

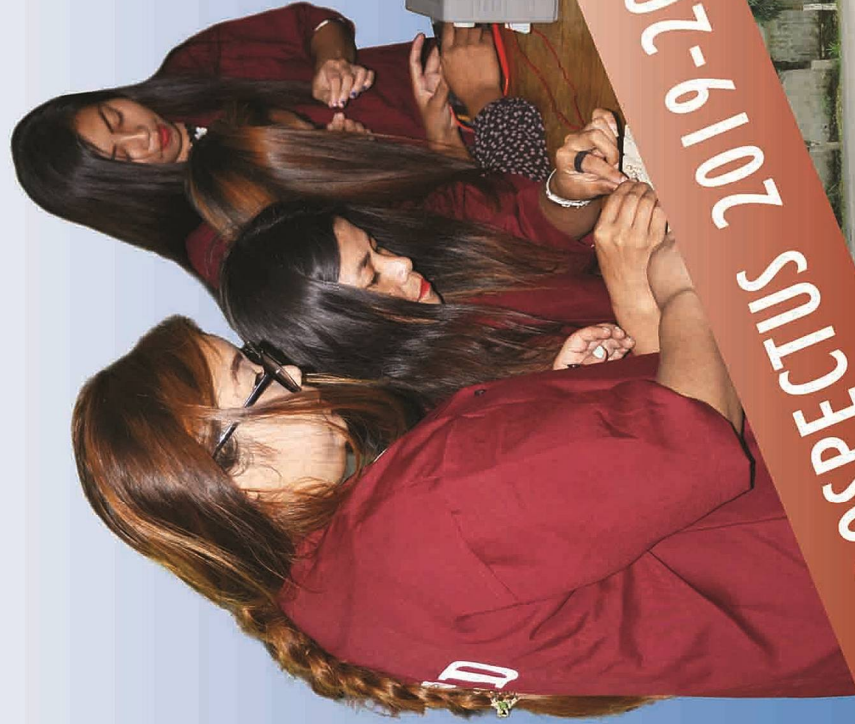


रा.इ.सू.प्रौ.सं
NIELIT
IMPHAL

एनएल ईकेन एनएल ईकेन एनएल ईकेन

NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY IMPHAL

An Autonomous Scientific Society of Ministry of Electronics & Information Technology (MeitY)
Govt. of India, Akampat, Post Box No. 104, Imphal - 795001, Manipur



PROSPECTUS 2019-20



e-mail: dir-imphal@nielit.gov.in, Website : nielit.gov.in/imphal

CONTENTS

	Page No.
<i>From the Desk of Executive Director</i>	- 01
1. NIELIT Society	- 03
1.1 NIELIT Schemes	- 04
2. About the Institute	- 05
3. Core Competencies of the Institute	- 06
4. Location and Connectivity	- 06
5. Lab, Infrastructure & Facilities	
5.1 Computer Science Lab	- 07
5.2 Communication Lab	- 07
5.3 Cyber Security & Forensic Lab.	- 08
5.4 IT Security Lab	- 08
5.5 PCB Lab	- 09
5.6 Power Electronics and Test & Measurement Lab.	- 09
5.7 Multimedia Lab.	- 09
5.8 Embedded Systems and IoT Lab	- 09
5.9 Medical Electronics Lab.	- 10
5.10 Mechanical Workshop	- 11
5.11 Library	- 11
5.12 Seminar Hall	- 11
5.13 Badminton and Multipurpose Hall	- 12

6. Extension Centres & Training Units

6.1	Churachandpur Extension Centre	- 13
6.2	Senapati Extension Centre	- 17
6.3	Training Unit at Kangpokpi District HQ	- 20
6.4	Training Unit at Tamenglong District HQ	- 20
6.5	Training Unit at Ukhrul District HQ	- 20
6.6	Training Unit at Chandel District HQ	- 20
6.7	Training Unit at Moreh District HQ	- 21

7. Courses offered

7.1	Formal University Affiliated Courses	- 21
7.2	Long Term Non-Formal Courses	- 22
7.3	Digital Literacy Courses	- 22
7.4	Job oriented NSQF aligned Skill Development Courses	- 22
7.5	Short Term Courses in the field of Information Technology (IT), Electronics & Allied fields	- 23

8. Sponsored Training Projects (2019-20)

8.1	“Capacity Building for North East Region” under PMKVY-2.0 sponsored by Ministry of DoNER	- 25
8.2	“SURYAMITRA- Skill Development Training Programme” under NISE sponsored by MNRE	- 26
8.3	“Skill Development Training Programme” under PMKVY sponsored by Manipur Society for Skill Development	- 27
8.4	Training of Visually Impaired Persons in Manipur on “Course on Computer Concepts (CCC) & Soft Skill	- 27
8.5	Setting up State of Art Digital Forensic Data Centre	- 27

9. Placement facility & initiatives	- 28
9.1 Model Career Centre (MCC)	- 28
10. Hostel Facilities	
10.1 Facilities	- 30
10.2 Hostel Fee	- 30
11. Academic Calendars & Events	- 31
12. Working hours and Holiday	- 32
13. In-Take and Reservation	- 32
14. Scholarship Schemes & Fee Concessions	- 33
15. Extracurricular Activities	- 33
16. Corporate Social Responsibilities	
16.1 Digital Locker	- 34
16.2 National Digital Literacy Mission (NDLM)	- 34
16.3 Jeevan Pramaan	- 35
16.4 Digital Financial Services	- 35
17. Academic Curriculum for Formal Courses affiliated to the Manipur University	
17.1 Diploma in Electronics and Communication Engg.	- 36
17.2 Diploma in Computer Science and Engg.	- 41
17.3 Post Graduate Diploma in Computer Application	- 46
17.4 Bachelor of Computer Application	- 48
17.5 Master of Science in Information Technology	- 53
18. Academic Curriculum for NIELIT Non-Formal Courses	
18.1 NIELIT-'O' Level IT	- 58
18.2 NIELIT Computer Hardware Maintenance(CHM-O)	- 59
18.3 NIELIT MAT-O Level	- 61

19. Academic Curriculum for Digital Literacy Courses	
19.1 NIELIT BCC	- 62
19.2 NIELIT CCC	- 63
20. Academic Curriculum for Job oriented NSQF aligned Skill Development Courses	
20.1 Solar PV Installer (Suryamitra)	- 65
20.2 Goods & Services Tax (GST) Accounts Assistant	- 65
20.3 Set-top Box Installer and Service Technician	- 66
20.4 LED Light Repair Technician	- 66
20.5 CCTV installation Technician	- 67
20.6 DTH Set Top Box	- 67
20.7 Field Technician - Air-Conditioning	- 68
20.8 Field Technician - UPS and Inverter	- 69
20.9 Field Technician -Other Home Appliance	- 69
20.10 Smartphone Repair Technician	- 70
20.11 Solar Panel Installation Technician	- 71
21. How to apply for admission	- 71
ANNEXURE-I : Placement Profile	- 73
ANNEXURE-II : Some Events in 2018-19	- 75
ANNEXURE-III : NIELIT Achievers in 2018-19	- 76

FROM THE DESK OF EXECUTIVE DIRECTOR

National Institute of Electronics & Information Technology (NIELIT) - an Autonomous Scientific Society, is the Human Resource and Skill Development arm in the area of IECT of Ministry of Electronics and Information Technology (MeitY), Government of India. It is also one of the National Examination Body, which accredits Institutions/organizations for conducting courses in Digital Literacy and Skill Development in the non-formal sector.

NIELIT Imphal is participating in Nation Building by conducting various long term & short term skill development courses in the fields of Electronics & Communication Engineering and Information Technology. NIELIT Imphal also offers various short term courses in the skill development sector with an objective of enhancing the employability of the youth of the state and country as a whole as mandated by the Govt. of India under the National Skill Development policy.

The long-term courses viz, Diploma in Electronics and Communication Engineering (AICTE recognized), Diploma in Computer Science & Engineering (AICTE recognized), Post Graduate Diploma in Computer Applications, Bachelor of Computer Applications and Master of Science in Information Technology (MSc. IT) are formal courses affiliated to Manipur University (A Central University). NIELIT 'O' Level courses in IT, Hardware and Multimedia are in the non-formal sector but leading to govt. recognized certificate/P.G. Diploma.

Over the years, NIELIT courses have benefited a number of students and its popularity has been increasing. So far the institution has produced 531 Electronics Engineering and 178 Computer Science & Engineering Diploma holders, 334 BCA and 58 MCA holders, 28 PGDCA holder more than 950 NIELIT IT, BI & CHM 'O' and "A" Level passed students. The institution has also trained more than **25,997** - persons on short-term courses in IECT. A total of **35,170** (including formal, non-formal and short term courses) candidates have been trained since its inception in the year 1988.

NIELIT Training Units/Centres are setup at the following hill districts as per request received from respective Deputy Commissioners of the following Hill Districts of Manipur viz. Tamenglong, Chandel (one of the aspirational district identified by Govt. of India), Ukhrul, Kangpokpi & Moreh in Tengnoupal District (Border Town of country neighboring Myanmar) to provide Digital Literacy and Skill Development trainings.

Model Career Centre (MCC) at NIELIT Imphal established with the funding from Directorate General of Employment, Ministry of Labour and Employment, Govt. of India to



connect local youth and other job-seekers with all possible jobs opportunities in a transparent and effective manner through the use of technology as well as through counseling and training. So far, MCC has organized 04 nos. of job fairs and 07 batches of TCS Free Employability training cum placement programme. The total number of employers and job seekers participated are 77 and 2550 respectively. As on date, MCC has mobilize for more than 4000 jobs/positions and more than 300 job seekers were placed.

Many of our ex-students are employed in well-known multinational/private companies, State and Central Government agencies and offices. (Annexure-I)

NIELIT Imphal Extension Centers at Senapati and Churachandpur are also started functioning since 2013 with intake capacity to train 600 students/year.

Besides the training activities, the Centre had organized various event for students and Staff. Some of the major events witnessed during the year 2018 -19 are mentioned at **Annexure-II.**

At present, the Institute has the following sponsored Projects:

1. Capacity Building for North Eastern Region, sponsored by MDoNER, Govt. of India, under PMKVY Scheme in the Job roles
2. “SURYAMITRA- Skill Development Training Programme” under NISE sponsored by MNRE, Govt. of India
3. “Skill Development Training Programme” under PMKVY sponsored by Manipur Society for Skill Development
4. Setting up State of Art Digital Forensic Data Centre
5. Training of Visually Impaired Persons in Manipur on “Course on Computer Concepts (CCC) & Soft Skill

(Th. Prameshwor Singh)

Executive Director
NIELIT Imphal

1. NIELIT SOCIETY

National Institute of Electronics & Information Technology (NIELIT), (erstwhile DOEACC Society) is an Autonomous Scientific Society under the administrative control of Ministry of Electronics & Information Technology (MeitY), Government of India. It was set up to carry out Human Resource Development and related activities in the area of Information, Electronics & Communications Technology (IECT). NIELIT is engaged both in Formal & Non-Formal Education in the area of IECT besides development of industry oriented quality education and training programmes in the state-of-the-art areas. NIELIT has endeavoured 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.

The history of NIELIT dates back to 1974 when the Department of Electronics (DoE) now Ministry of Electronics & Information Technology (MeitY), Govt. of India and the University Grants Commission (UGC) set up the first CEDT within the premises of Indian Institute of Science, Bangalore with assistance from Swiss Development Corporation. The objective was to bridge the gap between the academic institutions and industries by turning out Electronics/Computer Engineers specially trained in Product design. A decade after the successful running of CEDT, Bangalore, the Department of Electronics (now, MeitY) initiated a programme to set up similar Centres in other parts of the country with a wider objective to develop human resources at different levels and in different specialized areas of Electronics, Communication and Information Technology.

Over the last two decades, NIELIT has acquired very good expertise in IT training, through its wide repertoire of courses, ranging from 'O' Level (Foundation), 'A' Level (Advance Diploma), 'B' Level (MCA equivalent), 'C' Level (M-Tech level), IT literacy courses such as CCC (Course on Computer Concept), BCC (Basic Computer Course) and other such long term and short term course in the non-formal sector like courses on Information Security, ITes-BPO(Customer Care/Banking), Computer Hardware Maintenance (CHM-O/A level), Bio-Informatics(BI-O/A/B level), ESDM etc, besides, high end courses offered by NIELIT Centres at Post-Graduate level (M.Tech) in Electronics Design & Technology, Embedded Systems etc. which are not normally offered by Universities/Institutions in the formal sector, in association with the respective state Universities.

The basket of activities of NIELIT is further augmented by the wide range of projects that it undertakes. NIELIT has demonstrated its capability and capacity to undertake R&D projects, consultancy services, turnkey projects in office automation, software development, website development etc. NIELIT is also the nodal implementing agency on behalf of MeitY for Data Digitization of the population of 15 assigned States and 2 Union Territories for the creation of National Population Register (NPR) project of Registrar General of India (RGI).

NIELIT is also successfully executing the Agriculture Census and Input Survey project under which tabulation of about 10 crore data records have to be done. NIELIT has planned a road map for adopting appropriate pedagogy for metamorphosing NIELIT into an Institute of National Importance.

At present, NIELIT has forty (40) offices located at the following locations

Agartala	Delhi	Kohima	Ranchi
Aizawl	Dibrugarh	Kolkata	Ropar
Ajmer	Gangtok	Kokrajhar	Senapati
Aurangabad	Gorakhpur	Kurukshetra	Shillong
Bhubaneswar	Guwahati	Leh	Shimla
Calicut	Haridwar	Lucknow	Silchar
Chandigarh	Imphal	Lunglei	Srinagar
Chennai	Itanagar	Pasighat	Tezpur
Chuchuyimlang	Jammu	Patna	Tura
Churachandpur	Jorhat	Pali	Headquarters at New Delhi

It is also well networked throughout India with the presence of about 700 + institutes.

These Centres provide quality education & training programmes in Information, Electronic Design and related technologies/areas on long term and short term basis.

1.1 NIELIT Schemes

The objective of the NIELIT Scheme is to generate qualified manpower in the area of IECT at the national level, by utilizing the facilities and infrastructure available with the institutions/organizations in the non-formal sector. The Society is managed and administered by a Governing Council which consists of eminent academicians and professionals from IT Industries. Hon'ble Minister of Ministry of Electronics & Information Technology, Govt. of India, is the Chairman of the Governing Council of the Society. The Director General is the Chief Executive Officer of the Society and manages day to day affairs of the Society.

Manifold functions of the NIELIT Scheme are:

- Accreditation
- Registration
- Examination

Right from a familiarization certificate Course on Computer Concepts (CCC) to the foundation (O) level, Advanced Diploma (A) level, MCA Degree equivalent (B) level and M.Tech equivalent Degree (C) level, the society offers various Skill development courses to the students who couldn't go to for higher degree/Diploma to acquire knowledge and qualifications at par with the best in the country. A fact that it is perhaps best echoed by the whole-hearted support to the scheme, by leading IT professionals and educationists. A unique feature of the NIELIT scheme is its facility for horizontal entry to students from non-accredited institutes - so a student with a certain minimum level of computer knowledge need not start at the foundation 'O' level.

There are 75 (Seventy-Five) NSQF (National Skill Qualification Framework) aligned courses offered by NIELIT Centres. Detail of these courses are available at <http://www.nielit.gov.in>

2. ABOUT THE INSTITUTE

In today's global scenario Electronics, Communication and Information Technology are the disciplines of Technology which have maximum job potential in industries and companies. Therefore, becoming qualified personnel in Electronics/ Computer/Information Technology is quite challenging and reasonably well paying. However, it is not easy to come by. One needs good infrastructural facilities, good academic programme, a team of well qualified and dedicated faculty and disciplined environment. If you qualify, you will find that this Centre has a well-blended mix of the above attributes. Most of ex-students of this Centre are employed and some are doing exceptionally well. Let us hope that you also become one of them.



NIELIT Imphal was founded on October 1, 1988. The Centre became operational in July 1989 with the introduction of Three Years Diploma in Electronics Engineering Course. With the merging of all CEDTIs with DOEACC Society on 14th December 2002, all erstwhile CEDTIs' have been renamed as DOEACC Centres, now as NIELIT (National Institute of Electronics and Information Technology).

Spread over an area of more than 20 acres, it houses the main Institute Building consisting of Administrative wing, Lecture Halls, Faculty Rooms, Computer Labs, Mechanical Workshop, Electro-medical Laboratory, PCB Lab, Servicing cell, Cyber Forensic Lab, IT Security Lab and other laboratories. A new Academic Block is also constructed. Besides the institute's main building, the campus houses the staff quarters, students' hostels, guest house, electrical substation and other host of essential facilities.

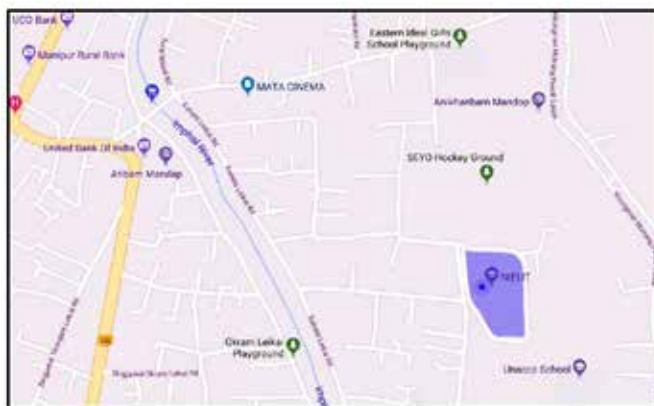
3. CORE COMPETENCIES OF THE INSTITUTE

- Information Security
- Cyber Security
- Medical Electronics
- Internet of Things (IoT)
- Renewable Energy

4. LOCATION & CONNECTIVITY

The campus of NIELIT Imphal is located at Akampat, Imphal East, Manipur about 5 kms in the south-east direction from the heart of the city. It is about 0.5 Km away from Singjamei Market.

Imphal, the capital of Manipur, nestles in the shadow of hills at the far north-east of the country. It is well connected by air with Kolkata, Guwahati, Aizawl, Agartala, New Delhi, Bangalore and Hyderabad. The nearest railway stations are Dimapur (215 km) and Jiribam (210 km) besides connected by national highways No. 2, 37 and 150. Manipur state in which the institute is located has a number of tourist spots. It is also the gateway to the prosperous economies of South-East ASEAN Countries – the border town of Tamu in Myanmar which is 103 kms away from Imphal.



Imphal has 03 Central Universities - Manipur University (MU), Central Agricultural University (CAU) & National Sports University and, 05 State & Private Universities viz. Dhanamanjuri University, Manipur University of Culture, Manipur Technical University, Manipur International University and Sangai International University. Besides these, there are two Medical Colleges (Regional Institute of Medical Sciences(RIMS) & Jawaharlal Nehru Institute of Medical Sciences (JNIMS), one Institute of National Importance - National Institute of Technology (NIT), Manipur, Manipur Institute of Management Studies (MIMS), Manipur Institute of Technology (MIT), Central Institute of Plastic Engg & Technology (CIPET), Indian Institute of Information Technology (IIIT), a large number of under graduate colleges, MANITRON and Institution of Bio-resources and Sustainable Development (IBSD).

5. LAB, INFRASTRUCTURE & FACILITIES

5.1 Computer Science Labs

There are 12 nos. of Computer Science Labs under Local Area Network system. All labs are well equipped with branded desktop PCs, well furnish Tables & Chairs with Projector Display. All the PCs are provided internet connection through NKN network.

Security and access control of these labs are provided by Computers Servers which include HP Proliant GL, ML, DL series, HP Ai01200r Storage server with 9TB capacity, HCL Infiniti series etc. The LAN is well protected by Dell Sonicwall NSA3500 Firewall with load balancer which provides automated fail-safe Internet connection. The systems on the LAN are running on latest Microsoft Windows under Microsoft Campus agreement. One machine is allotted per student for all courses.



5.2 Communication Lab

It is equipped with Digital & Analog CROs, signal and function generators, Digital & Analog Multimeters, Experiments on error budgeting, DA Cs and ADCs are also carried out in this lab. It has Digital Trainer Kits, Microprocessor and Microcontroller Kits, Digital Signal Processing Kits and Software for interfacing to Computers. Electronic circuit simulation facility has been added using Multisim. This Lab is well equipped with many TV

trainer kits, measuring instruments, Digital CRO, LCR-Q meter, Spectrum Analyzer, Wobulloscope, communication Trainer kits, (Analog & Digital kits) , Fiber Optic Trainers, Holography Trainer, Optical Power Meter, PCM (Pulse Code Modulation Trainer), Mechanical Splice Kit (Optical Fiber).



5.3 Cyber Security & Forensic Lab

The lab is equipped with advanced Cyber Forensic tools. It includes high end forensic workstation FRED, Imaging and analyzing software – CDAC Cyber check suite, Encase v7.0, Network Packet analyzing Software - CDAC Netforce Suite, Device Analyst Software - CDAC PDA Imager and Analyzer, Live forensic – F-Response Consultant Edition, Password Recovery/ breaking Software – Passware Kit forensic 10.0, Portable rainbow tables for password recovery and other – Norton Ghost 4.0, Norton 360 premium edition and various open source tools such as Wireshark, Nessus, Metasploit, Aircrack, Snort, BackTrack, OpenVAS etc.



5.4 IT Security Lab

The Centre has set up an IT (Information Technology) Security Lab. funded by Department of Information Technology, Ministry of Communication & Information Technology, Govt. of India, under ISEA (Information Security Education and Awareness) Programme. The Centre has specialization in IT Security.



5.5 PCB Lab

Design and Fabrication of PCBs are done in this Lab. CAD software are used for designing complicated PCB layouts. LPKF ProtoMat S62, a CNC-milling machine for fabricating prototype PCB has been installed in this Laboratory for use in making PCB Prototype.

5.6 Power Electronics and Test & Measurement Lab

It is equipped with Programmable coil winding m/c, Trainer kits, and many nos. of DC and AC motors and measuring instruments. Tools and Equipment for Solar based training program have been added in this lab recently. Servicing and Maintenance of equipment, both for in-house needs and for outside party are also carried out in this Laboratory. It is well equipped with modern servicing equipment such as Tektronics make 100 MHz Digital CRO with current Probe amplifier, PACE make SMD handling instrument, Agilent make 61/2 DMM, Universal Programmer Tester, Digital IC Tester (APLAB), Klapp, Weller and HAKO make temperature controlled solder and de-soldering station, 8-channel logic analyzer etc. It has antistatic workstations placed on antistatic floor.

5.7 Multimedia Lab

This laboratory is equipped with workstation class Multimedia Computers. The main workstation Xeon Processor is interfaced with Avid Express Pro HD with Mojo and other encoding & decoding devices. The main software used is Adobe CS 6, Maya, 3D Studio Max, Sound Forge, Combustion, etc. Consultancies for Video compositing, 2D Film Clips and Interactive Multimedia contents are undertaken in this laboratory. The laboratory has developed a Manipur 2D Animation Film titled “Uchek Langmeidong” and was released by the Chief Secretary, Govt. of Manipur on 4th April, 2008.



5.8 Embedded System & IoT Lab

The Lab has various tools (hardware and software). These tools can be used for providing comprehensive training in embedded systems in VLSI System (using FPGA) design and IoT (internet of things). Moreover these are industry standard tools and can be used in developing and prototyping design ideas in these areas. The lab also facilitates implementation of student's projects. The Lab has the following tools-

Software Available:

KEIL Microversion (C51 and MDK ARM)

- Industry standard design entry EDA tool
- Reuse circuitry through use of hierarchical blocks
- Automate integration of FPGA and PLD
- Design using HDL or Verilog

MULTISIM

- Electronic schematic capture and simulation
- Support for microcontroller simulation
- Integrated with PCB layout software

OrCAD Capture

- Industry standard design entry EDA tool
- Reuse circuitry through use of hierarchical blocks
- Automate integration of FPGA and PLD
- Design using HDL or Verilog

OrCADPSpice A/D

- Advance simulation for analog and mixed signal environments.
- Supports over 19,000 simulation models

Hardware

- Microcontroller (8051, AVR, PIC, ARM, ARODINO)
- Raspberry Pi

5.9 Medical Electronic Lab

This laboratory is meant for repairing and maintenance of electro medical equipment. The Centre has trained Service Engineers and Technicians for electro medical equipment like X-Ray, ECG, EEG, Defib Analyser, USG, etc.

The Centre has specialized in repair and maintenance of X-ray machine. The Centre has repaired most of the defective X-ray machines at Govt. Hospitals of Manipur, besides other electro medical equipment in various hospitals.



5.10 Mechanical Workshop

It houses Universal Milling m/c, Universal lathe m/c, and many no. of Centre Lathe m/c including Hobbymate bench Lathe, Radial Drilling m/c, Sensitive Drilling m/c, Grinder, shaping m/c, Slotting m/c, Power hacksaw, bending (folding) m/c, Spot welding m/c, Guillotine Shearing m/c, etc. Moulds and Electronic equipment enclosures are designed and fabricated using CAD (AutoCAD) Software for outside parties/ customers. Sheet metal and carpentry facilities are also available as per AICTE norms.



5.11 Library

This library has more than 14262 volumes of books on Electronics, Computers and allied fields. Library is automated by using KOHA library software. Uninterrupted Internet facility is available in the library for the students. The Library has access to International Journals including IEEE Journals through MCIT Library Consortium besides 17 nos. of Periodicals are being subscribed.

A digital library is being setup at the newly constructed Academic Block of the Campus. Subscriptions of popular electronic journal/magazine will be available in this digital library.



5.12 Seminar Hall

A new Seminar Hall of capacity 150 seats is constructed. This is used to conduct functions, seminar and any other programmes from time to time.



5.13 Badminton and Multipurpose Hall

New facilities such as Badminton Hall, Multipurpose Hall, and Basketball Court are being constructed for practice of sport events, Yoga etc.



6. EXTENSION CENTRES & TRAINING UNITS

Though the state of Manipur is very small, Major portion of the state is covered by hill ranges. NIELIT Imphal finds difficulties to reach its services and facilities to each and every corner of the State.

NIELIT Imphal has setup two full-fledged Extension Centres of the Institute were setup at Churachandpur and Senapati District Headquarters. Training units are also setup at the following five (05) Hill Districts of Manipur with the help of Deputy Commissioners/ Autonomous District Councils

- i. Ukhrul District HQ
- ii. Tamenglong District HQ.
- iii. Kangpokpi District HQ.
- iv. Chandel District HQ.
- v. Moreh (at ADC Office Complex, Moreh)

6.1 NIELIT Churachandpur Ext. Centre

Churachandpur Extension Centre of NIELIT Imphal was setup under the project “Development of North-Eastern Region by enhancing the raining/ Education capacity in the IECT area”. The Centre was formally inaugurated by Secretary, Ministry of Communications & Information Technology, Govt. of India on 19th August, 2013 through video conferencing in presence of Deputy Commissioner, Churachandpur District. The Centre became operational since January, 2013. Till date the Centre has trained 5097 students.



Location and Connectivity

The Centre is presently located at Hill Town, Tipaimukh Road, Churachandpur at the temporary premise provided by the Govt. of Manipur. It is about 50 meter from the Churachandpur District Hospital and 200 meter from the main bus station.

Permanent Campus of the Institute

The Centre's permanent campus is being setup on the 4.13 acres of land provided by Govt. of Manipur at Tuibong Churachandpur District Headquarter. It is likely to be shifted the

the Permanent Campus by July, 2019. The campus is surrounded by the Government offices like Deputy Commissioner's office, Fire Department, Post Office, District magistrate etc. The campus development work is likely to be completed by July, 2019. The permanent campus of the Institute will have Academic Block, Administrative Block, Girl's Hostel-cum-resident Faculty Quarter, Cafeteria, Car Parking, Playground etc.



Infrastructure & Facilities

At present the Centre has the following facilities:

- (i) Three (3) Computer Labs which has a total of 70 branded computers. All the labs are well-furnished and equipped with Projection System, Whiteboard and furniture. The Computers are connected to LAN through a server and they are regularly upgraded to the latest software.
- (ii) One Computer hardware-cum-electronics lab equipped with latest electronics devices like Spectrum analyzer, digital power supply, clamp meter, advanced digital multi meter etc. and has got a dedicated soldering station.





- (iii) One Classroom of capacity 50 students and well equipped with whiteboard and projector.
- (iv) The institute has 24/7 uninterrupted power supply through 3 phase connection and has Backup facility with DG Sets of capacity 63 KVA & UPS. Apart from these facilities, the Institute has proper indoor and outdoor lighting. All these equipment and facilities are supported by proper electrification works and safety mechanisms.
- (v) The Centre is connected to Internet through two ISPs (2 mbps from BSNL and 10 Mbps from a private ISP) and these internet facility is extended to all the students of the institute.
- (v) Two (2) Staff/Faculty rooms.
- (vi) Well-furnished Library with computerized library management systems. Various books on Electronics, Computers and allied field are available. Library is automated by using KOHA library software. Internet facility is also available.
- (vii) The Institute is monitored 24/7 by CCTV surveillance cameras.
- (viii) The institute has Video conference facility.

Faculties & Staff

NIELIT Churachandpur has well experienced and qualified teaching faculty. The faculties undergo trainings from time to time to update their knowledge in various advancements of technologies. Overall administration of the institute is supervised and monitored by the Executive Director. In addition, there are separate Officers-in-charge to oversee the academic section and administrative section.

Courses Offered & Eligibility

At present, the institute offers various long term and short term courses in the field of IT & related discipline.

SL	Name of the Course	Eligibility	Duration	NSQF Level
LONG TERM COURSE:				
1	One year Foundation Course in Information Technology (NIELIT "O" Level IT")	ITI Certificate passed (1 year after class X)	1 Year	5
SHORT TERM CERTIFICATE COURSES:				
1	Certificate course in Arduino based Embedded System Design	Diploma in Electronics / ECE / Electrical/ EEE / Instrumentation/ Biomedical / Computer Science /IT BSc in Electronics/ Instrumentation/ Computer Science /IT	300 Hrs	4
2	Advance Diploma in Computer Application Accounting and Publishing	12 th pass with knowledge of Basic Computer and Internet Concepts.	200 Hrs	4
3	Certified Android Apps Developer	Graduate/Undergraduate and knowledge of Java, Internet Concepts and Database	100 Hrs	5
4	Certified Course in Web Designing	Basic knowledge of computer	80 Hrs	3
5	Course on Computer Concepts (CCC)	Knowledge of reading and writing in English.	80 Hrs	3
6	Certificate Course in PC Assembly & Maintenance	10 th Pass with basic knowledge of computer	80 Hrs	3
7	Certified Graphic Designer	12 th Pass	80 Hrs	5
PMKVY COURSES:				
1	Field Technician-Other Home Appliance	8 th Standard passed, ITI/Diploma (Electrical/Electronics)	300 Hrs	4
2	Field Technicians – UPS and Inverter	8 th Standard passed, ITI/Diploma (Electrical/Electronics)	240 Hrs	4
3	CCTV Installation Technician	12 th Pass	200 Hrs	4
4	Mobile Phone Hardware	10 th Pass with one year experience	200 Hrs	4

6.2 NIELIT Senapati Extension Centre

NIELIT Senapati an Extension Centre of NIELIT Imphal. It was setup under the project “Development of North-Eastern Region by enhancing the Training/Education capacity in the IECT area”. The Centre was formally inaugurated on 10th July, 2013 by Deputy Commissioner, Senapati District. The Centre became operational since July, 2013. Till date the Centre has trained more than 4500 students.

Location and Connectivity

The Centre is presently located at Broadway Complex at Senapati Bazaar and also a training unit at Angkailongdi (Samaritan School campus) which is about 500m from the Senapati Bazaar. The Centre’s permanent campus is under construction on the 3.60 acres of land provided by Govt. of Manipur in the Old District Hospital campus of Senapati district. The permanent campus will have administrative block, five (5) well-furnished computer Labs with capacity of 50 Computers each, library, classroom. It will also have Girl’s hostel within the campus.

Infrastructure

At present the Centre has the following facilities:

(i) Five (5) Computer Labs which has a total of 100 branded computers. All the labs are well-furnished and equipped with Projection System, Whiteboard and furniture. The Computers are connected under LAN through a high end server and they are regularly upgraded with the latest software.

(ii) One (1) hardware lab with the latest and high end Electronics equipment like Spectrum analyzer, digital power supply, clamp meter, advanced digital multi meter, True RMS Multi-meter, Digital DC power supply, etc.

(iii) The institute has 24/7 uninterrupted power supply through 3 phase connection DG Sets and UPS Backup facility. All these equipment and facilities are supported by proper electrification works and safety mechanisms.

(iv) The Centre is connected to Internet through two ISPs (10 Mbps from Kangla Enterprises and 5 Mbps from NIC) and these internet facilities is extended to all the students of the institute.



(v) Well-furnished Library with computerized library management systems. Various books on Electronics, Computers and allied field are available.

(vi) The Institute is monitored 24/7 by CCTV surveillance cameras.

(vii) The Institute has Video conference facility.

Faculty & Staff

NIELIT Senapati has well experienced and qualified teaching faculty. The faculties undergo trainings from time to time to update their knowledge in various advancements of technologies. Overall administration of the institute is supervised and monitored by the Executive Director. In addition, there are separate Officers-in-charge to oversee the academic section and administrative section.

Projects developed:

NIELIT SENAPATI EXTENSION CENTRE has developed a web enabled software titled “Students Information Management System” for computerization of student’s related records and works in Schools and Colleges.

The software will automate Admission process, Admitted students details, Fee payment, Exam Form fill up, Exam result, Promotion Placement record and other related information for a particular student.

This software will minimize manpower, time and paper works.

This is an initiative taken by the NIELIT Senapati under Digital India.

The software is free for use by the govt. recognized Schools and Colleges in Manipur. A very nominal fee would be charged towards installation and annual maintenance fee if required.

Entrepreneurs created:

NIELIT SENAPATI EXTENSION CENTRE had conducted a course titled “LED Light Repair Technician” for 2-months duration under PMKVY Scheme.



Out of 31-students, 28-students are certified by Electronics Sector Skill Council of India (ESSCI). 8-certified students belonging to Senapati have become entrepreneurs and started assembling and repairing of LED bulbs. NIELIT Senapati is providing all Technical supports to them.

Courses Offered & Eligibility

SL	Name of the Course	Eligibility	Duration
LONG TERM COURSE:			
1	NIELIT-IT "O" Level"	ITI Certificate passed (1 year after class X)	1 Year
SHORT TERM CERTIFICATE COURSES:			
1	Advanced Diploma in Computer Application, Accounting & Publishing	10+2 pass	200 hrs
2	Desktop Publishing (DTP)	Knowledge of Basic Computer Concept and 10 th pass	2 Months
3	Certified Course in Web Designing	10 +2 pass with basic knowledge of computer	2 Months
4	Course on Computer Concepts (CCC)	Knowledge of reading and writing in English.	2 Months
5	Assembly & Maintenance of PC	10+2 pass with basic knowledge of computer	240 hrs
6	Financial accounting using TALLY ERP 9.0	10+2 pass with basic knowledge of computer	2 Months
7	Certified Multimedia Developer	10+2 pass or ITI or Diploma or Diploma under going	200 hrs
8	CCTV Installation Technician	10+2 pass	200 hrs
9	Advanced Diploma in Java Enterprise edition (JEE)	BE/B.Tech/Diploma/ Graduate in IT	420 hrs

6.3 Training Unit at Kangpokpi

One Study Centre of NIELIT Imphal was setup at Kangpokpi District of Manipur. The Centre is located at Old Office building of Autonomous District Council (ADC), Kangpokpi. One classroom and one computer lab of 20 seats are setup at the rent free rooms provided by Chief Executive Officer, ADC, Kangpokpi.

Courses offered:

- i. Course on Computer Concepts (CCC)
- ii. Advanced Diploma in Computer Application Accounting and Publishing (ADCAAP)

6.4 Training Unit at Tamenglong

Study Centre of NIELIT Imphal at Tamenglong District, Manipur is attached at the Hostel of Tamenglong Higher Secondary School. One classroom and one computer lab of 20 seats were setup at the rent free rooms provided by Deputy Commissioner, Tamenglong. **Courses offered:**

- i. Course on Computer Concepts (CCC)
- ii. Advanced Diploma in Computer Application Accounting and Publishing (ADCAAP)

6.5 Training Unit at Ukhrul

Ukhrul Study Centre of NIELIT Imphal was setup with the aim to provide IT training to the local youth under Border Area Development Programme (BADP) of Govt. of Manipur. Deputy Commissioner, Ukhrul District provided space within the DC office Complex for setup of one classroom and one computer lab of 20 seats.

Courses offered:

- i. Course on Computer Concepts (CCC)
- ii. Advanced Diploma in Computer Application Accounting and Publishing (ADCAAP)

6.6 Training Unit at Chandel

Chandel Study Centre of NIELIT Imphal is located at D-Block of Deputy Commissioner's Office, Chandel District. One classroom, one computer lab of 20 seats and Faculty room were set up at the spaces provided by DC. The Centre was set up with the aim to reach border areas of Manipur.

Courses offered:

- i. Course on Computer Concepts (CCC)
- ii. Advanced Diploma in Computer Application Accounting and Publishing (ADCAAP)

6.7 Training Unit at Moreh

Study Centre of NIELIT Imphal at Moreh is located at Additional Deputy Commissioner's Office, Moreh, Tengnoupal District. One classroom, one computer lab of 20 seats and Faculty room are being set up at the Centre.

Courses offered:

- i. Course on Computer Concepts (CCC)
- ii. Advanced Diploma in Computer Application Accounting and Publishing (ADCAAP)

7. COURSES OFFERED

7.1 Formal University Affiliated Courses

Sl.	Name of the Course	Course Duration	Certificate awarded by
1	Diploma in Diploma in Electronics and Communication Engineering (DECE)	03 years (6 Semesters)	Manipur University
2	Diploma in Computer Science and Engineering (DCSE)	03 years (6 Semesters)	Manipur University
3	Post Graduate Diploma in Computer Applications (PGDCA)	01 year (2 Semesters)	Manipur University
4	Bachelor of Computer Application (BCA) Course	03 years (6 Semesters)	Manipur University
5	Master of Science in Information Technology (MSc.IT)	02 years (4 Semesters)	Manipur University

7.2 Long Term Non-Formal Courses

Sl.	Name of the Course	Course Duration	Certificate awarded by	NSQF Aligned Level
1	NIELIT 'O' level IT course	01 year (2 Semesters)	NIELIT	5
2	NIELIT CHM-"O" Level Course on Computer Hardware Maintenance	01 year (2 Semesters)	NIELIT	4
3	NIELIT MAT-O Level (Diploma in Multimedia & Animation Technology)	01 year (2 Semesters)	NIELIT	5

7.3 Digital Literacy Courses

Sl.	Name of the Course	Course Duration	Certificate awarded by	NSQF Aligned Level
1	ACC - Awareness in Computer Concepts	20 Hours	NIELIT	-
2	BCC - Basic Computer Course	36 Hours	NIELIT	-
3	CCC - Course on Computer Concepts	20 Hours	NIELIT	3

7.4 Job oriented NSQF aligned Skill Development Courses

Sl.	Name of the Course	Course Duration (hours)	Certificate awarded by	NSQF Aligned Level
1	Solar PV Installer (Suryamitra)	300	SCGJ	4
2	BFSI Goods & Services Tax (GST) Accounts Assistant	100	BFSI	4
3	DAS Set-top Box Installer and Service Technician	200	ESSCI	4

4	LED Light Repair Technician	200	ESSCI	4
5	CCTV installation Technician	200	ESSCI	4
6	DTH Set Top Box	200	ESSCI	4
7	Field Technician - Air-Conditioning	200	ESSCI	4
8	Field Technician - UPS and Inverter	200	ESSCI	4
9	Field Technician -Other Home Appliance	200	ESSCI	4
10	Mobile Phone Hardware	200	ESSCI	4
11	Solar PV System Installation Technician	200	ESSCI	4

7.5 Short Term Courses in the field of IT, Electronics & Allied fields

Sl. No.	Course Name	Duration in hours	Eligibility	Course Fee (in Rupees)
NSQF Aligned IT COURSES				
1	Certificate Course in Linux, Apache, MySQL and PHP	80	Programming Knowledge	₹ 3,432
2	Certificate Course in System Administration using Linux	80	Programming Knowledge	₹ 3,432
3	Certified Multimedia Developer	80	XII Pass with Computer Knowledge	₹ 3,432
4	Certificate course in Web Designing	80	Computer Knowledge	₹ 3,432
5	Certified Android Apps Developer	100	Programming Knowledge with Concepts of OOP's	₹ 4,290
6	Advanced Diploma in Computer Application Accounting and Publishing	200	XII pass	₹ 8,580

NSQF Aligned ELECTRONICS COURSES				
7	Certificate Course in PC Assembly and Maintenance	80	ITI/Diploma/XII pass with Computer/Elect. Knowledge	₹ 4,110
8	Solar Power Installation, Operation and Maintenance	80	XII Pass	₹ 4,110
9	Certificate Course in VLSI Design	80	Engineering Graduate (Undergoing also)	₹ 4,110
10	Certificate Course in DSP using MATLAB	80	Engineering Graduate (Undergoing also)	₹ 4,110
11	Certificate Course in Embedded System Design using ARM/Cortex Microcontroller	80	Engineering Graduate (Undergoing also)	₹ 4,110
12	Smartphone Repair Technician	200	X Pass	₹ 10,274
13	Repair & Maintenance of ECG and ICCU Equipments	300	X Pass	₹ 15,411
14	Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine)	300	X Pass	₹ 15,411
15	Repair and Maintenance of Dental Equipment	300	X Pass	₹ 15,411
Non NSQF Aligned IT COURSES				
16	Certificate course in Desk Top Publishing	80	Computer Knowledge	₹ 4,000
17	Certificate course in .NET	80	B.Sc + Programming Knowledge	₹ 4,000
18	Certificate course in Programming in C Language	80	Computer Knowledge	₹ 4,000
19	Certificate course in Programming in C++	80	Programming Knowledge	₹ 4,000
20	Certificate Course in Core Java	80	Computer Knowledge	₹ 4,000

21	Advance Java (J2EE)	80	Basic knowledge of programming	₹ 8,500
22	Certificate Course in Python programming	80	Computer knowledge	₹ 4,000
Non NSQF Aligned FINANCIAL ACCOUNTING COURSES				
23	Certificate course in Financial Accounting Using Tally ERP 9.0	100	XII pass with Computer Knowledge	₹ 5,000
Non NSQF Aligned ELECTRONICS COURSES				
24	Certificate Course in Home Appliances & Automation Electronics	80	10+2/ITI/Undergoing Diploma	₹ 5,000
25	Certificate Course in Embedded System Design with 8051/AVR/ARDUINO Micro-controller	80	Diploma / BE / BSc. Physics	₹ 5,000
26	Certificate Course in Embedded System and IoT	80	Diploma / BE / BSc. Physics	₹ 5,000

Note: GST applicable to all the Course Fees

8. SPONSORED TRAINING PROGRAMMES & PROJECTS

From time to time, NIELIT Imphal has been entrusted by Govt. of Manipur and Govt. of India in Skill Development and R&D projects with funding/sponsorship. In the current academic year following training schemes are assigned to NIELIT by different funding agencies.

8.1 Capacity Building for North Eastern Region (CBNER)

Capacity Building for North East Region is a free residential placement linked outcome-based Skill Development program sponsored by Ministry Of Development Of North Eastern Region, Govt. of India for imparting skill training to the unemployed youth of North East Region (NER) under the flagship of Pradhan Mantri Kaushal Vikas Yojana (PMKVY).

Job roles for training in the academic session 2019-2020 are:

- Solar PV Installer (Suryamitra)
- Solar PV Installer - Electrical
- Field Technician – UPS and Inverter
- Field Technician – Other Home Appliances
- Field Technician – Networking and Storage
- Smartphone Repair Technician
- P C B Assembly Operator
- Welding Operator
- Field Technician – Air-conditioned

8.2 “SURYAMITRA- Skill Development Training Programme” under NISE sponsored by MNRE

National Institute of Solar Energy (NISE) is conducting “Suryamitra” training program to provide skilled technicians for installation, commissioning, Operation & Maintenance in the field of solar technology. The main objective of this program is to train the 10+2 passed, ITI/ diploma holders/ as field technicians to execute National Solar Mission (NSM) programmes across the country. The training programme is sponsored by Ministry of New and Renewable Energy, Govt. of India



Figure 1: Solar PV Installer Students during the training

8.3 “Skill Development Training Programme” under PMKVY sponsored by Manipur Society for Skill Development

Manipur Society for Skill Development (MSSD) is an initiative of the Government of Manipur under State Skill Development Mission (SSDM) to enable youth to be skilled for employment opportunities in a holistic manner. The mission aims that the youth would be trained in skills as per their capabilities & merit to make them employable

Job roles for training in the academic session 2019-2020 are:

- Goods & Services Tax GST Accounts Assistant
- CCTV installation Technician
- DTH Set Top Box
- Field Technician - Air-conditioning
- Field Technician - UPS and Inverter
- Field Technician -Other Home Appliance
- LED Light Repair Technician
- Mobile Phone Hardware
- Suryamitra
- Solar PV System Installation Technician

8.4 Training of Visually Impaired Persons in Manipur on “Course on Computer Concepts (CCC) & Soft Skill”

The main objective of the proposal is to train 200-blind persons of Manipur in NIELIT CCC as per a special representation received from Volunteers for the Blind Foundation, D-381, Defence colony, New Delhi-110024 for imparting training on “Course on Computer Concepts” (CCC) to the blind persons.

The training will be of 200 hrs duration (4-weeks/1-month) covering NIELIT CCC syllabus with Soft skill (assuming double time as of training to normal persons).

The training would be implemented using Indian text to speech software titled “Shruti Drishti” with Braille refreshable key board to train blind students.

The outcome of this proposal for imparting training in use of Information Technology is to make IT literate through CCC and to have the opportunities for the blind persons in applying jobs under the quota of “Persons with Disabilities”.

8.5 Setting up State of Art Digital Forensic Data Centre

To address prevention of cybercrimes with effective and timely investigation of such crimes and to address the associated cyber security issues, NIELIT Kohima Nagaland has been

working on Cyber Forensics R&D and providing capacity building trainings with hands-on experience to the police officials of NE States in the area of cybercrime investigations and forensics analysis services for the last 8 years with active support from Ministry of Electronics & IT (MeitY) Govt of India. With emergence of new technologies and new devices the nature of online crimes has become more sophisticated and complex and there is a rapid increase on Cyber Crimes. To prepare the LEA to address such crimes efficiently updating the lab facilities with latest forensics tools and upgrading the training content to address the multitude of emerging crimes is essential. Digital forensics resource sharing and management for efficient sharing of software, storage and computing as well as providing virtual technology has emerged as cost effective solution. In addition, utilizing such technology maximizes the outreach particularly in NE States benefiting the LEAs as a whole.

9. PLACEMENT FACILITY & INITIATIVES

Initiatives are taken up from time to time for conduct of campus interviews, Job fair and career counselling etc. A mega job fair was organized in the year 2018. Total no. of students placed in 2018 is 13 (from long term course only). Companies/Organizations tie-up and who have employed our ex-students are placed at **Annexure-I**.



One day mega Job Fair organized by NIELIT Imphal in August-2018

9.1 Model Career Centre (MCC)

As part of the National Career Service (NCS) programme, Director General of Employment & Training, Ministry of Labour and Employment entrusted 5 NIELIT Centres (including NIELIT Imphal) to establish Model Career Centres which would be enabled by making the right infrastructure and linkages available to perform counseling functions. Model Career Centres will connect local youth and job-seekers with all possible job opportunities in a transparent and effective manner through counseling and training. While the state-of

the-art technology driven National Career Service portal will, in a sustained manner, provide information about available job opportunities and resources for Model Career Centres to function effectively. The MCC would be the pivoted outreach and counseling interfaces of the NCS for teeming millions of aspiring youth from rural, semi urban areas as well as from disadvantaged section of the society.



Who'll be benefited from MCC:

- i. Unemployed candidates seeking jobs.
- ii. Students seeking career counseling.
- iii. Students seeking scholarship guidance.
- iv. Candidates seeking vocational or occupational guidance.
- v. Illiterate under-privileged sections of society, blue-collar workers seeking placements and guidance.
- vi. Persons with different disabilities (PWDs), ex-servicemen, veterans or senior citizens etc.
- vii. Employers seeking suitable candidates.
- viii. Since its inception the centre has been delivering the following services
- ix. National Career Service Portal online registration for job seekers, employers, training providers, local skills providers
- x. Assisting aspiring candidates fill online application for government exams-educational and jobs related
- xi. Organizing job fairs
- xii. Organizing placement drives
- xiii. Disseminating job and scholarship information to the youth
- xiv. Conducting career guidance seminar and workshops at various schools and colleges across the state
- xv. Conduction National Career Service promotion activities
- xvi. Provide free internet access to NCS registered students
- xvii. Till date the centre has organized various career guidance workshop and NCS outreach programs, two job fairs and various placement drives and has placed close to 200 candidates and has provided counseling for around 2000 candidates.

10. STUDENTS HOSTEL

10.1 Facilities:

Separate Hostels are available for Boys and Girls. Boys' hostel can accommodate about 60 students and 60 in Girl's hostel. The seats are allocated on the basis of necessity. Hostel mess is managed by a contractor. The monthly mess bill works out to about Rs 3,000/-. The Institute provides medical facilities to the students and residents in the campus by employing a resident doctor in the campus who is assisted by a trained nurse from time to time. Common medicines are provided free of cost. The Govt. Primary Health Centre is located just 500 meters away from the NIELIT campus at Akampat. In case of emergency, the institute arranges hospitalization of the patient and informs his guardian /parents.

Two more hostels for SC/ST boys and Girls of capacity 100 students each are being constructed with funding from North Eastern Council.



Figure 1: Girl's hostel



Figure 2: Boy's Hostel

10.2 Hostel Fee

Hostellers have to deposit the following fees:

A. Fees at the time of admission

Sl.	Particulars	Amount
1	Room rent and hostel maintenance fee for 01(one) year	₹ 5,000/-
2	Hostel caution money deposit (one time)	₹ 1,500/-
Total		₹ 6,500/-

B. Fees for subsequent years

₹ 5,000/- against Room rent and hostel maintenance fee per semester

11. ACADEMIC CALENDAR & EVENTS

Sl. No	Academic	Date
1	Start of Classes – Even Semester	14 th Jan'19
2	Swachh Bharat Abhiyan	15 th March'19
3	NIELIT Annual Sports Meet	18 th & 19 th March'19
4	Annual Students Study Tour (all course)	20 th March'19
5	Last date of Unit Test-I question paper submission	26 th March'19
6	Unit Test-I	28 th & 29 th March'19
7	Last date of Unit Test-II question paper submission	29 th April'19
8	Unit Test-II	1 st & 2 nd May'19
9	Last date of Unit Test-III question paper submission	29 th May'19
10	Unit Test-III	30 th & 31 st May'19
11	End of Classes – Even Semester	31 st May'19
12	Start of Classes – Odd Semester	9 th July'19
13	Last date of Unit Test-I question paper submission	7 th Aug'19
14	Unit Test-I	8 th & 9 th Aug'19
15	Last date of Unit Test-II question paper submission	13 th Sept'19
16	Unit Test-II	16 th & 17 th Sept'19
17	Swachh Bharat Abhiyan	30 th Sept'19
18	Foundation Day cum Fresher Meet	1 st Oct'19
19	Last date of Unit Test-III question paper submission	18 th Nov'19
20	Unit Test-III	19 th & 20 th Nov'19
21	End of Classes – Odd Semester	30 th Nov'19

For the year 2020, updates will be provided to the institute's website <https://nielit.gov.in/imphal>

12. WORKING HOURS AND HOLIDAY

NIELIT Imphal and its Extension Centre/Training Unit follow five working days in a week from Monday to Friday. In addition, the Institute follows the Schedule of holidays as per the rules of the Government of India and Central Government Employees Welfare Coordination Committee (CGEWCC), Manipur. The working hour is from 9:00 a.m to 5:30 p.m. However, the classes are held between 7.00 am and 5.30 pm with special arrangements.

13. IN-TAKE AND RESERVATION

In-take capacity of the various courses are:

Sl. No.	Courses	Imphal		Senapati		Churachandpur	
		January	July	January	July	January	July
1	DECE		60				
2	DCSE		60				
3	BCA		160				
4	MSc.IT		50				
5	PGDCA		50				
6	NIELIT 'O' Level	60	200	30	30	30	30
8	CHM-'O' Level	20	20	30	30	30	30
10	MAT-'O'	20	30				
11	Other Course	Wil be notified from time to time					

15%, 7.5% and 27% of seats are reserved for SC, ST and OBC candidates respectively. Other reservations include 3% for physically handicapped persons as per Govt. of India rules. However, candidates applying against reserved seats will have to qualify in the admission test.

14. SCHOLARSHIP SCHEMES & FEE CONCESSIONS

Topper students and students who secured high marks in the University exams are awarded every year. Students of NIELIT Imphal enjoy various scholarships extended by UGC, North Eastern Council (NEC), State Governments and NIELIT Society.

Scholarship Scheme for SC/ST/Physically Handicapped/Female Candidates: NIELIT has been refunding the Examination Fee for NIELIT O/A/B level courses to SC/ST on successful completion of Theory Papers for relevant Level.

A NIELIT **Scholarship Scheme** was introduced for SC/ST/Physically Handicapped and female candidates w.e.f. January 2003 Examinations. Candidates pursuing full time NIELIT informal Courses will be offered Scholarship ranging from ₹ 4,000/- to ₹ 15,000/- depending upon the level of course.

The Centre grants free course fee to ST/SC candidates for all courses (AICTE approved and NSQF aligned) as per directives of MoE&IT, Govt. of India from time to time.

15. EXTRACURRICULAR ACTIVITIES

The students of the Centre participate in the various types of sports. Out of them Cricket, Volleyball, Badminton, Carom and Chess are quite popular. The students of the Centre also participate in Inter College Sports events under Manipur University as well as All India Inter university Sports events representing M.U. Many of the students of this Centre also bagged medals in these State Level as well as National Level Sports events. The Centre also organized Inter College Sports Tournaments in its Campus under the aegis of M.U. Not only in sports



Figure 2: Students during the sports meet event

events, students of this Centre also participated in much other State Level competition like IT Talent Search, Debating Competition, Essay Writing Competition, etc. and bagged prizes. In fact, students of this Centre are showing excellent performance in many other fields also. In addition to these, cultural programs are performed jointly by the students and staff.

16. CORPORATE SOCIAL RESPONSIBILITIES

16.1 Digital Locker

Digital Locker is one of the key initiatives under the Digital India vision launched by Government of India in February 2015, which is aimed at eliminating the usage of physical documents. Digital Locker will allow various agencies to push the documents into the Digital Locker of citizens mapped to their Aadhaar Number. It also allows citizens to upload their own electronic documents with or without digitally signing them using the e-sign facility allowing them to store all such documents for posterity. The storage space (maximum 1GB) is linked to the Aadhaar number of the user.

The Digital Locker system has the following advantages:

1. Print anytime from anywhere – All electronic documents will be in a printable, enabling user to print from anywhere. Also, in case of disasters, non-availability of documents, it is easily accessible by user even when the documents are lost
2. Convenience – No more long queues or procedures to get the documents.
3. Free of cost – Digital Locker facility is provided to Indian Citizen free of charge and will enable its use by lower strata of society.
4. Shareable – residents can easily share the documents with other agencies/departments without having to share photocopies, scan copies, document uploads, etc. Sharing can easily be done even on feature phones even via SMS and text based systems.
5. Verifiable most importantly, government documents and certificates issued can be verified online, eliminating the use of fake documents/certificates.
6. Secure - Only the owner has the right to see and share the documents as per their own requirement and convenience.

16.2 National Digital Literacy Mission (NDLM)

National Digital Literacy Mission (NDLM) Scheme has been formulated to impart IT training to 52.5 lakh persons, including Anganwadi and ASHA workers and authorised ration dealers in all the States/UTs across the country so that the non-IT literate citizens are trained to become IT literate so as to enable them to actively and effectively participate in the democratic and developmental process and also enhance their livelihood.

NDLM is a program of Deptt. of Electronics and Information Technology, Govt. of India under the Prime Minister's vision of "Digital India" which aims to make at least one member of every household digital literate/certified by the year 2020. The following benefits may get from NDLM

- Government recognition: Every person who passes the digital literacy examination is issued a certificate of recognition directly by the Government of India.

This certificate adds to the persons' social recognition – especially for women and children.

- Ability to seek information online: The NDLM curriculum has been specially designed keeping in mind the Indian context. People are made aware how to search for information – whether it is with respect to JOB , government services, online banking or any other information relevant to them.
- Knowledge of engaging with Government: National Digital Literacy Mission curriculum also makes people aware of how to engage with government departments online – e.g. filing Right to information requests, filing their Permanent Account Number (PAN) card and Passport applications and many more.
- Awareness of services available online: People are also made aware of different services available online – e-commerce, online transaction systems and COMMUNICATION channels like social media, voice chatting.

16.3 Jeevan Pramaan

Jeevan Pramaan is Aadhar based computer generated biometric enabled Digital Life Certificate for Pensioners. It was launched by Prime Minister Narendra Modi on 10 November 2014. Jeevan Praman has been developed by the Department of Electronics and IT, Government of India

It is expected to benefit over a crore pensioners. Jeevan Pramaan will do away with the requirement of a pensioner having to submit a physical Life Certificate in November each year, in order to ensure continuity of pension being credited into their account.

A successful authentication generates the Digital Life Certificate which gets stored in the Life Certificate Repository. The Pension Disbursing Agencies can access the certificate on-line.

Pensioners of Central Government, State Government or any other Government organization can take benefit of this facility. Pensioner need not to appear before the pension disbursing authority. Digitized system enables the pensioner to submit the life certificate from the nearest location to his residence. Pensioner can generate digital life certificate from home computer using his/her biometric fingerprint scanner.

16.4 Digital Financial Services

The Digital India programme is a flagship programme of the Government of India with a vision to transform India into a digitally empowered society and knowledge economy. “Faceless, Paperless, Cashless” is one of professed role of Digital India.

Cashless transactions are affected in NIELIT Imphal and its Extension Centres. NIELIT Imphal organizes various awareness programmes in the state of Manipur about Digital Financial Services.

17. ACADEMIC CURRICULUM FOR FORMAL COURSES AFFILIATED TO MANIPUR UNIVERSITY

17.1 Academic Curriculum for Diploma in Electronics and Communication Engineering (DECE)

The objective of DECE is to impart training in Electronics with special emphasis on

- Design and Fabrication of Printed Circuit Boards (PCB)
- Industrial Product Design
- Repairing of Electronic Equipment
- Installation and Maintenance of Electronic, Electrical and Electro-Mechanical System
- Problem solving using computers.

Course Recognition: The course is approved by the All India Council for Technical Education and affiliated to Manipur University. After completion of the course, students can become either self-employed professionals in Electronics or allied Industries or work as Junior Engineers, Supervisors or Technical Assistants in the field of production, Test, Quality control, Maintenance, Servicing and installation works. They can also continue studies by getting themselves admitted in 2nd year of corresponding B.E/ B.Tech programmes of Engineering Colleges.

Eligibility for DECE: A candidate seeking admission to Diploma in Electronics and Communication Engineering (DECE) must

- have passed (in single sitting without any grace mark) in the HSLC Examination (class-X) conducted by BSE, Manipur or any other examination recognized by the Manipur University as equivalent and
- be within the age group of 15-22 years on the 1st of July of the year of admission. Upper age limit is relaxable by 3 years for SC/ST/Physically handicapped candidates.

Admission Test: The selection for the admission to DECE is mainly on the basis of a written test of objective type based on class-X standard/syllabus in the subjects like Mathematics and Science.

Course Fee for DECE:

- 1st Installment: Rs. 34,000/- (to be paid during admission)
2nd Installment: Rs. 32,000/- (to be paid before start of 3rd Semester)
3rd Installment: Rs. 33,000/- (to be paid before start of 5th Semester)

Course Structure of DECE: The course is of 6-semester duration. The odd semesters starts on the 1st working day of July and even semesters starts on 1st working day of January every year. The medium of instruction is English. Semester wise subject and corresponding paper codes, Marks & Credits are as follows:

SI No	Code	Paper Name	Evaluation Scheme						Total Marks	Credit
			Theory			Practical				
			End Exam	Internal Assessment		End Exam	Internal Assessment			
				Class Test	Assignment		Sessional	Viva-voce		
Semester -I										
1	HU-1-101/ECE	Communication in English-I	70	15	15	0	0	0	100	1
2	HU-1-103/ECE	Applied Mathematics-I	70	15	15	0	0	0	100	2
3	HU-1-105/ECE	Engineering Science - I	70	15	15	25	25	0	150	3
4	ME/CE-1-201/ECE	Engineering Drawing – I	0	0	0	50	50	0	100	4
5	WS-1-203/ECE	Workshop Practice - I	0	0	0	0	25	25	50	5
6	EE-1-205/ECE	Electrical Circuits	70	15	15	0	0	0	100	6
TOTAL			280	60	60	75	100	25	600	21
Semester -II										
1	HU-2-102/ECE	Communication in English – II	70	15	15	0	0	0	100	3
2	HU-2-104/ECE	Applied Mathematics – II	70	15	15	0	0	0	100	3
3	HU-2-106/ECE	Engineering Science – II	70	15	15	25	25	0	150	5
4	ME/CE-2-202/ECE	Engineering Drawing – II	0	0	0	50	50	0	100	3
5	WS-2-204/ECE	Workshop Practice – II	0	0	0	0	25	25	50	2
6	CSE-2-206/ECE	Introduction to Computer Programming & C Program- ming Laboratory	70	15	15	0	25	25	150	5
TOTAL			280	60	60	75	125	50	650	21

Semester-III										
1	HU-3-301/302/ ECE	Engg. Economics & Accountancy / Elements of Management & Industrial Legislation	70	15	15	0	0	0	100	3
2	ECE-3-401/ECE	Electronic Devices & Circuits	70	15	15	0	25	25	150	4
3	ECE-3-402/ECE	Digital Fundamentals	70	15	15	0	25	25	150	4
4	ECE-3-403/ECE	Principles of Communication Engineering	70	15	15	0	25	25	150	4
5	ECE-3-406/ECE	Electronics Drawing	0	0	0	100	50	50	200	4
6	ECE-3-409/ECE	Introduction to PLC	0	0	0	0	25	25	50	1
TOTAL			280	60	60	100	150	150	800	20
Semester-IV										
1	HU/CE-4- 303/305/306/ECE	EDP/ Material Science / Environmental Education	70	15	15	0	0	0	100	3
2	ECE-4-506/ECE	Electronic Instrument & Measurement	70	15	15	0	25	25	150	4
3	ECE-4-408/ECE	Personal Computer System Technology	70	15	15	0	25	25	150	4
4	ECE-4-405/ECE	Trouble shooting & Maintenance of Electronics Equipment	35	5	10	0	25	25	100	4
5	ECE-4-507/ECE	Telecommunication System	70	15	15	0	25	25	150	4
6	EE-4-404/ECE	Industrial Electronics & Control	70	15	15	0	25	25	150	4
TOTAL			385	80	85	0	125	125	800	23
Semester-V										
1	CSE-5-505/ECE	Microprocessor & its Appli- cations	70	15	15	0	25	25	150	5
2	ECE-5-501/ECE	Hardware Production Techniques	0	0	0	50	50	50	150	3
3	ECE-5-508/ECE	Advanced Communication Systems	70	15	15	0	25	25	150	4
4	ECE-5-509/ECE	Television Engineering	70	15	15	0	25	25	150	4
5	CSE-5-504/ECE	C Programming with LINUX	70	15	15	0	25	25	150	5

6	ECE-5-503/ECE	Display Systems	70	15	15	0	0	0	100	3
TOTAL			350	75	75	50	150	150	850	24
Semester-VI										
1	ECE-6-407/ECE	Fibre Optic Communication	70	15	15	0	25	25	150	4
2	ECE-6-510/ECE	Microwave Techniques	70	15	15	0	0	0	100	3
3	ECE-6-502/ECE	Technical Seminar & Industrial Tour	0	0	0	0	100	50	150	3
4	ECE-6-511/ECE	Project	0	0	0	0	50	50	100	2
5	ECE-6-601/602/603/ECE	Elective – I	70	15	15	0	0	0	100	3
6		Elective – II	70	15	15	0	0	0	100	3
TOTAL			280	60	60	0	175	125	700	18
Elective Papers (Any two to be chosen)										
1	ECE-6- 601/ECE	Cellular Technology	70	15	15	-	-	-	100	3
2	ECE-6- 602/ECE	Wireless Servicing Technique	70	15	15	-	-	-	100	3
3	ECE-6- 603/ECE	Entertainment Electronics	70	15	15	-	-	-	100	3
TOTAL OF TWO COURSES			140	30	30	-	-		200	6

Change of Stream of DECE: Any student who was registered in the Term-I course may be given the chance to change the trade/stream at either of the following two stages:

- After the last date of admission and just before the beginning of the academic session, provided there is a vacancy in the desired trade.
- If the student earns credit in all the five (05) courses with end-term examination and has no backlog courses according to the availability of seat (s) in the desired trade / stream and fulfillment of the pre-requisite condition.

No change of trade shall be entertained in any other circumstances.

Project work of DECE: During the 6th semester each DECE student has to take up a project under the guidance of the faculty and should build a working prototype as partial fulfillment of the requirement for the award of Diploma.

Examination, Evaluation and Promotion Rules: The Internal Assessment marks for each theory paper shall be based on Class-Test (15) and Assignment (15) with a total

mark of 30 each. The Internal Assessment mark for practical papers will be distributed in the following ratios and then converted to the nearest whole number such that the total mark is equal to the allotted full-mark of 25 or 50. If a student fails to secure 50% marks in the internal assessment, the concerned student shall not be allowed to appear in the end-term examination and he/she shall repeat the subject including attendance and internal assessment by registering afresh.

Eligibility for passing & promotion with Backlog Courses:

a) Eligibility condition for promotion:

- If a student is to be promoted from Year-I to Year-II, the student must earn a credit in at least one paper with end-term examination of year-I.
- Similarly, a student of Year-II student must earn a credit in at least one course with end-term examination of Year-II and the total number of backlog courses in Year-I & II for re-registration/registration afresh must not exceed seven for promotion/continuation to Year-III and so on.

b) Permissible number of backlog or 'kept the term' courses:

- A student can register in any term for a maximum seven number courses, out of which, the courses having end-term examination shall not exceed six
- A student not having any course for re-registration would have to register in any term, except the last term for minimum three courses having end-term exams.
- According to MPECS Guideline, maximum number of courses having end-term examination registered and re-registered by a student in any term shall not exceed ten.

c) Maximum number of attempts to earn a credit in at least one course:

- Every registered student of Diploma Engineering program in the institution shall be given two (02) consecutive chance to earn a credit in at least one (01) course with end-term examination.
- If anyone could not earn credit in the requisite one (01) course with end-term examination even after two consecutive attempts, the student shall be automatically prohibited from further registration/admission into the Term-I for the third consecutive term.
- However, if such a student still desires to seek admission, he/she shall have to face fresh entrance test along with other candidates other candidates to secure another chance for admission into the diploma program.
- According to MPECS Guideline, a student may be allowed to discontinue his/her studies after attending at least two (02) terms and he/she must rejoin within two (02) years from the date of discontinuation to be entitled for transfer of all credits accumulated by him/her. A student may avail of this flexibility of discontinuation the study maximum twice.

Grading System of DECE: A student would be awarded classes on the basis of CPA (Credit Point Average), computed for the whole diploma program according to MPEC Guidelines as below:

CPA	Class
75% and above	First Class with Distinction
60% and above and less than 75%	First Class
Less than 60%	Second Class

The method of calculating the CPA of a student is as:

CPA (%) of a student for diploma program equals to:-

$$\frac{\sum (\% \text{ of marks obtained in a course} \times \text{No. of credits for the course})}{\sum \text{No. of credits in all the courses studied}}$$

17.2 Academic Curriculum for Diploma in Computer Science & Engineering (DECE)

The Objective is to impart competency in Computer Science & Engineering with special emphasis on

- Good knowledge of the Computer architecture.
- Familiarity with various circuit boards and chips used in computers.
- Knowledge of system software and programming.
- Computer language and applications.

The National Policy on Education 1986 recommends that “Technological and Management Education Programs including education in Polytechnic, will also be on a flexible, modular pattern based on credits with provision for multi-point entry. A strong guidance and counseling service will be provided”. Multi-Point Entry & Credit System (MPECS) is the mode for introducing the desired flexibility in the curriculum of diploma program. Under the World Bank assisted Tech Ed. Project I, II & III, NITTTRs have facilitated successful introduction of MPECS in the diploma programs offered by various States in the country, including most of the states in the North Eastern Region.

Eligibility for DCSE: A candidate seeking admission to Diploma in Electronics and Communication Engineering (DECE) must

- have passed (in single sitting without any grace mark) in the HSLC Examination (class-X) conducted by BSE, Manipur or any other examination recognized by the Manipur University as equivalent and

- b. be within the age group of 15-22 years on the 1st of July of the year of admission.
Upper age limit is relaxable by 3 years for SC/ST/Physically handicapped candidates.

Admission Test: The selection for the admission to DECE is mainly on the basis of a written test of objective type based on class-X standard/syllabus in the subjects like Mathematics and Science.

Course Fee DCSE:

1st Installment: Rs. 34,000/- (to be paid during admission)

2nd Installment: Rs. 32,000/- (to be paid before start of 3rd Semester)

3rd Installment: Rs. 33,000/- (to be paid before start of 5th Semester)

Course Structure of DCSE: The course is of 6-semester duration. The odd semesters starts on the 1st working day of July and even semesters starts on 1st working day of January every year. The medium of instruction is English. Semester wise subject and corresponding paper codes, Marks & Credits are as follows:

SI No	Code	Paper Name	Evaluation Scheme						Total Marks	Credit
			Theory			Practical				
			Internal Assessment			End Exam	Internal Assessment			
			End Exam	Class Test	Assignment		Sessional	Viva-voce		
Semester -I										
1	HU-1-101/ CSE	Communication in English-I	70	15	15	0	0	0	100	3
2	HU-1-103/ CSE	Applied Mathematics-I	70	15	15	0	0	0	100	3
3	HU-1-105/ CSE	Engineering Science - I	70	15	15	25	25	0	150	5
4	ME/CE-1- 201/CSE	Engineering Draw- ing – I	0	0	0	50	50	0	100	3
5	WS-1-203/ CSE	Workshop Practice - I	0	0	0	0	25	25	50	2
6	EE-1-205/ CSE	Electrical Circuits	70	15	15	0	0	0	100	3
TOTAL			280	60	60	75	100	25	600	19
Semester -II										
1	HU-2-102/ CSE	Communication in English – II	70	15	15	0	0	0	100	3

2	HU-2-104/ CSE	Applied Mathematics – II	70	15	15	0	0	0	100	3
3	HU-2-106/ CSE	Engineering Science – II	70	15	15	25	25	0	150	5
4	ME/CE-2-202/CSE	Engineering Drawing – II	0	0	0	50	50	0	100	3
5	WS-2-204/ CSE	Workshop Practice – II	0	0	0	0	25	25	50	2
6	CSE-2-206/ CSE	Introduction to Computer Programming & C Programming Laboratory	70	15	15	0	25	25	150	5
TOTAL			280	60	60	75	125	50	650	21

Semester-III

1	CSE-301	Mathematics- 3	70	15	15	0	0	0	100	4
2	CSE-302	Computer Architecture and Organization	70	15	15	0	0	0	100	3
3	CSE-303	Data Structure using C	70	15	15	0	25	25	150	5
4	CSE-304	Microprocessor & Interfacing.	70	15	15	0	25	25	150	4
5	CSE-305	Application of .Net Technology	70	15	15	50	25	25	200	5
TOTAL			350	75	75	50	75	75	700	21

Semester-IV

1	CSE-401	PC Utilities & Multimedia Lab	70	15	15	0	25	25	150	3
2	CSE-402	System Software	70	15	15	0	0	0	100	4
3	CSE-403	DBMS & Lab	70	15	15	50	25	25	200	5
4	CSE-404	Data Communication and Networking	70	15	15	0	25	25	150	5
5	CSE-405	Operating Systems	70	15	15	0	0	0	100	4
TOTAL			350	75	75	50	75	75	700	21

Semester-V

1	CSE-501	Internet & Web Technology	70	15	15	0	25	25	150	5
2	CSE-502	Building Web Application Using ASP.Net	70	15	15	50	25	25	200	5

3	CSE-503	System Software, Diagnostics & Debugging Tools	70	15	15	0	25	25	150	4
4	CSE-504	Elective- I (one from the following)								
	CSE-504.1	Parallel & Distributed Computing	70	15	15	0	0	0	100	3
	CSE-504.2	Soft Computing								
	CSE-504.3	Computer Graphics								
5	CSE-505	Project	0	0	0	50	25	25	100	4
TOTAL			280	60	60	100	100	100	700	21
Semester-VI										
1	CSE-601	Industrial Management	70	15	15	0	0	0	100	3
2	CSE-602	Computer Systems, Peripherals and Troubleshooting	70	15	15	0	25	25	150	5
3	CSE-603	Software Engineering	70	15	15	0	0	0	100	3
4	CSE-604	Elective- II (one from the following)								
	CSE-604.1	Introduction to Object Oriented Programming and Visual Basic	70	15	15	50	25	25	200	4
	CSE-604.2	Object Oriented Programming and C++								
	CSE-604.3	Programming in JAVA								
5	CSE-605	Project	0	0	0	100	50	50	200	7
TOTAL			280	60	60	150	100	100	750	22

Change of Stream for DCSE: Any student who was registered in the Term-I course may be given the chance to change the trade / stream at either of the following two stages:

- After the last date of admission and just before the beginning of the academic session, provided there is a vacancy in the desired trade.
- If the student earns credit in all the five (05) courses with end-term examination and has no backlog courses according to the availability of seat (s) in the desired trade / stream and fulfillment of the pre-requisite condition.

No change of trade shall be entertained in any other circumstances.

Project work: During the 6th semester each DCSE student has to take up a project under the guidance of the faculty members and should build a working prototype as partial fulfillment of the requirement for the award of Diploma.

Examination, Evaluation and Promotion Rules:

-Same as DECE- (Please refer page No.42)

Eligibility for passing & promotion with Backlog Courses:

-Same as DECE- (Please refer page No.42)

Grading System of DCSE: A student would be awarded classes on the basis of CPA (Credit Point Average), computed for the whole diploma program according to MPEC Guidelines as below:

CPA	Class
75% and above	First Class with Distinction
60% and above and less than 75%	First Class
Less than 60%	Second Class

The method of calculating the CPA of a student is as:

CPA (%) of a student for diploma program equals to:-

$\sum (\% \text{ of marks obtained in a course} \times \text{No. of credits for the course})$

$\sum \text{No. of credits in all the courses studied}$

17.3 Academic Curriculum for Post Graduate Diploma in Computer Application (PGDCA)

The objective of the course is to impart training to the non-IT graduate qualified youths to present overview of IT tools used in day to day use of computers and to provide knowledge on various hardware and software components of computer, operating system, various packages used for different applications, database concept & operations and various issues related to IT and application of IT. The course is of one year duration comprising 2- semesters leading to the Post Graduate Diploma in Computer Application (PGDCA)

Course Recognition: This course is designed, prepared and approved by Manipur University. The course is a One Years Degree Course awarded by Manipur University.

Eligibility for PGDCA: Any candidate who passed three year degree course in any discipline or any such other equivalent course of Manipur University or from any other University may be admitted to the PGDCA 1st Semester as a regular student.

Admission Test: The admission test will be of 2-hours duration based on general aptitude test of graduate standard.

Course Structure: The total marks of the course shall be 1200, each semester being 600 marks. In each Semester there shall be 5 (five) theory papers and one practical in 1st Semester and one major project in 2nd semester. The papers shall be of equal weightage of 100 marks each and practical/project is also of 100 marks each.

1 st Semester		
Code	Paper Title	Hours assigned
101	Computer Graphics & Multimedia	35
102	Business Systems	35
103	Computer Organization and System Software	35
104	Programming in C	35
105	System Analysis and Design	35
106	Practical	150

2 nd Semester		
107	Data Communication and Networks	35
108	Programming in VB	35
109	RDBMS concepts using SQL Server	35
110	Object Oriented Programming Using C++	35
111	Internet Programming Tools	35
112	Practical	150

Course Fee PGDCA for 2019-20: Rs. 25,000/-

Examination, Evaluation and Promotion Rules: Each candidate must attend at least 75 per cent of the tutorial/seminar classes held. A candidate failed to attend the prescribed minimum number of the tutorial/seminar classes shall not be allowed to appear at the respective examination at the end of the course except on the special recommendation from the Head of the Institute.

Each theory paper will be of 100 marks which is divided as below:

<i>Particulars</i>	<i>University Exam</i>	<i>Internal Assessment</i>	<i>Total</i>
Full Mark	75	25	100
Pass Mark	20	10	30
Exam Duration	3 hrs.	-	-

Assessment of Practical Paper of 100 marks will be carried out on the basis – Practical (80%) and Viva Voce (20%)

In order to pass the PGDCA, a candidate must pass the PGDCA 1st/2nd Semester Examinations and he/she must obtain at least 40% marks in the aggregate and at least 30% marks in each paper of the Semester Examination with at least 45% marks of the combined aggregate in the subjects for PGDCA 1st & 2nd Semester examinations.

The results of the successful candidates in the PGDCA 1st & 2nd Semester examinations shall be announced in a single pass list without any class or distinction.

The classification of the Final results shall be declared on the combined assessment of all the Semester Examinations.

A student who has prosecuted a regular course of studies for not less than 6 month in first Semester classes may be admitted to the 2nd Semester Examination as a regular candidate, provided that he/she has attended at least 75 per cent of the lectures delivered in each paper.

RULES FOR ADMISSION TO UNSUCCESSFUL AND ABSENTEE CANDIDATES:

- (a) A candidate for the PGDCA Semester Examination must pass the 2nd Semester Examination within a period of one year from the date of passing the 1st Semester Examination.
- (b) Notwithstanding anything contained above, a candidate for the PGDCA must pass the 2nd Semester Examination within a period of 2 consecutive years from the date of admission to the PGDCA 1st Semester.

RULES AND REGULATIONS FOR BACK PAPERS AND IMPROVEMENT:

- (a) Candidates who fail in the semester examination in not more than two papers may be given back paper upto a maximum of two failed papers in the next respective semester examination once only.
- (b) Candidates who fail to secure 40% mark in aggregate in a semester examination OR who fail to secure 45% marks in the combined aggregate of semester I and II taken together may be given back paper upto a maximum of two papers of candidate's choice in the next respective examination once only.

Award of Certificate & Grade System of PGDCA: A student would be awarded classes on the basis of percentage, computed for the whole PGDCA program: The results of the successful candidate for the PGDCA examination shall be classified as indicated below:

- (a) A candidate obtaining 60% a minimum of 60% of the aggregate marks in all the Semester Examination taken together shall be placed in the First Class.
- (b) A candidate obtaining 45% or above but less than 60% of the aggregate marks in all the Semester Examination taken together shall be placed in the Second Class.

17.4 Academic Curriculum for Bachelor of Computer Application (BCA)

The Objective of the course is to impart knowledge and training to the candidates to become an Information Technology Graduate. The BCA graduates are suitable for employment as Programmer, System Analyst and Administrator or Faculty in High and Higher Secondary Schools for Computer subjects. Followings are the job position prospects of the BCA qualifiers:

- Computer Programmer
- System Analyst
- System Programmer/Administrator
- IT Project Manager
- Web Programmer/ developer
- Network Administrator
- Database Designer and Manager, etc.

Recognition of BCA: This course is designed, prepared and approved by Manipur University. The course is a Three Years Degree Course awarded by Manipur University.

Eligibility for BCA: A student who has passed the 10+2 (Science with Mathematics or Computer Science) Examination of CHSE. Manipur or equivalent examination recognized by Manipur University offering the relevant subject / subjects.

Admission Process of BCA: Admission test will be based on XII standard comprising standard Mathematics, English and General Aptitude. Test will be held only at Imphal Centre.

Course Structure of BCA: The course is 3-years university degree course. There are six (6) semesters. The total marks of the course shall be 3600, each semester being 600 marks. The papers shall be of equal weightage of 100 marks each except the major project in the 6th semester which shall be of 200 marks. There shall be 25 marks of Internal Assessment in case of theory papers and 50 marks in case of practical papers. There shall be no Internal Assessment marks in case of project papers. Semester wise subjects are placed at next page:

Code No.	Paper	Internal Assessment Mark	University Exam	Total
Semester-I				
BCA 101	Mathematics – I	25	75	100
BCA 102	Business Communication	25	75	100
BCA 103	Programming with C	25	75	100
BCA 104	Fundamentals of Information Technology	25	75	100
BCA 105	Basics of Physics	25	75	100
BCA 106	Practical – I	50	50	100
Total of Semester-I		195	425	600
Semester-II				
BCA 201	Mathematics – II	25	75	100
BCA 202	Business Organization & Management	25	75	100
BCA 203	Digital Electronics	25	75	100
BCA 204	Data Structures using C	25	75	100
BCA 205	Database Management Systems	25	75	100

BCA 206	Practical – II	50	50	100
Total of Semester-II		195	425	600
Semester-III				
BCA 301	Mathematics – III	25	75	100
BCA 302	Computer Architecture	25	75	100
BCA 303	Front End Design Tools	25	75	100
BCA 304	Financial Accounting	25	75	100
BCA 305	Object Oriented Programming	25	75	100
BCA 306	Practical – III	50	50	100
Total of Semester-III		195	425	600
Semester-IV				
BCA 401	Mathematics – IV	25	75	100
BCA 402	Software Engineering	25	75	100
BCA 403	Java Programming & Website Design	25	75	100
BCA 404	Operating Systems	25	75	100
BCA 405	Business Economics	25	75	100
BCA 406	Practical – IV	50	50	100
Total of Semester-IV		195	425	600
Semester-V				
BCA 501	Computer Networks	25	75	100
BCA 502	.NET Programming	25	75	100
BCA 503	Linux Environment	25	75	100
BCA 507	Practical – V	50	50	100
BCA 508	Minor Project	0	100	100
Electives (Select any one)				
BCA 504	E-Commerce	25	75	100
BCA 505	Design and Analysis of Algorithms	25	75	100
BCA 506	Computer Network Security	25	75	100
Total of Semester-V		150	450	600
Semester-VI				
BCA 601	Management Information Systems	25	75	100
BCA 602	Computer Graphics & Multimedia Applications	25	75	100
BCA 607	Practical – VI	50	50	100
BCA 508	Major Project	0	200	200
Electives (Select any one)				

BCA 603	Mobile Computing	25	75	100
BCA 604	Internet Programming	25	75	100
BCA 605	Knowledge Management & New Economy	25	75	100
BCA 606	Artificial Intelligence	25	75	100
Total		125	475	600

Course Fee BCA for 2019-20:

1st Installment: Rs. 34,000/- (to be paid during admission)

2nd Installment: Rs. 32,000/- (to be paid before start of 3rd Semester)

3rd Installment: Rs. 33,000/- (to be paid before start of 5th Semester)

Examination Pattern of BCA:

- Numerical marking system of evaluation shall be adopted. Each paper (theory or practical) shall carry full marks of 100 out of which the Internal Assessment marks shall be 25 in case of theory papers and 50 marks in case of practical papers. There shall be no Internal Assessment marks in case of project papers.
- For each theory and practical paper there shall be End Semester Examination carrying 75 in case of theory papers and 50 marks in case of practical papers.
- End Semester Examination for theory paper carrying 75 marks shall be of 3 hours duration and that of practical papers of 50 marks shall be of 4 hours duration.

Eligibility to appear in the BCA Examination:

- A student who has studied a regular course of study in an affiliated Institute / College may be admitted to the End Semester Examination provided the student has attended not less than 75% of the lectures delivered including practical.
- A student who has enrolled himself / herself in more than one college / institute simultaneously shall not be admitted into the End Semester Examinations.
- The student should produce a certificate from the Head of the institute that he / she has completed the course for the Practical / Laboratory papers of the Examination.
- The student should pass the Internal Assessment of the paper(s) to which he / she has to appear the final examination.

Promotion & Course Completion criteria:

a) Promotion:

Only those students who have appeared in the First / Second / Third / Fourth / Fifth Semester Examinations of Manipur University shall be admitted to the Second / Third / Fourth / Fifth Semester respectively on the following conditions:

- i. A student who has passed all the semester examinations will be promoted to the next higher semester.
- ii. In no case the student will be promoted to next higher semester if he / she has more than four failed papers at a time.

b) Course Completion:

A student of the Bachelor of Computer Application (BCA) Course should complete the course within a continuous span of ten semesters from his / her initial admission i.e., 5 consecutive academic years.

Criteria for Pass and Award of Class:

- i. To pass a theory paper the candidate has to secure at least 10 marks out of 25 marks (40%) in the internal assessment and 25 marks out of 75 marks (40%) in the end semester examination.
- ii. To pass a practical paper the candidate has to secure 50% marks exclusively in the internal assessment as well as in the end semester examination.
- iii. To pass a minor project or major project the candidate has to secure at least 50% of the marks allotted as per the provision given in the syllabus.
- iv. To pass the Bachelor of Computer Application (BCA) Examination the candidate has to pass all the papers prescribed and should secure 45% or above marks in the aggregate.
 - A candidate who has passed all the papers in all the End Semester Examinations and securing 45% or above marks but less than 60% marks in the aggregate shall be declared to have passed the Bachelor of Computer Application (BCA) Examination in the Second Division.
 - A candidate who has passed all the papers in all the End Semester Examinations securing 60% or above marks in the aggregate shall be declared to have passed the Bachelor of Computer Application (BCA) Examination in the First Division.
 - A candidate who has passed all the 6(six) Semester Examinations in regular attempt securing 75% or above marks in aggregate shall be declared to have passed the Bachelor of Computer Application (BCA) Examination with Distinction.
 - If a candidate fails at the end semester examinations, the marks obtained by him/her in the internal assessment shall be retained.
 - After the submission of the internal assessment marks to the University, any request for change of the internal assessment shall not be entertained under any circumstances.

Admission into the Degree and Award of Certificate: A student who has passed the Bachelor of Computer Application (BCA) Examination by satisfying all the criteria listed in

“Promotion & Course Completion criteria” above and above and comes under the provision of *“Criteria for Pass and Award of Class”* above shall be awarded the degree of Bachelor of Computer Application (BCA) to the student in the year in which he / she passed all the papers of all semester examinations.

Admission of the unsuccessful and absentee candidates: A student who was admitted into a semester examination, but could not pass / could not be promoted to the next higher semester may be permitted to appear at the next available regular semester examination as a casual student on payment of necessary prescribed fee.

Authority

- a) If any ambiguity arises in the interpretation of the Articles and Clauses laid down above the decision of the Vice-Chancellor, Manipur University shall be the final.
- b) In case of any matter not covered by the above provisions of this Ordinance the Vice-Chancellor, Manipur University will have the authority to decide upon the matter in a manner consistent with the provision of the Ordinance.

17.5 Academic Curriculum for Master of Science in Information Technology (MSc. IT)

The overall design logic/objective of the **Master of Science in Information Technology (MSc. IT)** syllabus is to capture and to encompass the following targeted aspects:

- i. Providing a balanced and cohesive environment of theory and practical. Every semester has a practical paper covering selected theory papers in the semester.
- ii. Offering a career oriented platform in software development. The course has subjects to prosper skill and creativity in the field of software development specially web, android and Java applications.
- iii. Setting the main foundation on core Computer Science subjects.
- iv. Incorporating advanced and emerging trends in Computer Science and Technology, such as Artificial Neural Network, Machine Learning, Pattern Recognition, Cryptography and Network Security.
- v. Thriving MSc.IT as a brother of none of the degrees of similar characters. The syllabus attempts to provide a special flavor of its own.

Recognition: This course is affiliated to Manipur University. The course is a Two Years (4-semesters) Master Degree Course awarded by Manipur University.

Eligibility for MSc.IT: A candidate who has qualified any one of the following degree (i, ii) with at least 50% marks (45% for reserved) of this University or any other university recognized as equivalent thereto shall be admitted to the first year of M.Sc.(Information Technology) Course.

OR

Bachelor's degree in any discipline from a recognized university with Mathematics/ Computer Science/Statistics as one of the subjects at 10+2 level or graduation.

OR

BCA or BSc in IT / Computer Science / Physics / Mathematics/ Electronics Physics / or any relevant Computer related recognized subject as one of the subject

Admission Process of MSc. IT: The admission test will be of 2-hours duration and based on Mathematics of XII standard and general aptitude of graduate standard.

Course Structure of MSc. IT: There are 21 modules and 01 Project to be covered in 02 years (04 Semesters). Semester-wise papers are listed below

Code No.	Paper	Internal Assessment Mark	University Exam	Total
Semester-I				
MSCIT-101	Discrete Structure	25	75	100
MSCIT-102	Programming and Problem Solving in C	25	75	100
MSCIT-103	Digital Electronics	25	75	100
MSCIT-104	Principles of Management	25	75	100
MSCIT-105	Introduction to Unix	25	75	100
MSCIT-106	Programming Lab-1	50	50	100
Total of Semester-I		195	425	600
Semester-II				
MSCIT-201	Database Management System	25	75	100
MSCIT-202	Computer Organization and Architecture	25	75	100
MSCIT-203	Web Technology and Applications	25	75	100
MSCIT-204	Data Structure Using C	25	75	100
MSCIT-205	Computer Network	25	75	100
MSCIT-206	Programming Lab-2	50	50	100
Total of Semester-II		195	425	600
Semester-III				
MSCIT-301	Operating Systems	25	75	100
MSCIT-302	Software Engineering	25	75	100
MSCIT-303	Design and Analysis of Computer Algorithms	25	75	100
MSCIT-304	Artificial Intelligence	25	75	100

MSCIT-305	Elective-I (one from the following)			
MSCIT-305:E1.1	Java and Android Programming	25	75	100
MSCIT-305:E1.2	C# and .Net			
MSCIT-306	Programming Lab-3	50	50	100
Total of Semester-III		195	425	600
Semester-IV				
MSCIT-401	Data Warehousing and Data Mining	25	75	100
MSCIT - 402	Elective II (one from the following)			
MSCIT-402:E2.1	Artificial Neural Networks	25	75	100
MSCIT-402:E2.2	Computer Graphics			
MSCIT-402:E2.3	Fuzzy Set Theory and Applications			
MSCIT-403	Elective II (one from the following)			
MSCIT-403:E3.1	Machine Learning	25	75	100
MSCIT-403:E3.2	Cryptography and Network Security Pat-			
MSCIT-403:E3.3	tern Recognition			
MSCIT-404	Project	100	200	300
Total of Semester-IV		175	425	600

Course Fee of MSc. IT for the year 2019-20:

1st Installment: Rs. 38,000/- (to be paid during admission)

2nd Installment: Rs. 36,000/- (to be paid before start of 3rd Semester)

Mode of Examination of MSc. IT Course as per Manipur University Rules:

- Each theory paper in the Semester Examination shall be of three hours duration and shall carry 75 marks.
- Each practical paper in the Semester Examination shall be of four hours duration to be performed in one day and shall carry 75 marks.
- Internal assessment of each paper (both theory and practical) shall be based on such works as assignments / practical / seminars / unit tests / minor projects, etc.
- Regarding major project in the Fourth Semester, each candidate shall be assigned by the Head of Department to an organization for project work for a period to be specified (not less than 5 months) in advance as may be necessary in each case under the supervision (internal) of a teacher of the Department. The organization will also assign a supervision (external) who will guide the candidate in carrying out the project. The candidate shall be required to maintain his project diary of work in the organization.
- Internal assessment marks awarded should be submitted by the course-in-charge to the University before commencement of the Semester Examination.

Minimum pass marks and classification of Successful Candidates for MSc. IT course:

Pass marks for the internal assessment in case of theory paper shall be 40%. If a candidate fails to pass in the internal assessment he/she will not be permitted to appear at the Semester Examination (University Exam) of that paper and he/she will be considered to have scored zero marks in the paper. If a candidate fails to pass in the internal assessment, he/she will be required to complete all the requirements of the internal assessment again, and secure not less than 40% in the internal assessment so as to become eligible to appear in the corresponding Semester Examination.

The same procedure shall be followed in the case of practical papers except that the pass marks for the internal assessment in case of practical will be 50%.

Passing of First Year:

- 1(a) The minimum marks for passing the First Year (First and Second Semesters taken together) shall be 40% in each theory paper and 50% in each practical paper and 50% marks in aggregate of all papers prescribed in the First and Second Semesters in addition to the passing criteria prescribed in the previous para.
- 1(b) If a candidate has passed in all the papers of the First Year but fails to secure 50% in aggregate of all the papers in the First Year, such a candidate shall be required to reappear in some of the papers of the First Year in the corresponding Semester Examination so that he may improve the First Year aggregate marks to 50% or more.
- 1(c) A candidate may be provisionally promoted to Second Year (Third Semester) if he has passed in at least eight (8) out of 12 papers prescribed in the First Year and provided that he has secured at least 50% marks in aggregate of all the papers of the First Year (including the marks in the failed papers). Such a candidate shall be required to pass the failed papers of the First Year in the corresponding Semester Examination.
- 1(d) A candidate who fails to satisfy the criteria in 1(a), 1(b) and 1(c) for promotion to the Second Year shall be required to rejoin the course in the First Year, if otherwise eligible in accordance with the University regulations laid down in this regard.

Passing of Second Year:

- 2(a) The minimum marks for passing the Second Year (Third and Fourth Semesters taken together) shall be 40% in each theory paper and 50% in each practical paper and 50% marks in the aggregate of all the papers prescribed in the Third and the Fourth Semesters in addition to the passing criteria prescribed in 16.5.

Award of Certificate & Grade System:

- 3(a) No candidate shall be deemed to have satisfied the examination requirements for the award of MSc.IT degree unless he fulfills the criteria for passing the First Year and the Second Year
- 3(b) Candidate eligible for the award of MSc.IT degree shall be classified on the basis of the marks obtained in the First, the Second, the Third, the Fourth and System Project of the Fourth Semester taken together as follows:
- 3(c) First division with distinction: 75% or more marks in the aggregate (provided that the candidate has passed all the papers and all the examination in the first attempt).
- 3(d) First division: 60% or more marks but fails to satisfy the criteria for being classified as first division with distinction as laid down in 3(c).
- 3(e) Second division: All, other than those included in 3(c) and 3(d) above.
- 3(f) No rank shall be awarded to a candidate who has taken more than one attempt in clearing a course.

Notwithstanding anything contained above, a candidate for the MSc.IT degree must pass the final examination within a period of four consecutive academic years from the session of his/her admission to the First Semester of the Course.

Employment Opportunities:

The MSc.IT post graduates are suitable for employment as

- System Analyst/Administrator
- Software Engineer
- R & D Scientist
- EDP Manager
- Teaching Faculty for Computer Science etc.

18. ACADEMIC CURRICULUM FOR NIELIT NON-FORMAL COURSES

18.1 Academic Curriculum for NIELIT ‘O’-level IT Course

The objective of the course is to equip a student with necessary skills as per following job role.

- User Interface (UI) Designer
- Web Designer
- Web Publication Assistant
- Office Automation Assistant
- IoT Application Integrator

Course Recognition: The ‘O’ Level Certificate is recognized as equivalent to Foundation Level Course by the Government of India for the purpose of employment vide Notification No. 43 & 49 dated 1st March, 1995 and 10th April, 1996 respectively issued by the Ministry of HRD, Government of India.

Eligibility: Must have passed 10+2 or ITI certificate (one year) after matric or successfully completed the second year of a Government recognized polytechnic engineering diploma course after class 10.

Admission Test: The selection for admission to these courses is mainly on the basis of a general aptitude written test of XII standard.

Course Structure: There will be 04 (four) theory papers and 01(one) practical paper to be completed in 6 months and 01 (one) project work.

Module No	Course Title	Lecture Hrs.	Practical Hrs.
M1-R5	Information Technology Tools & Basics of Network	48	72
M2-R5	Web Designing & Publishing	48	72
M3-R5	Programming and Problem Solving through Python	48	72
M4-R5	Internet of Things & its Applications	48	72
M5-R5	Practical based on M1-R5, M2- R5 , M3-R5 and M3-R5	-	-
M6-R5	Project Work	40	40

Course Fee for O-Level (IT): Rs. 22,308/-

Examination: Examinations are conducted by NIELIT twice in a year with the following datelines. Details are available in the <https://student.nielit.gov.in>. Each theory module examination will be of three-hour duration and the full marks will be 100 marks. The practical examination based on M1, M2, M3 & M4 papers will have 100 marks (80 for Practical and 20 for Viva Voce). Completion of project work is mandatory for award of pass certificate after passing all theory and practical papers.

Result of Examinations: Results of 'O' and 'A' Levels are available in www.nielit.gov.in. Results are sent as grades to the candidates. Gradation is as follows:

Grade system:

Marks	Grade
Below 50%	F (Failed)
50 – 54%	D
55 – 64%	C
65 – 74%	B
75 – 84%	A
85 and above	S

Award of Certificates: The students would be eligible for the award of 'O' Level Certificate on successfully qualifying the Theory Examinations of all modules, Practical Examination and the Project.

18.2 Academic Curriculum for NIELIT Computer Hardware Maintenance 'O' Level Course (CHM-O)

The objective of the Diploma in Computer Hardware Maintenance (CHM-O Level) Course is to train 10+2 qualifiers to acquire basic knowledge in Computer Hardware & Peripherals for installation, troubleshooting & maintenance including system software management and its back up and to undertake disaster prevention, diagnosis and rectification of faults besides personality development and communication skills.

After the successful completion of course the candidate may be employed as Technicians (PC), Assistant System Administrators, Lab Demonstrators, troubleshooters etc.

Course Recognition: Diploma in CHM-O level is recognized by NIELIT and all the coordination and certifications are provided by NIELIT Aurangabad (Nodal Agency).

Eligibility: 10+2 Passed (any stream) or ITI (One year after 10 passed) in Electrical/ Electronics/Computers/Instrumentation Engineering.

Admission Process: The selection for admission to these courses is mainly on the basis of a general aptitude written test of XII standard or based on the X and XII standard marks.

Course Structure: There will be 06 (four) modules to be completed in 6 months. Practical for all the modules will be conducted along with the theory papers.

<i>Module No.</i>	<i>Course Title</i>	<i>Theory Hrs.</i>	<i>Practical Hrs.</i>
CHM-H1	PC Hardware components	30	30
CHM-H2	PC Architecture	30	20
CHM-H3	Advanced Networks and Networking Peripherals	40	40
CHM-H4	Operating System, Software and Tools	40	40
CHM-H5	Personality Development	34	16
CHM-H6	Devices and Applications	40	40

Course Fee CHMO-Level: Rs. 20,080/- plus GST

Examination Pattern: There will be online exam for theory and offline exam for practical. All the exam will be conducted at the institute only. The theory exam would be of 100 marks & the practical exam would be of 50 marks. To pass the course, 50% marks are required in both theory and practical component in all the six modules. The theory examination for each module would be for duration of 1 ½ hours. Dates for the various activities connected with examinations will be announced on website, well in advance of the examinations. The marks are translated into grades, while communicating results to the candidates as given below:

Grade system:

Marks	Grade
Below 50%	F (Failed)
50 – 54%	D
55 – 64%	C
65 – 74%	B
75 – 84%	A
85 and above	S

Award of certificate and grade systems: When the candidate will pass in all the examinations (including theory and practical), a digital course completion certificate with grade will be provided by the NIELIT which will be issued by NIELIT Aurangabad.

18.3 Academic Curriculum for NIELIT Diploma in Multimedia & Animation Technology (MAT-O Level Course)

NIELIT MAT 'O'-Level also called Diploma in Multimedia & Animation Technology has the following objectives

- To acquire the basic knowledge to appreciate the basic multimedia systems, tools, and techniques.
- To acquire the basic skills to implement components of Multimedia productions and Web Designing
- To acquire the basic knowledge for Animation production skills

As per the recent market trend the objective of the course as well as projected skill sets of the 'O' level qualifiers, it is envisaged that the likely career options will be as Multimedia Production Assistant, Multimedia Technician, Multimedia Architect and multimedia design specialist.

Course Recognition of MAT-O Level: Diploma in MAT-O level is recognized by NIELIT and all the coordination and certifications are provided by NIELIT Kolkata.

Eligibility of MAT-O Level: A student who has passed the 10+2 in any discipline.

Admission process of MAT-O Level: The selection for admission to these courses is mainly on the basis of an Artistic skill or general aptitude written test of XII standard.

Course structure of MAT-O Level: List of the Modules is as follows:

<i>Module No.</i>	<i>Module Title</i>	<i>Theory & Practical Hrs.</i>
MAT.O1.R0	Introduction to Information Technology	150
MAT.O2. R0	Introduction to Multimedia	150
MAT.O3. R0	Multimedia Processing Techniques	150
MAT.O4. R0	Multimedia Design Principles and Applications	150
	Project Work	120

Scheme of Instruction of MAT-O Level: Course will be completed in 2 semesters. Each semester has a duration of 6 months. In first semester module-1, module-2 will be completed. In second semester module-3, module-4 and major project will be completed. The Project shall be carried out by the candidate internally or, outside at some institute/industry and the said project will be evaluated by a project evaluation committee drawing one expert from academia/industry.

Course Fee MATO-Level: Rs. 30,888/- plus GST

Examination pattern of MAT-O Level:

<i>1st Semester</i>	<i>Coverage</i>
Semester- 1	Module- 1 (100 marks) Module- 2 (100 marks) Practical-1 (100 Marks)
Semester- 2	Module- 3 (100 marks) Module- 4 (100 marks) Practical-2 (100 marks) Major Project (200 marks)

Promotion, Course Completion & passing of Exam: The intimation of starting of course, semester and fee structure will be published in local newspaper, website and at various social media (Facebook, Twitter etc.) platform. The candidate has to attend at least 80% of total class to appear in the examination. There will be offline exam for both Theory and practical. All the exam will be conducted at the institute only.

Award of certificate and grade system: After the successful completion of the course the candidate will be awarded a certificate of NIELIT by NIELIT Kolkata (Nodal agency).

Grade system:

<i>Marks</i>	<i>Grade</i>
Below 50%	F (Failed)
50 – 54%	D
55 – 64%	C
65 – 74%	B
75 – 84%	A
85 and above	S

19. ACADEMIC CURRICULUM FOR DIGITAL LITERACY COURSES

19.1 Basic Computer Course (BCC)

Objective of BCC: In step with effort to achieve the objective of achieving computer literacy in an inclusive manner, NIELIT has launched a new programme, “Basic Computer Course (BCC)”. The objective of the course is to impart basic level computer appreciation programme with more emphasis on hands on training. Initially, the course was conceived

as to boost the concept of introducing a course on computer fundamentals, especially for students, studying vocational courses at ITIs/ITCs. However, the course has gained popularity amongst many more categories. The BCC was launched in year 2011. The programme can equip a person to use the computers in day-to-day life for professional and personal use. After completing the course the incumbent will be computer literate and will be able to:

- Acquire confidence in using computer techniques available to users;
- Recognize the basic components of computers and terminology;
- Understand data, information and file management;
- Create documents using Word processor, Spreadsheet & Presentation Software;
- Understand computer networks, Internet;
- Browse the internet, content search, email and collaborate with peers;
- Use e-Governance applications;
- Use computer to improve existing skills and learn new skills.

Eligibility: No specific educational qualifications;

Duration: The total duration of the course is 36 hours, consisting theory, tutorials & Practical.

Course Fee: Rs. 1,544/- plus GST

Examination: Examination for the BCC is conducted by the NIELIT online 1st Saturday of every month (except January). There are many online Examination centres throughout the country. In Manipur State, Examination Centres are at NIELIT Imphal and its Extension Centres at Churachandpur & Senapati.

19.2 Course on Computer Concepts (CCC)

This course is designed to aim at imparting a basic level IT Literacy programme for the common man. This programme has essentially been conceived with an idea of giving an opportunity to the common man to attain computer literacy thereby contributing to increased and speedy PC penetration in different walks of life. After completing the course the incumbent should be able to use the computer for basic purposes of preparing his personnel/business letters, viewing information on internet (the web), receiving and sending mails, preparing his business presentations, preparing small databases etc. This helps the small business communities, housewives, etc. to maintain their small accounts using the computers and enjoy in the world of Information Technology. This course is, therefore, designed to be more practical oriented.

Eligibility: No specific educational qualifications;

Duration: The total duration of the course is 36 hours, consisting theory, tutorials & Practical

Course Fee: Rs. 3,432/- plus GST

Examination: Examination for the CCC is conducted by the NIELIT online 1st Saturday of every month (except January). There are many online Examination centres throughout the country. In Manipur State, Examination Centres are at NIELIT Imphal and its Extension Centres at Churachandpur & Senapati.

Course structure:

SI No.	Chapter	Theory Hours	Tutorial Hours	Practical Hour
1	Introduction to computer	2	1	4
2	Introduction to GUI Based Operating System	3	-	8
3	Elements of Word Processing	3.5	2	9
4	Spreadsheets	3.5	2	10
5	Introduction to Internet, WWW and web browsers	6	-	8
6	Communication and Collaboration	2	-	2
7	Application of presentations	4	-	8
8	Application of Digital Financial Services	1	-	1
Total:		25	5	50

20. ACADEMIC CURRICULUM FOR JOB ORIENTED NSQF ALIGNED SKILL DEVELOPMENT COURSES

20.1 Solar PV Installer (Suryamitra)

Course Duration: 300 hours

Eligibility: 10th pass + ITI / Diploma

NSQF Level: 4

Course Fee: Rs. 15,411/- plus GST

Syllabus Outline: Site Survey for Solar PV system, Assess the customer's PV system requirement, Procure Solar PV system Components, Install Civil and Mechanical parts of Solar PV System, Install Electrical components of Solar PV system Test and Commission Solar PV system., Maintain Solar Photovoltaic System, Maintain Personal health & safety at project site, Customer Orientation for Solar PV system.

Certification and Examination: The assessment for the Theory part will be Offline based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: Sales Manager / Sales Engineer / Marketing Engineer / Industrial sales/ Corporate Sales

20.2 Goods Services Tax (GST) Accounts Assistant

Course Duration: 100 hours

Eligibility: Graduation in Commerce/allied subjects or Diploma in commercial Practice

NSQF Level: 4

Course Fee: Rs. 4,400/- plus GST

Syllabus Outline: Basic Accounting principles, Accounting concepts and techniques for recording transactions, Financial concepts such as calculation of interest, Concept of GST ,How different taxes will subsume under GST, Applicability of GST, Invoice and particulars thereof, Accounting processes and procedures to record, the details of invoice , The difference between invoice and other supported documents (like Purchase order, delivery challan, etc.).

Certification and Examination: Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center. To pass the Qualification Pack, every trainee should score a minimum of 50% in every NOS.

Job Opportunities: Entry level Accountant

20.3 DAS Set-top Box Installer and Service Technician

Course Duration: 200 hours

Eligibility: 8th or 9th pass with 2-years' experience or 10th pass with no experience.

NSQF Level: 4

Course Fee: Rs. 10,274/- plus GST

Syllabus Outline: Install Set Top Box and check RF signal strength, check Digital Signal Strength and quality, align distribution amplifier, connect set top box with TV, connect home theatre System with TV / STB via HDMI, Audio / Video / Video / SPDIF etc. Servicing and resolving, check the AC Mains output with the help of Multimeter and check the external power supply (Adaptor DC Output), Importance of 5S on Productivity & Management, Interaction with Superior, Company Policies and Safety Procedures, Basic Communication Skills, Interact with Supervisor, Coordination with Colleagues, Digital Literacy: A Recap, Money Matters, Preparing for Employment & Self-Employment, Understanding Entrepreneurship, Preparing to be an Entrepreneur.

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: DAS STB Installer & Service Technician, Test & Repair Technician/ Engineer.

20.4 LED Light Repair Technician

Course Duration: 200 hours

Eligibility: ITI/Diploma (Electrical/Electronics)

NSQF Level: 4

Course Fee: Rs. 10,274/- plus GST

Syllabus Outline: Basic of Electronic Components and Electricity, Basics of Electricity, Manual Soldering, LED Basics Basic Parameters of LED, LED Power Sources, Thermal Management of LEDs, LED Configuration, LED Luminary Assembly, Selection of LED Drivers, Diagnosing and Repairing LED Light,, Electro Static Discharge (ESD), Safety Standards, Importance of 5S on Productivity & Management ,Interaction with Superior, Company Policies

and Safety Procedures, Basic Communication Skills, Interact with Supervisor, Coordination with Colleagues, Digital Literacy: A Recap, Money Matters, Preparing for Employment & Self-Employment, Understanding Entrepreneurship, Preparing to be an Entrepreneur.

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: LED Light Repair Technician

20.5 CCTV Installation Technician

Course Duration: 200 hours

Eligibility: 12th Pass

NSQF Level: 4

Course Fee: Rs. 10,274/- plus GST

Syllabus Outline: Basics of electricity, Basics of electronics, Connectors and Cables, Basics of Networking Tools and Equipment, Objective of the Module, Introduction to Electronics Surveillance Introducing CCTV, CCTV Technology, Objective of the Module, Pre-Installation Activities Customer Requirements and Site Analysis, Selection of Components Objective of the Module, Planning for CCTV Camera Installation, Checking the Camera Functions, Objective of the Module ,Connecting Camera and DVR with System, Configuring Network Settings ,Checking the Functioning of the System, Basic Communication Skills, Interact with Supervisor, Coordination with Colleagues ,Digital Literacy: A Recap, Money Matters, Preparing for Employment & Self-Employment, Understanding Entrepreneurship, Preparing to be an Entrepreneur.

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: CCTV Installation Technician, Access Controls Installation Technician

20.6 DTH STB Installer & Service Technician

Course Duration: 200 hours

Eligibility: 8th-9th pass with 2-years' experience or 10th pass with no experience

NSQF Level: 4

Course Fee: Rs. 10,274/- plus GST

Syllabus Outline: Introduction to DTH History, Introduction to DTH Terminologies, Introduction to Components of a Satellite, Understand DTH vs. Other Service, Understand DTH Government Regulation, Market and Future, Understand Piracy in DTH Business, Tool Familiarization, Know your Tools, Understand about Antenna Assembly Components, Consumables Used for DTH Installation, Steps in Installation of a Dish Antenna, Discussion of Potential Mounting Sites, Finding Right Location for Dish, To Dos for Ideal DTH Site Selection, Finding Right Orientation of Mast or Pole, How to Mount Bracket and Mast Assembly, How to Assemble Antenna Assembly How to do Correct Dish Positioning, How to do Correct Cable Routing, How to do Correct Connection, Digital Literacy: A Recap, Money Matters, Preparing for Employment & Self-Employment, Understanding Entrepreneurship, Preparing to be an Entrepreneur.

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: DTH STB Installer & Service Technician, Test & Repair Technician/ Engineer

20.7 Field Technician – Air-conditioner

Course Duration: 200 hours

Eligibility: 8th Pass with 2 years' experience as Field Technician or 10th Pass/ higher qualification with no experience

NSQF Level: 4

Course Fee: Rs. 10,274/- plus GST

Syllabus Outline: basic electronics, Servicing and resolving faults, check the AC Mains and external power supply , Safety precautions while servicing Air-conditioner carry out basic tests such as power supply inspection, volt ampere test and earthing test power supply, compressor, motors, PCB, condenser, Basic Communication Skills, Interact with Supervisor, Coordination with Colleagues ,Digital Literacy: A Recap, Money Matters, Preparing for Employment & Self-Employment, Understanding Entrepreneurship, Preparing to be an Entrepreneur.

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by

Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: Field Technician – Air- Conditioner, Service Supervisor, Field Engineer

20.8 Field Technician – UPS and Inverter

Course Duration: 240 hours

Eligibility: Class 8th passed, ITI/Diploma (Electrical/Electronics)

NSQF Level: 4

Course Fee: Rs. 12,329/- plus GST

Syllabus Outline: basic electronics, Basic introduction of Inverter, basic electronics, Using tools and machines for servicing and repairing of Inverter and UPS. Difference between Inverter and Generator, PCB Components ,and parts PCB assembling and wiring, Use of component ,mounting inverter fitting, Inverter wiring theory PCB Soldering ,Transformer relay and soldering Inverter wiring testing-theory, Inverter fault- theory , Introduction to Battery and basic components , Classification of Battery , Construction and working of Battery-theory , Repairing and servicing of UPS and Inverter- theory ,Safety precautions while servicing Inverter and UPS carry out basic tests such as power supply inspection, volt ampere test and earthing test power supply, compressor, motors, PCB, condenser.

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: Site Support Er (control panel), Safety officer – Support (control panel), Site Manger - Support (control panel)

20.9 Field Technician – Other Home Appliances

Course Duration: 300 hours

Eligibility: Class 8th passed, ITI/Diploma (Electrical/Electronics)

NSQF Level: 4

Course Fee: Rs. 15,411/- plus GST

Syllabus Outline: Understand the symptoms in the water purifier and identify the fault, Replace dysfunctional part in the water purifier unit Confirm functionality of the repaired unit, Achieve productivity and quality as per company's norms, Understand the symptoms in the appliance and identify the fault, Replace dysfunctional part of the small appliance, Confirm functionality of the repaired unit, Achieve productivity and quality as per company's norms

Understand the symptoms in the microwave and identify the fault, Replace dysfunctional part in the microwave, Confirm functionality of the repaired unit, Achieve productivity and quality as per company's norms

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: Field Technician – Other Home Appliances, Service Supervisor, Trainers, Area Service In-charge.

20.10 Smartphone Repair Technician

Course Duration: 200 hours

Eligibility: 10th pass with one year experience

NSQF Level: 4

Course Fee: Rs. 10,274/- plus GST

Syllabus Outline: Types of Mobile Phones and related technologies, Latest Trends in the telephonic technology, Handling of Mobile repair Equipment's, Software and Hardware Components, Diagnosing and Repairing Mobile Phone Faults (Trouble Shooting), Potential risks associated with mobile phone repair. Knowledge on Mobile Based Apps and updating the mobile software's Rules of Mobile Communication. Tools and instruments used in mobile phone repairing. Use of Tools/ Equipment and Various components used in mobile phones., Assembling Parts of mobile phones (mike, speaker, buzzer, LCD, antenna, etc.), Use of Multimeter and use of, Battery Booster. Basic Circuit Board/Motherboard fault checking, Assembling & disassembling of different mobile phones., Soldering & DE soldering Components Using Different Soldering Tools. , Change of different ICs. Work of Different ICs., Fault finding & troubleshooting., Jumpering Techniques. Troubleshooting through circuit diagrams, Repairing procedure for repairing different hardware faults, Maintaining Safety and clean working environment

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: Smartphone Repair Technician, Test & Repair Technician/Engineer, Facilities Management Engineer, Managed Services Engineer, Zonal & Regional Service Head, Service Head

20.11 Solar Panel Installation Technician

Course Duration: 200 hours

Eligibility: 10th Pass

NSQF Level: 4

Course Fee: Rs. 10,274/- plus GST

Syllabus Outline: Basics of Electricity and Power Generation System, Renewable Energy & Solar Energy System, Solar Cells, Photovoltaic Solar Panels, Electrical Power System, Components for Solar PV System, Solar PV Modules, Batteries in a PV System, Charge Controllers, Inverters, Mounting Structures, Responsibilities of a Solar Panel Installation Technician, Prerequisites for Solar Panel Installation, Site Analysis, Installation & Maintenance of Solar Panel, Work Ethics, Workplace Safety, Soft Skills, Personal Strengths & Value Systems, Digital Literacy, A Recap, Money Matters, Preparing for Employment & Self-Employment, Understanding Entrepreneurship, Preparing to be an Entrepreneur

Certification and Examination: The assessment for the Theory part will be Online based on knowledge bank of questions created by the SSC. Practical and Viva will be conducted by Third Party Assessor. Every trainee should score a minimum of 70% in every assessment for passing.

Job Opportunities: Installation Engineer

21. HOW TO APPLY FOR ADMISSION

Interested students can apply for admission through the following URL links:

- i. <https://nielit.gov.in/imphal/content/admission-new>
- ii. <http://14.139.207.251:8080>

The scanned copies of the following documents in jpeg/jpg format are required at the time of submission of online Application Form:

- a. Passport Photograph (Size Limit : 10 KB TO 30 KB)
- b. Signature (Size Limit : 10 KB TO 30 KB)
- c. Left Thumb Impression (Size Limit : 10 KB TO 30 KB)
- d. Right Thumb Impression (Size Limit : 10 KB TO 30 KB)
- e. Aadhaar Card (Size Limit : 50 KB TO 150 KB)
- f. Age Proof Certificate(Preferably class 10 Mark sheet) (Size Limit : 50 KB TO 150 KB)
- g. Category/Caste Certificate (if applicable)(Size Limit : 50 KB TO 150 KB)

- h. Qualifying Examination Mark sheet(s) (Size Limit : 50 KB TO 150 KB)
- i. Others Certificate (if necessary) (Size Limit : 50 KB TO 150 KB)

Interested students can also visit the following NIELIT Centres/Training Units for online application form submission along with or Original Certificates/documents.

1. NIELIT Imphal, Akampat, Imphal East, Manipur - 795001
2. NIELIT Churachandpur Ext. Centre, Hill Town, Opposite Laitui Pharmacy, Tipaimukh Road, Churachandpur - 795128
3. NIELIT Senapati Ext. Centre, Angailongdi, Senapati - 795106
4. NIELIT Training Unit, Old ADC Office, SP office complex, Kangpokpi - 795129
5. NIELIT Training Unit, Tamenglong Govt. Higher Secondary School, Appolo Bazar, Tamenglong - 795141
6. NIELIT Training Unit, DC Office Complex, Phungretang
7. Ukhrul - 795142
8. Training Unit, B-Block, DC Office Complex, Chandel -795127
9. Training Unit, ADC Office Complex, Moreh, Tengenoupal District, Manipur - 795131

ANNEXURE-I : Placement Profile

PLACEMENT PROFILE OF EX-STUDENTS OF NIELIT IMPHAL (formerly DOEACC)

1	ABB India Ltd.,Faridabad	59	Indian Railways,Calcutta
2	Acadamy of Computer & Electronics Centre, Mizoram	60	Irrigation & Flood Control Department (IFCD), Govt. of Manipur
3	ADCO,Calcutta	61	ITC Infotech India Limited, Pune
4	Avery India Ltd.,Faridabad , Guwahati	62	Johnson & Johnson,Calcutta
5	Advance Training Institute (EPI), Dehradun	63	J.K. Telecom, Guwahati
6	Airport Authority of India	64	KLA Electronics Pvt. Ltd. New Delhi
7	Airtel	65	Manipur Police Wireless, Imphal
8	All India Radio, Imphal	66	Metro Railways, Delhi
9	AMARAANTA, SOFTEK, Bangalore	67	MIT, Manipur
10	BARC, Trombay	68	National Airport Authority, Agartala
11	BARCO ELECTRONIC SYSTEMS (P) Ltd.,New Delhi	69	National Airport Authority, Guwahati
12	BEE Canon,Calcutta	70	National Airport Authority, Dimapur
13	Bharatiya reserve Bank Note Mudram Ltd.,West Bengal	71	Natinal Informatic Centre, Itanagar
14	BhartiAirtel Ltd.	72	Neotoric Informatic Pvt. Ltd.
15	Boarder Security Force,New Delhi	73	NIELIT Shilong
16	Boarder Road (GREF),Shillong	74	NIELIT Imphal
17	Business Advanced Control System, New Delhi	75	NIELIT Senapati
18	Bihar Electricity Board,Bihar	76	NIELIT Churhandpur
19	BSNL, Darbhanga	77	NIC Shilong
20	BSNL, Imphal	78	NIC Imphal
21	BSF	79	NIC Arunachal
22	CLOUDZACK Pvt. Ltd	80	Nokia Siemens Network
23	Continental Device India Ltd.New Delhi	81	Nortel Networks Pvt. Ltd., Gurgaon
24	Copper Connection,New Delhi	82	NRHM Data Block Manager
25	Calcom India Ltd. New Delhi	83	Professor (Tejpur University)
26	CMC Ltd.,New Delhi	84	Public Health Engineering Department (PHED), Govt. of Manipur

27	Cognizant Technologies Solution P	85	Ranbaxy
28	Cubeten, Pvt Ltd., Manipur	86	Reliance, Imphal
29	DDK, Dhiphu	87	Reliance, Shillong
30	DDK, Imphal	88	Reliance Infocom Ltd., Patna
31	DECON Infotech Ltd., Kolkata	89	Satcon Ltd., Patna
32	Department of Minor Irrigation, Govt. of Manipur	90	Secretariat, Govt. of Manipur
33	DCM Computers	91	Siemens Ltd., Kolkata
34	DIPLAST, Noida	92	Siemens Network Pvt. Ltd., Bangalore
35	Directorate of Health Services, Govt. of Manipur	93	SI Manipur Police
36	Dr. Shrof Charitable Eye Hospital, Delhi	94	SRM University, Ahmedabad
37	DRDA Imphal East	95	ST Micro Electronics
38	Eastern Railways	96	TANDEM Machines, Mumbai
39	Export House, Faridabad	97	TATA Tele Services Ltd., Vishakhapatnam
40	Elnova Ltd. New Delhi	98	TATA Consultancy
41	Election Office	99	Telco, Tatanagar
42	Election Department, Govt. of Manipur	100	Tech. Officer Family Welfare
43	EMERSON, Chandigarh	101	Service, Noida
44	Ericsson India Ltd. New Delhi	102	Senior Software Developer, Globiz Web Solution Pvt. Ltd.
45	Ericsson Sudan Pvt. Ltd., Sudan	103	USHA India Ltd. Faridabad
46	FCI, Shilong	104	UB India Ltd. New Delhi.
47	General Administration Department (GAD), Manipur Secretariat, Govt. of Manipur	105	Uniline, Delhi
48	Godrej & Boyce Mfg. Co. Ltd	106	United Networks, Sudan
49	HCL, Calcutta	107	Uniword Telecom Limited, Noida
50	Idea	108	VSNL
51	India SATCON Ltd, Patna	109	Zenith Computer Ltd
52	Indian Railway, Baroda	110	Microtech Software Private Limited
53	Indian Navy	111	COFFEEDAY BEVERAGES
54	India Airforce	112	Classic Group Of Hotels
55	India Post	113	JCRE
56	India Documents Soln Ltd, Delhi	114	Likla
57	Intel Corporation Pvt. Ltd. New Delhi	115	MGT Motors
58	INFOSYS, Bangalore	116	Religare Health Insurance

ANNEXURE-II: Some Events in 2018-19



Plantation of tree at NIELIT Imphal campus by Hon-orable Union Minister of State, Shri. S.S. Ahluwalia, Ministry of Electronics of Electronics & IT, Govt. of India



Inauguration of Training Unit at Chandel District (one of the aspirational district) by Shri. Krishna Kumar, IAS, Deputy Commissioner



Distribution of free textbooks to the DGET sponsored O-Level IT students



Industrial visit of "Roof-top Solar PV Entrepreneur" training sponsored by World Bank



Flag hoisting of NIELIT Imphal annual sports meet 2019 by Shri. Armstrong Pame, IAS, Director, Youth Affairs & Sports, Govt. of Manipur



Conduct of 05-days Manipur Science meet-2018 organized by MASTEC, Govt. of Manipur at NIELIT Imphal

ANNEXURE-III: NIELIT Achievers in 2018-19



Maisang Kamei Salice

D/o Shri Maisang Kamei Paul Than & Smt. Maisang
Kamei Sangita, of Kwakeithel Mayaikoibi
1st Position holder of MCA final
Examination-2018,



Sapam Monica Devi

D/o Shri Sapam Loken Singh & Smt. Sapam
Kamalla Devi of Lilong Chajing Mamang Leikai
9th Position holder of MCA final Examina-
tion-2018



Chabungbam Monica Devi

D/o (L) Ch. Chandra Sigh & Smt Ch (o) Shantibala
Devi of Sagolband Tera Loukrakpam Leikai
4th Position Holder of PGDCA final Examina-
tion-2018



NIELIT Bhawan,
Plot No. 3, PSP Pocket, Sector-8,
Dwarka New Delhi - 110077

Churachandpur Extension Centre, Hill Town, Churachandpur, Manipur-795128, telefax: 03874-236866, ccpu@nielit.gov.in
Senapati Extension Centre, Angkailongdi, Senapati, Manipur-795106, Phone: 03871-222646, Fax: 03871-222645, e-mail: senapati@nielit.gov.in