

MeitY Govt. of India



National Institute of Electronics Information Technology, Chandigarh

Information

Brochure

2022-23

and

Ministry of Electronics and Information Technology, Govt. of India

Permanent Campus: Birla Farms, Bada Phull, Rupnagar (Ropar)-140001, Punjab

Admission open



B.Sc.(Hons. in CS), BCA and PGDCA courses Affiliated to Punjabi University Patiala

Contents

 Director General's Message 	2
 Executive Director's Message 	3
About NIELIT	4
 Administration Structure 	5
 Faculty Details 	6
 Infrastructure Details 	7-9
 Courses Offered 	10-12
 Outline of University Affiliated courses 	13-16
 Guidelines for registration and Admission procedure 	17
procedureFee Structure	18
 Hostel Charges 	19
 Refund of Fee 	20
 General rules and regulations 	22
 Contact persons for admission enquiry 	23
 Events at NIELIT Chandigarh, Ropar Campus 	24-25

From the Desk of Director General



The National Institute of Electronics and Information Technology (NIELIT), a body under the administrative control of the Ministry of Electronics and Information Technology (MeitY), Government of India, is today uniquely positioned in terms of its outreach to all corners of the country and all segments of the society. NIELIT is a professional examination body in India, which also accredits training programs in IT and Electronics, specializing in the non-formal sector of education and training. It is actively engaged in the development of qualified human resources in the areas of IT, electronics, communication technologies, hardware, cyber law, cyber security, IPR, GIS, cloud computing, ESDM, e-Governance and related verticals. This gives the Institute a distinct identity and character in the panorama of Skill Development and Capacity Building in India.

NIELIT has made efforts to establish standards in the areas of IECT and has developed market oriented courses in the emerging areas as per needs of the IT and the electronic industry. Besides, NIELIT is also a preferred agency for rolling out capacity building initiatives of State Governments and Central Ministries.

With emphasis on a strong Online presence, NIELIT in the recent times has embraced technology to facilitate stakeholders, particularly students, through portals that provide end-to-end solutions, including Registration to Courses – e-Learning – Online Examinations – Digital Certificates, supported by automatic SMS, e-Mail and Aadhaar enabled Direct Benefit Transfer (DBT) scheme.

I congratulate NIELT Chandigarh for starting Degree and Diploma courses affiliated to Punjabi University, Patiala from academic session 2022-23 from its Campus at Ropar and wish a success in time to come.

Further I congratulate students for selecting NIELIT Chandigarh for acquiring Degree and post graduate Diploma and wish all of you the best learning in Campus.

Dr. Madan Mohan Tripathi Director Greneral, NIELIT



From the Desk of Executive Director

NIELIT Chandigarh (erstwhile RCC), a premier institute of the region, was established in 1978 to provide professional services in the areas of Electronics and Information, Technology. The permanent campus of NIELIT Chandigarh is spread in approximately 12 acres land at Bada Phull, Birla Farms Ropar. This Centre has been working as a leader in the development of industry based Skill manpower in latest and emerging technologies. This Centre focuses on providing affordable education & training, promoting the culture of use of technology and providing a complete customized IT solution & products to our clients and students. This Centre is working in line with 'Digital India', 'Skill India', 'Assemble in India', 'Atmanirbhar Bharat Abhiyaan' and 'FutureSkill' programmes of Govt. of India started towards the welfare of entire humanity.

The Centre offers services categorized into three groups.

- Training and IT Educational Projects
- IT Services
- IT Projects

I fee proud to announce first batches of BCA, B.Sc.(Hons. in Computer Science) and PGDCA courses affiliated to Punjabi University, Patiala. The students will enjoy academic and industry based learning from our highly qualified & experienced faculty. The availability of state-of-the-art infrastructure will definitely give exposure to students in IT.

We welcome suggestions that may help us to improve our service quality and we ensure to work with a missionary zeal and dedication to spread computer culture and always has been a front runner in fulfilling its commitment to the nation.

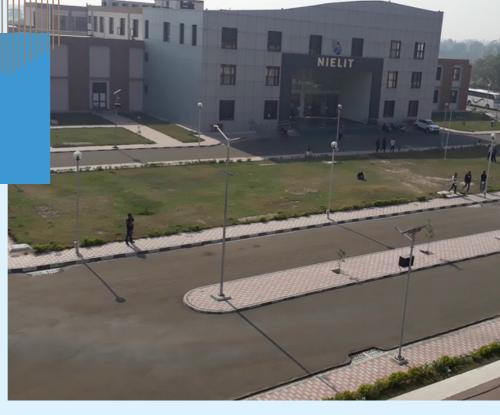
I wish all the students a very useful learning at the centre.

Subhanshu Tiwari Executive Director

3

About NIELIT

NIELIT, Chandigarh was established in 1978 to professional provide services in the areas of Information, Electronics & Communication Technology (IECT).



It has been a constant endeavour of this Centre to develop excellence in various area of Information, Electronics & Communication Technology (IECT). The centre is ISO 9001-2008 certified. It is an IT and Electronics Organisation with clear cut strategies and its various operations are aimed at giving its customers a total package of IT Solutions and products.

The Centre ensure cost effective, time to market solutions through a highly skilled work force driven by strong design principles, highest levels of qualities and ethical business practices and constantly strive to delight our customers through excellence in Service Delivery.

The Centre aims to disseminate knowledge on all aspects of Information, Electronics & Communication Technology (IECT) to the utmost user satisfaction and has built up a formidable track record for the same. This Centre provides specialized services to different segments of clients based on requirements assessed from time to time

allhin

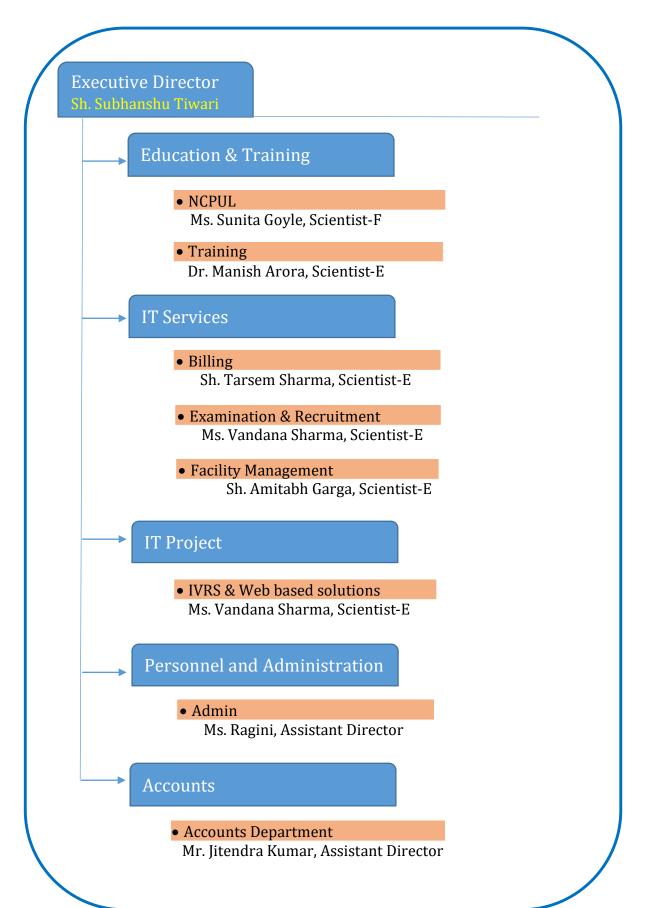
Our Strength

- Capacity Building in IECT
- Computer Education in Schools
- Corporate Training
- Turn key Projects in the field of IT
- Consultancy in selection of Hardware Key Projects in the field of IT and Software
- Large capturing scale data & processing

4

- Software development
- Feasibility and System Studies

Administration Structure



~

Faculty Details

S.No.	Name	Designation	Designation
1.	Dr. Manish Arora	Scientist-E	PhD(COM.SC & APPL.)
2.	Ms. Anita Budhiraja	Scientist-D	P.G.D.C.A, B LEVEL , C LEVEL
3.	Ms. Meenu Mohindra	Scientist-D	M.SC.(COMP.)
4.	Ms. Meenu Dhir	Scientist-D	B.E.(COMP)
5.	Sh. Amit Jain	Scientist-D	M.TECH (IT)
6.	Dr. Sunita Chib	Joint Director	PhD(Computer Science & Applications)
7.	Sh. Sachin Chandla	Scientist-D	B.TECH (IT)
8.	Dr. Sarwan Singh	Principal Technical Officer	PhD(Computer Science)
9.	Sh. Rakesh Bharti	Principal Technical Officer	P.G.D.C.A, M.C.A.
10.	Sh. Jasbir Singh	Principal Technical Officer	P.G.D.C.A , M.SC (IT)
11.	Ms. Jyoti Sharma	Principal Technical Officer	P.G.D.C.A, M.C.A.
12.	Sh. Akash Sharan	Scientist-B	B.TECH (IT)
13.	Ms. Suman	Technical Officer	B.TECH (CSE)
14.	Sh. Akhil Arora	Technical Officer	B.E (ECE)
15.	Sh. Jaspreet Singh	Sr. Technical Assistant	B.TECH (ELECT.& COMM.ENGG.)
16.	Sh. Prakash Pratik	Sr. Technical Assistant	M.Tech



Infrastructure Details

NIELIT Chandigarh, permanent campus, Ropar has state-of-the-art infrastructure, wellequipped and air conditioned labs & classrooms. The institute ensures a dynamic learning environment for students. Exclusive labs have been provided for learning skills on latest technologies such Augmented and Virtual Reality, Artificial Intelligence, Internet of Things, Blockchain, Blockchain etc.



7

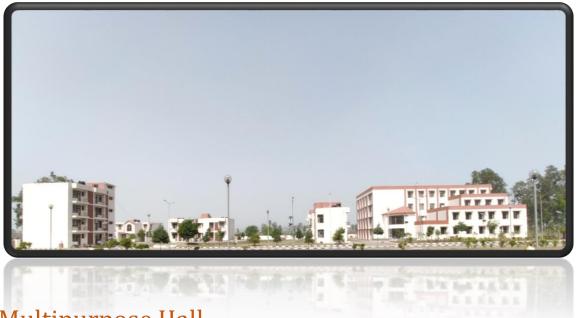
Web Development Lab



Infrastructure Details

Girls and Boys Hostel

NIELIT Chandigarh provides in-campus hostel accommodation with modern amenities. The hostels are secured by round-the-clock security guards at the entry gates. The students are encouraged to ride bicycles, play badminton and other games during their leisure time.



Multipurpose Hall

The institute has a spacious multipurpose hall with a seating capacity for more than 100 persons. Celebration of important days are hosted in the hall. The hall also serves as an open area where students can play badminton during their free time.







Infrastructure Details

Conference Room and Corporate Room

The institute has spacious and fully air-conditioned Conference Room and Corporate room, with state-of-the-art infrastructure which provides facilities for work meetings, workshops, seminars, guest lectures and faculty development programs.





Courses Offered

NIEIT Chandigarh offers courses in the area of Information, Electronics & Communications Technology (IECT) in the Formal (University affiliated) as well as the Non-Formal Sectors of Education. Courses offered are distinctive for their unique characteristics of being Industry Oriented and practice base.

Degree / Diploma Courses (University Affiliated)

Course	Duration	Eligibility	Total Seats
B.Sc. (Hons. in Computer Science)	3 Years	10+2	50
BCA	3 Years	10+2	50
PGDCA	1 Year	Graduation	40

Non-Formal Courses (NIELIT Skill Oriented)

NSQF Aligned Training Programmes				
Course	Duration	Eligibility		
NIELIT 'O' Level (IT)*	1 Year	10+2/ ITI / Diploma or above		
NIELIT CHM 'O' Level (Hardware)*	1 Year	10+2/ ITI / Diploma or above		
NIELIT 'A' Level (IT)*	1.5 Years	Graduation		
NIELIT 'A' Level (IT)*	1 Year	NIELIT 'O' Level		
Certification Course in Data Entry and Office Automation*	135 Hours	10+2/ ITI		
Advance Diploma in Computer Application Accounting & Publishing*	200 Hours	10+2		
Solar-LED Lighting Product (Design and Manufacturing)*	350 Hours	10th/ ITI / 12 th		
PG Diploma in Data Science & Analytics*	840 hours	ME/MTech/BE/BTech/ MCA/MSc/B Level		

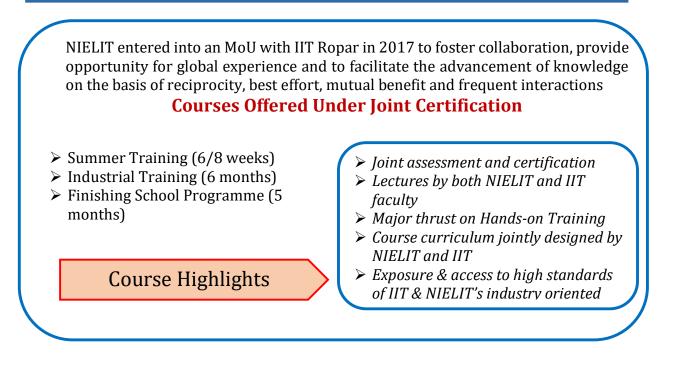




Digital Literacy Programmes				
Duration	Eligibility			
20 Hours	-			
36 Hours	-			
80 Hours	-			
126 Hours	10 th pass			
200 Hours	12 th pass			
	Duration20 Hours36 Hours80 Hours126 Hours			

* No Fee for SC/ST Candidates

Joint certification Training Programmes with IIT Ropar





NIELIT Short Term Courses in IT and Electronics (6-8 weeks)				
Advanced Technologies	Web Development	Basic Courses		
 Robotic Process Automation using UiPath and Automation Anywhere BigData Analytics 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 	 Core Java Advance Java C/C++ IT Tools & Network Basis Certificate course in Multimedia Advance Data Structure through C Language Certificate Course in Python 		
Information Security	Electronics	Courses with Tally Academy		
Cyber SecurityEthical Hacking	 Internet of Things IoT using Augmented Reality Raspberry Pi with Python Programming with Arduino Embedded System Design Mobile Handset Design and Maintenance PCB Design 	 Accounting Executive Certificate Program Fundamental Certificate Prog. Taxation Master Certificate Program Tally ERP Fundamental & Payroll Management Certificate Program 		
NIELIT Indu	ustrial Training Course	s (6 Months)		
 Artificial Intelligence & Machine Learning BigData Analytics using Hadoop Blockchain Certified Professional 	 Web Application Development using PHP & MySQL Mobile Application Development using Android Cyber Security 	 Cloud Computing and Virtualization Internet of Things (IoT) Electronic Product Design Augmented and Virtual Reality 		





Outline of University Affiliated Courses

B.Sc. (Honours in Computer Science)

Eligibility: 10+2 Seats:50

Semester-I			
BCSH1101T	Punjabi Compulsory – I	BCSH1105T	Programming Solving with C
BCSH1102T	General English – I	BCSH1106L	Programming Lab – I: Windows
			and Office Automation
BCSH1103T	Mathematical Foundation of	BCSH1107L	Programming Lab – II : Problem
	Computer Science		Solving with C
BCSH1104T	Fundamentals of Information		
	Technology		

Semester-II			
BCSH1201T	Punjabi Compulsory –	BCSH1205L	Programming Lab – III: Data
	II		Structures using C
BCSH1202T	General English – II	BCSH1206L	Programming Lab – IV: Object
			Oriented Programming with C++
BCSH1203T	Data Structures	BCSH1207T	Environment and road safety
			awareness
BCSH1204T	Object Oriented		
	Programming with C++		

Semester-III	Semester-III					
BCSH2101T	General English – III	BCSH2105T	Web Technologies			
BCSH2102T	Discrete Mathematics	BCSH2106L	Programming Lab – V: Web			
			Technologies			
BCSH2103T	Computer Organization	BCSH2107L	Programming Lab – VI: Database			
	and Architecture		Management Systems			
BCSH2104T	Database Management					
	Systems					

Semester-IV					
BCSH2201T	General English – IV	BCSH2205L	Programming Lab – VII:		
			Programming with Python		
BCSH2202T	Programming with Python	BCSH2206L	Programming Lab – VIII:		
			NoSQL Databases		
BCSH2203T	NoSQL Databases	BCSH2207T	Drug Abuse: Problem,		
			Management and Prevention		
BCSH2204T	Operating Systems				





Semester-V			
BCSH3101T	General English – V	BCSH3105T	Information Security
BCSH3102T	Computer Oriented	BCSH3106L	Programming Lab – IX:
	Statistical Methods		Programming with Java
BCSH3103T	Programming with Java	BCSH3107L	Programming Lab – X:
			Computer Oriented Statistical
			Methods with Python
BCSH3104T	Software Engineering		

Semester-VI					
BCSH3201T	English – Communication Skills and Report Writing	BCSH3205E	Elective – I		
BCSH3202T	Computer Network	BCSH3206L	Soft Skills		
BCSH3203T	Software Testing	BCSH3207L	Major Project		
BCSH3204T	Big Data Analytics				

B.C.A. (Bachelor of Computer Applications)

Eligibility: 10+2 Seats:50

Semester-I			
BCA-111	General English – I	BCA-114	Programming Fundamentals using C
BCA-112	Punjabi (Compulsory) or Punjabi Compulsory (Mudla Gyan)	BCA-115	Software Lab –I (Windows and Office Automation)
BCA-113	Fundamentals of Information Technology	BCA-116	Software Lab – II (Based on paper BCA-114: Programming Fundamentals using C)

	Semester-II		
BCA-121	General English – II	BCA-124	Data Structures
BCA-122	Punjabi (Compulsory) or Punjabi Compulsory (Mudla Gyan)	BCA-125	Basic Mathematics
BCA-123	Digital Electronics	BCA-126	Software Lab – III (based on BCA124: Data Structures)



~



Semester	Semester-III		
BCA-211	English Communication Skills-I	BCA-215	Fundamentals of Database Management System
BCA-212	Discrete Mathematics	BCA-216	Software Lab – IV (Object Oriented Programming using C++ Lab)
BCA-213	Computer System Organization and Architecture	BCA-217	Software Lab – V (DBMS using MS Access Lab)
BCA-214	Object Oriented Programming using C++	BCA-218	Environmental and Road Safety Awareness (Qualifying Exam)

Semester-IV			
BCA-221	English Communication Skills-II	BCA-225	Relational Database
			Management Systems with Oracle
BCA-222	Computer Networks	BCA-226	Software Lab – VI (Computer Oriented Numerical and Statistical Methods Lab)
BCA-223	Management Information Systems	BCA-227	Software Lab – VII (Oracle Lab)
BCA-224	Computer Oriented Numerical and Statistical Methods		

Semester	Semester-V		
BCA-311	English Literary Skills-I	BCA-315	Web Designing using HTML and DHTML
BCA-312	System Analysis and Design	BCA-316	Software Lab – IX (based on paper BCA-314: Java Programming)
BCA-313	System Software	BCA-317	Software Lab – X (based on paper BCA-315: Web Designing using HTML and DHTML)
BCA-314	Java Programming	BCA-318	Punjabi (Compulsory) or Punjabi Compulsory (Mudla Gyan)

Semester-VI			
BCA-321	English Literary Skills-II	BCA-325	Web Designing using ASP.Net
BCA-322	E-Commerce	BCA-326	Software Lab – XI (More on Java
			based on BCA-314: Java
			Programming)
BCA-323	Operating Systems	BCA-327	Software Lab – XII (based on BCA-
			325: Web Designing using ASP.Net)
BCA-324	Software Engineering	BCA-328	Punjabi (Compulsory) or Punjabi
			Compulsory (Mudla Gyan)





Eligibility: Graduation Seats:40

PGDCA

Semester-I			
PGDCA-101	Fundamental of	PGDCA-104	Computer Organization and
	Information technology		Architecture
PGDCA-102	Operating Systems	PGDCA-105	Software Lab – I Office
			Automation and Productivity
			Tools
PGDCA-103	Programming	PGDCA-106	Software Lab – II
	Fundamentals through C		Programming Fundamentals
	language		through "C" Language

	Semester-II		
PGDCA-201	Data Structures	PGDCA-204	Fundamentals of Computer Networks, Internet and
			Scripting Languages
PGDCA-202	Object Oriented	PGDCA-205	Software Lab – III Data
	Programming with C++		Strucutres and Programming with C++
PGDCA-203	Database Management System with MS ACCESS	PGDCA-206	Software Lab – IV MS ACCESS and Scripting Languages





Guidelines for Registration and Admission Procedure

- 1. The candidate should go through the prospectus carefully available online.
- 2. Fill in the online application form, available at *https://www.nielit.gov.in/chandigarh/content/formal-courses.* Refer to *Instructions.pdf* for help in filling up form.
- 3. Forms without the photograph and required documents will not be considered valid.
- 4. If a candidate wishes to appear for more than one courses, he/she will have to apply separately.
- 5. The registration fee for applying for courses is Rs 250/- (non-refundable).
- 6. The filled form will be open for editing till last date. The last date will be as per University Calendar 2022-23.
- 7. The submitted online forms will be scrutinized and the merit list will be displayed on web site. Visit web site of NIELIT Chandigarh for regular updates on dates (Dates will be as per university calendar 2022).
- 8. The candidates, on merit list, will be called for document verification. Once documents are verified, the course fee will be submitted online.
- 9. Admission to all the courses shall be made on the basis of merit of qualifying exam. In case of two or more candidates obtaining equal marks in qualifying exam, merit of those candidates shall be determined by age i.e. Candidates older in age would be preferred or as per University rules.
- 10. The admission of the student to any course will be cancelled if the documents submitted at the time of admission are found to be false or fake. Also, a disciplinary action can be initiated against the student.
- 11. The admission to any course shall be provisional subject to verification of documents at any stage as per requirement of University.
- 12. The students are supposed to visit institute's website regularly for any updates.
- 13. Admission will be provisional subject to verification of documents and other criteria fulfillment of Terms & conditions mentioned in University Calendar.
- 14. Registration form does not ensure the admission.

Fee Structure

S.No.	Name of the Course	First Installment*	Second Installment*
1	B.Sc. (Hons. in Computer Science) – 1 st year		
2	BCA- 1 st Year	To be announced later on	
3	PGDCA		

Note:

- 1. Students are bond to pay any increase in fees by University, Govt and College during the session
- 2. Library security will be charged from new students at the entry level.

Reservation of seats

Seats will be reserved in accordance with Punjab Govt. norms.

1.	Sc/ST	25%
2	Backward Class/OBC	10%
3	Border area/Backward area	02%(1%
		per)
4	Sports person	01%
5	Children and grandchildren of Punjab's freedom	01%
	fighters	
6	Disability quota (deaf,dumb,blind etc)	05%
7	Soldiers and her children/ and their widows	01%
8	Neem soldiers chidren/widows	01%
9	Riots affected	01%
10	Terrorist affected (son/daughter/grand children)	01%



Hostel Charges

S.No	Hostel Accomodation	Rate per semester	Security Deposit
1	Three bedded room	Rs. 4800/-	
2	Two bedded room	Rs. 6000/-	To be announced later on
3	Single occupancy	Rs. 7200/-	

Note:

- 1. Accommodation in Hostel will be provided depending upon the availability of room.
- 2. All students are required to comply with all Hostel/Mess Rules which may be enforced by the In-charge Hostel/Mess from time to time as approved by the Head of the institute.
- 3. Hostel charges given above are subject to revision from time to time and students shall be required to deposit charges as applicable.
- 4. All the students staying in NIELIT Hostel should provide an undertaking

Mess/Canteen Charges

Mess/Canteen charges are as per actual charged by vendor.

Refund of fee

Application for refund of fee can be submitted on specified Performa in the institute within 30 days from the commencement of Academic session. Refund applications will be processed as per rules applicable:

S.No.	Fee Deducted	Date upto which application for refund of fee is received by the institute
1	Rs 2000/-	Prior to commencement of Academic session as notified by Punjabi University, Patiala
2	20%	Upto 15 days after commencement of Academic session as notified by Punjabi University, Patiala
3	50%	From 16 th day to 30 th day after commencement of Academic session as notified by Punjabi University, Patiala
4	No refund	30 days after commencement of Academic session as notified by Punjabi University, Patiala

Note:

- Fee deduction will be levied on first payable installment including all University charges & funds.
- > Refund Policy is applicable only for entry level classes.
- > Dates may be changed as per Government / University rules.





Warning Against Ragging

As per the directions of the Hon'ble Supreme Court of India, Ragging is the criminal offence and is totally banned and anyone found guilty of indulging in ragging and/or abetting ragging is liable to be severely punished



All the female students and staff members can approach this Cell for the early redressal of their grievances. It is constituted to ensure a safe environment for females in the institute.

Important

1. List of Fake Universities by UGC

https://www.ugc.ac.in/page/Fake-Universities.aspx

2. The information provided in this prospectus is subject to change as per rules of NIELIT & University. You are advised to visit website regularly.



General rules and regulations

- 1. The students are required to maintain a minimum of 75% attendance in the classes during the semester.
- 2. No student with shortage in attendance will be allowed to appear in the University examination
- 3. In order to be eligible for the University examination, students of degree classes are supposed to secure 25% of the total marks of all subjects or 25% in each subject.
- 4. The name of the student who remains absent continuously for ten days will be struck off.
- 5. If a student wants to leave the institute, he/she shall write an application, as per norms, duly signed by parent/guardian.
- 6. Every student is supposed to keep their identity card with themselves and shall produce it if and when asked by the institute's officials.
- The rules & regulations issued by University / NIELIT from time to time shall be applicable. Students are advised to check institute's website / notice boards regularly.
- 8. Library rules / Parking stand rules / Rules for fines shall be provided at the time of admission.



Contact persons for admission enquiry

Course	Name of Person	Contact
B.Sc. (Honours in Computer Science),	Ms Meenu Dhir, Joint Director	9779131848
BCA,	 Sh. Rakesh Bharti, Deputy Director 	9780080793
PGDCA	 Sh. Jaskirat Singh, Senior Assistant 	01881-257008
Website: www.nielit.gov.in/chandigarhEmail : training.chd@nielit.gov.in		



Events at NIELIT Chandigarh, Ropar Campus



Swachhta Pakhwada





Samvidhan Divas



Integrity Pledge during Vigilance Awareness Week





Skill Development Training for participants from CEPTAM DRDO



NIELIT Chandigarh got third prize for doing excellent work in Hindi Language in the year 2020-21

~







Master Trainers training on Blokchain Technology for technical officials



School students visit at NIELIT Ropar Campus



Tree Plantation drive



NIELIT Chandigarh got third prize in the Annual Official Language Shield Competition in the year 2021-22





~

Parliamentary committee inspection meeting on official language





2022-23

राष्ट्रीय इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी संस्थान, चंडीगढ़

इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार

स्थायी परिसर बिरला फार्म, बड़ा फूल, रूपनगर (रोपड़) -140001, पंजाब





