
	CCC	1	5	4	1	6	3	3	5	2	7	4	2
	Certified Artificial Intelligence (AI) Associate "Upskilling"	15						15					
	Certified Data Analyst	15						15					
	CMD (Certified Multimedia Developer)			4		6			5		7		
	Data Analysis Assistant			4		6			5		7		
	Cyber Security Assistant			4		6			5		7		
	Artificial Intelligence Assistant			4		6			5		7		
	Internet of Things (IoT) Assistant			4		6			5		7		
	Certified Web Developer			4		6			5		7		
	Foundation course in Block chain Development			4		6			5		7		
	Certified Computer Application Accounting and Publishing Assistant			4		6			5		7		
4	**Short Term(6-8 weeks)/Industrial Training (6 months)**												
	Python with Data Science(4 weeks)	8		11		13		8			7		2
	Python with DS and ML (6 weeks)	8		11		13		8			7		2
	AI and ML (4 weeks)	8		11		13		8			7		2
	Internet of Things (6 weeks)	8		11		13		8			7		2
	Big Data Analytics (6 weeks)	8		11		13		8			7		2
	Blockchain Developer (6 weeks)	8		11		13		8			7		2
	Web Designing (6 weeks)	8		11		13		8			7		2
	Ethical Hacking (6 weeks)	8		11		13		8			7		2
	AI and ML (6 months)	8						8					
	Internet of Things (6 months)	8						8					
	Certified Blockchain Developer (6 months)	8						8					
	Big Data Analytics (6 months)	8						8					
	CCNA (6 months)	8						8					
5	**Join Certification with IIT Ropar**												
	Summer Training						10						
	Industrial Training	8						8					

- The courses can be customized depending upon specific needs.

Large Volume Digitization Projects

Demographic Data Digitization
(National Population Register)

Family Living Survey Project

Scanning and Digitization
of Death and Birth Registers in Punjab
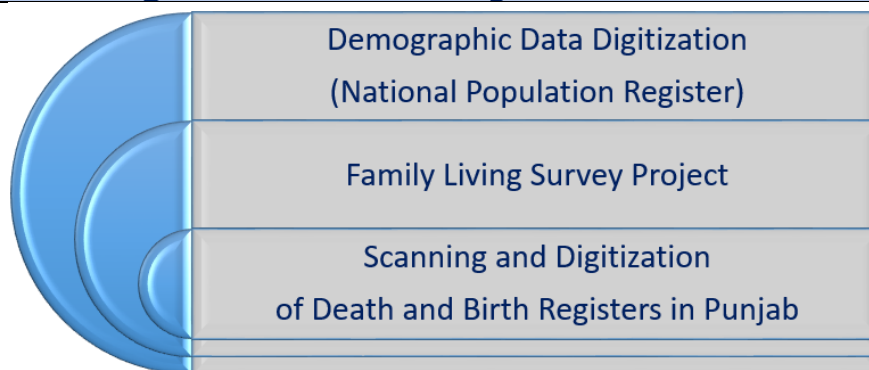
Software Development

NIELIT Chandigarh developed and implemented software successfully in following areas.

- Medical sector
- Electricity and Water Billing
- Online Payment System
- Complaint Redressal and Services
- Data Digitization
- Consumer Price Index

Software Development Categories

- Web Development
- IVRS Based
- Client-Server Based

Energy/Water Accounting

NIELIT Chandigarh provides services to electricity boards/corporations of Punjab, Haryana and Chandigarh (UT). Energy bills for over 5.5 million consumers of the states of Punjab, Haryana and Chandigarh UT are processed and printed per cycle.

Turnkey Projects and Consultancy

NIELIT Chandigarh provides consultancy and executes turnkey project in the area of Information technology.

Examination and Recruitment

NIELIT has endeavored to establish standards to be the country's premier institution for Examination and Certification in the field of IECT. It is also one of the National Examination Body, which accredits institutes/organizations for conducting courses in IT in the non-formal sector. NIELIT Conducts CCC and other NSQF courses examination in online mode. The examinations are also conducted in conventional mode.

NIELIT Chandigarh provides complete end-to-end OMR based computerized solutions for admission/ recruitment related examinations activities for various Boards/Universities and other Govt. Departments. The activities include acceptance of online application forms, scrutiny, examination conduction, evaluation and merit preparation. These activities are divided into three parts, Pre-examination, Conduct of Examination and Post-examination. This Centre has conducted recruitment examination for various posts for Punjab Police, Subordinate Service Selection Board, Punjab, Citizen Resource Information Department Haryana and State Council of Education Research Chandigarh

Facility Management

NIELIT provides technical manpower to various Government Departments/ Corporations.

#Proudmember NIELIT Chandigarh

I get exposure to upgrade the existing systems by integrating in them. While training, not only I learn about coding but also got to understand the work ethics from the faculty which is very advantageous for me in my job right now. The faculty at NIELIT Chandigarh was tremendous in preparing us technologically to uplift our morale to achieve success in a short duration.

JOBANPREET SINGH   DATA ANALYST

धन्यवाद NIELIT चंडीगढ़

The lectures delivered by professors of IIT Ropar was extremely beneficial, conceptually sound and made us aware about current trends in the areas of machine learning and Deep learning I worked on AI and ML live projects; which led to conceptualize a good project on "ATTENDANCE MANAGEMENT SYSTEM USING FACE RECOGNITION" which was successfully executed and it helped to clear an interview at various companies.

SHUBHADEEP   INFOSYS

I, Ansh Seth have successfully completed NIELIT Certified Blockcain Professional a 6 months online course being successful conducted by NIELIT Chandigarh and NIELIT Lucknow. The Course material provided was excellent, the mentoring approach was also very good and interacting with my colleagues via the Internet also proved to be fruitful. The faculty also did a great job of communicating and provided their valuable suggestions in accomplishing my industrial training project.Also,the course helped me to prepare for various company interviews.It was a great learning experience.
Thank You very much.   8:06 pm

I, have successfully completed Six Months Professional Industrial Training Course on "**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**" certified from NIELIT Chandigarh in collaboration with IIT Ropar . The mentoring approach was excellent and it was very interactive . The lectures delivered by professors of IIT Ropar was extremely beneficial, conceptually sound and made us aware about current trends in the areas of machine learning and Deep learning. I worked on AI and ML live projects; which led to conceptualize a good project on "**ATTENDANCE MANAGEMENT SYSTEM USING FACE RECOGNITION**". Moreover: The project was successfully executed and it helped to clear an interview at various companies.
While training. not only I learn about coding . I also got to know and understand the work ethics from the faculty which is very beneficial for me in my job right now. The faculty at NIELIT Chandigarh was fantastic in preparing us technically, boosting our morale to achieve success in a short duration.

Contact Details

Executive Director's Office

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