NIELIT

Aizawl Centre

रा.इ.सू.प्रौ.सं
NIELIT

Prospectus

FOREWORD

I am happy that you are contemplating to undergo a course in NIELIT, Aizawl. Let me take this privilege to say a few words about the organization, which you are showing interest.

NIELIT, Aizawl specializes in development of skill in the fields of Information, Electronics and Communication Technology (IECT) through various long term and short-term courses.

The long term courses namely the Diploma in Computer Science & Engg.(DCSE), Diploma in Electronics and Telecommunication Engg.(DETE), Bachelor of Computer Application (BCA), and Master of Computer Application (MCA) are recognized professional courses which fall in formal academic sector. Apart from this, the Centre also offers various NIELIT courses such as 'A' Level, 'O' Level, etc., which are recognized courses of AICTE.

Other Short term courses are aimed at giving proficiency and the hands-on skill in the key areas of technology. The main emphasis is on updating students with the latest development in their fields of specialization after completion of their formal courses. This requirement is especially relevant in the fields of Electronics and Information Technology, which are rapidly advancing all the time. Due to inherent delays in updating syllabi of courses in formal academic institutions, very often the formal technical courses have outdated syllabi. To remedy the situation, institutions like NIELIT have tailor-made their courses to impart knowledge and working skill on the latest development in the field of Electronics and Information Technology.

To facilitate the students of the rural areas and economically weaker section of the society NIELIT Aizawl constructed and commissioned hostels for boys and girls separately.

N. Debachandra Singh
Director Incharge

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1. NIELIT- CORPORATE PROFILE

1.1. The Background

National Institute of Electronics & Information Technology (NIELIT), (erstwhile DOEACC Society), an Autonomous Scientific Society under the administrative control of Department of Electronics & Information Technology (DeitY), Ministry of Communications and Information Technology, Government of India, 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.

At present, NIELIT has thirty one(31) offices located at Agartala, Aizawl, Ajmer, Aurangabad, Calicut, Chandigarh, Chennai, Chuchuyimlang, Churachandpur, Delhi, Gangtok, Gorakhpur, Guwahati, Imphal, Itanagar, Jammu, Jorhat, Kohima, Kolkata, Kokrajhar, Leh, Lucknow, Lunglei, Patna, Ranchi, Senapati, Shillong, Shimla, Silchar, Srinagar, Tezpur with its Head quarters at New Delhi. It is also well networked throughout India with the presence of about 900+ institutes accredited by it.

Over the last two decades, NIELIT has acquired very good expertise in IT training, through its wide repertoire of causes, 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 wide range of projects that it undertakes further augments the basket activities of NIELIT. NIELIT has demonstrated its capability and capacity to under-

take 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 DeitY 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.

1.2 NIELIT, Aizawl – In Brief

NIELIT Aizawl (Formerly DOEACC Centre, Aizawl) established in the 2001 is located at Industrial Estate, Zuangtui in the northern direction from the heart of the capital city of Mizoram. The site spreads over an area of more than one(1) acre.

Since the Centre is situated away from the hustle and bustle of the city, the atmosphere offers a congenial environment for a fruitful academic activity. This further provides an excellent option for the IT students and ITES apprentices with quiet and undisturbed learning environment.

Extension centre at Pukpui, Lunglei was also established in the year 2013 and has trained over 785 students.

1.3 Thrust Area

- The thrust area of NIELIT, Aizawl is Information, Electronics and Information Technology (IECT)

1.4 Objectives

- Disseminate knowledge on all aspects of IT and Electronics.
- Provide Quality Education and Training to prepare individuals for technology driven business environment effectively.
- Provide quality education to participants for upgrading their technical skills in an environment that is conducive to learning by providing good infrastructure.
- Provide continuing support to learners and trainers through design and development of innovative curricula for meeting the dynamically changing IECT scenarios.
- To impart continuing education for upgradation of knowledge and skills in view of high obsolesce in the area of IECT.

2. INFRASTRUCTURE

The building consists of Administrative Wing, Lecture Halls, Faculty Rooms, Computer Laboratories, Electronics Laboratories, Mechanical Workshop, Applied Science Laboratory, Library and Electrical Substation. The state of art hostels with 100-seat capacity for boys and 50-seat capacity for girls is also available inside the campus.

2.1 Library

The Institution Library has a collection of more than 8000 volumes of essential books on electronics and computers, communication in English, etc., for the benefits of both the students and the faculty. Along with this collection, 22 numbers of related journals and magazines are subscribed regularly along with 8 numbers of national and local newspapers. The numbers of the Library collection is likely to increase, depending largely upon requirement and availability. The library is computerized using software developed in-house.

* Previous exam questions of MCA, BCA, DCSE, DETE, 'O' and "A' Level, etc., are available for the students' benefit.

2.2 Computing Facility

The Institution has elaborate computing facility accessible to the students. There are numbers of modern state-of-the art computer labs for use by the students and scholars. Apart from a large number of PCs, which are all connected to the campus LAN, there are several Intel Xeon based servers. There are also high quality laser printers, network printer, projectors, scanner, multimedia accessories, etc. Various software systems are available that run in environments such as Linux, Windows 2008 and 2012 server, Windows 7 and 10. The campus LAN is connected to the Internet through NextComm Fibre and Radio link, BSNL Broadband and VSAT connection. Network is protected using Sonicwall Firewall and dedicated Antivirus system. Some of the facilities worth mentioning are as below:

1. Multimedia enabled state of the art computer lab.
2. Cyber forensic lab.
3. Hardware and Networking lab.
4. Latest hardware configuration powered by Intel processors (majority i3 processors).
5. Authentic and licensed software.
6. Computer labs with ergonomic furnishing.

7. More than 200 computers with 1 Gbps LAN facility.
8. Internet connectivity for all labs.

2.3 Electronics Labs

There are specialized electronic labs such as Electronics & Communication Engg. Lab, Digital and Microprocessor Lab, Electrical and Measurement Lab, Hardware & Networking Lab. These labs have advanced training equipments such as: Fibre Optic Communication trainer, Fiber Optics Power Meter, Fiber Optics Continuity Tester, UV Mechanical Splice Installation Kit, Programmable Logic Controller trainer, 8051 Microcontroller Systems trainer, 8085 Microprocessor System trainer, 8086 Microprocessor System trainer, GSM trainer, Digital & Analog Communication trainer, Computer-Aided Circuit Troubleshooting System, Monitor, Keyboard and SMPS trainer, VLSI Design & embedded system equipments, Process Control trainer, Instrumentation trainer, Power Electronics trainer, Digital & Analog IC trainer and Tester, PC System trainer, PCB Prototyping Machine, ORCAD Pspice Simulation & PCB Design Suite, SMT Rework Station, Soldering and Desoldering Station, Dual Trace CRO (Analog), Bluetooth trainer and Development system, Local Area Network(LAN) trainer, Electrical Machine trainer, Communication Design Software(VisSim/Comm) and Frequency Counter, Satellite communication Trainer, Sensor/Instrumentation Trainer, Control Trainer & Processes, Color Monitor Trainer, Function Generator, Component Development System with Logic probe, Spectrum Analyzer and different ranges of Digital Storage Oscilloscope for Wireless, Microwave etc. training, and PCB Design Lab.

2.4 Medical Electronics Lab

This lab is mainly focused on repair and maintenance of Medical Electronics equipments for Govt. and private hospitals. It consists of Patient Simulator, Electrical Safety Analyzer, Pulse Oxymeter, ECG Simulator, ECG Trainer, EMG Trainer, EEG Trainer, Dual Trace Digital CRO, Defibrilator Analyzer, Electro-Surgery Analyzer, Ultrasound Watt Meter, Distortion Meter, X-Ray Radiation Meter, Pulse Rate Measurement Trainer, Galvanic Skin Resistance Module, BP and Pulse Training Module, Temperature Module, PC Interface and Simulation etc.
Recently acquire equipments consists of Ultrasound Machine, X-Ray, Dental X-Ray, Patient monitor etc.

2.5 Applied Science Lab

It separately consist equipments of Applied Physics and Applied Chemistry. The laboratory contains standard laboratory equipments in order to impart practical knowledge of applied sciences to the students.

2.6 Drawing Hall

The hall is basically for Diploma courses in Computer Science & Engg. (DCSE) and Electronics and Telecommunication Engineering (DETE). In this hall, the students are imparted practical technical skill and they acquire knowledge regarding technical graphics and engineering drawing.

2.7 Mechanical Workshop

The Mechanical Workshop is well equipped with modern mechanical workshop machineries, which serve the purpose not only for the fulfillments of Diploma courses in Computer Science & Engineering and Electronics & Telecommunication Engineering.

This workshop consists of modern mechanical workshop machineries like lathe machine, sheet metal cutting machine, body fly press machine, pillar drilling machine, notching machine, grinding machine, metal sheet folding machine, power hacksaw machine and welding equipment of spot, AC/DC arc, gas. All these machines are equipped with standard and high precision measuring tools and implements with accessories and equipment.

2.8 Lecture Halls

1. Spacious and fully furnished class rooms with modern outlook.
2. High quality bench and desk for every class rooms.
3. Synthetic boards and up-to-date teaching kits.
4. Overhead projector/multimedia projector to aid both the trainers and faculties.

2.9 Transport

The Institution owns two buses and hires additional buses for better conveniences of the staff and students. Buses are on regular services through out the year round. However, the transportation routines are likely to change depending upon academic schedule whenever required.

2.10 Power Supply

1. In-house substation incorporating a 315 KVA Transformer.
2. Back up power includes 63 KVA DG set, 100 KVA DG Set, 250 KVA DG Set and separate UPS for all the floors with back up SMF battery.
3. State of the art electrification work with main panels, sub distribution panels and full fledge lightning protection and boundary lighting with dedicated earthing for all systems.
4. Lift system for the building.

2.11 Staff/Faculty rooms

1. Separate rooms for Administrative staffs and Teaching faculties.
2. Air-conditioned room with up-to-date computer and printer set for each faculty and staff.
3. A private enclosure with Aluminium partitioning.
4. LAN and Internet facilities for every faculty and staff.

2.12 Hostel facility

A. About the Hostel:

This Institution has Hostel accommodation facility for boys and girls separately. The Boys Hostel having built up area to the tune of 2500 sq. m. and Girls Hostel approximately 2000 sq. m. The Boy's Hostel consists of 41 nos. of rooms in a building comprising stilt floor, ground floor plus five storied. All the rooms have double bedded accommodations.

The girls hostel consists of total 51 nos. of rooms in a building comprising stilt floor, ground floor plus for storey having single bedded accommodation.

Both the Hostels have facilities like Kitchen, Dining Hall, Recreation Room, Computer Room, Library, Store Rooms, etc. and 1 no. lift in each building. Both the Hostel buildings have barrier free access for disabled persons.

The Hostels are having warden block and electrical sub-station equipped with 250 KV DG Set. Electricity is available in both Hostels around the clock. Every room has been provided bed with mattress, study tables and chairs, Steel Almirahs etc.

B. Other Facilities in the Hostel:

a) Aqua Guard for drinking water.
b) Cooler for drinking water.
c) 1 no. First Aid Box in each hostel.

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3. COURSES OFFERED BY NIELIT AIZAWL

3.1 Long Term Courses

Course Code	Name of Course
01.	NIELIT 'O' Level Computer Course, under NIELIT.
02.	NIELIT Multimedia and Animation Technology O level (MAT O-level) under NIELIT.
03.	NIELIT 'A' Level Computer Course, under NIELIT.
04.	Bachelor of Computer Applications (BCA), under Mizoram University
05.	Master of Computer Application (MCA), under Mizoram University
06.	Diploma in Computer Science and Engineering (DCSE) under Mizoram State Council for Technical Education.
07.	Diploma in Electronics and Telecommunication Engineering (DETE), under Mizoram State Council for Technical Education.

3.2 Short Term Course

Course Code	Name of Course
0C	Course on computer concepts (CCC).
STC/MMAN/CT01	Certificate Course in Graphic Designing
STC/OASS/CT02	Certificate Course in Soft Skills and Communicative English
STC/ITWD/CT01	Certificate Course in Web Designing
STC/ITWD/CT02	Certificate Course in Advance Web Development using PHP
STC/FNAC/CT01	Certificate Course in Financial Accounting using Tally
STC/ISCF/CT02	Certificate Course in Cyber Forensic
STC/DNET/CP01	Certificate Course in Asp .Net with VB. Net
STC/PRGL/CT01	Certificate Course in Programming through C Language
STC/PRGL/CT02	Certificate Course in Programming in C+ +

STC/JAVA/CT01	Certificate Course in Core Java
STC/JAVA/CT02	Certificate Course in Advanced Java (J2EE)
STC/MMAN/CT03	Certificate Course in 2D Animation using Flash
STC/MBAD/CT01	Certificate Course in Mobile Application Development using Android
STC/HRMT/CT02	Certificate Course in Repair and Maintenance of Medical Electronics.
STC/HDNT/CT01	Certificate course in PC Hardware & Networking
STC/CLCM/CT01	Certificate Course in Cloud Computing

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4. GENERAL INFORMATION

STUDENT ADMISSION/SEMESTER REGISTRATION FLOW CHART (For New Students)

Buy Prospectus @Rs 100

Submit **Application form for Admission** with-
1. Qualifying exam Mark sheet/Certificate
2. Category (ST/SC/OBC) Certificate
3. Processing Fee @ Rs. 100

Appear **counseling/entrance** exam as notified by NIELIT

If selected for admission, fill up **Semester Registration** form with-
1. Semester registration fee @ Rs. 250/-
2. ID Card Fee @ Rs. 100/-
3. Sports/Parting Social fund @ Rs. 300/-
4. Library Caution Fee @ Rs. 1000/-
5. Student Caution Fee @ Rs. 1000/-
6. Uniform (T-Shirt) Fee @ Rs. 500/-
7. IETE Membership fee Rs. 475 (for Diploma only)
8. Semester fee for **Gen/OBC** –
   - @ Rs. 12,500 - Diploma
   - @ Rs. 13,000 - BCA
   - @ Rs. 22,500 - MCA
9. Attested Xerox copy of-
   - Qualifying Mark Sheet & Certificate
   - Birth/Age proof Certificate
   - ST/SC/OBC Certificate
   - Anti-Ragging Affidavit

** The following documents attested Xerox copy must be submitted if available, else it must be submitted within 1 month from the date of registration-
- **Aadhaar Card /Enrollment id**
- **Income Certificate**
- **Migration Certificate**

Submit **semester registration** form to reception counter

Submit **Library Application** form with attested Xerox copy of-
(1) **Student ID card**
(2) **Library Caution Fee payment receipt**

Apply for **University/H&TE registration** within one month from date of admission.

4.1 SELECTION PROCEDURE

Admissions of students to the various courses are subjected to qualifying of the candidates either in the Counseling or Entrance test or both as decided by the Admission Committee.

4.2 SEMESTER REGISTRATION FOR EXISTING STUDENTS

All MCA, BCA, Diploma, A level and O level students have to fill up the semester registration form by paying Semester Registration Fee of Rs. 250/- and Sports/Parting Social Fund of Rs. 300/- every semester for undergoing the courses in the Institution. Students who do not submit the semester registration form within 3 days from the commencement of the semester will be considered as discontinued (For newly admitted students Semester registration must be completed before commencement of the class as notified by the Institution). For any unavoidable circumstances students must take permission from their respective Course Coordinator.

4.3 IDENTITY CARD

The students will be issued Identity Card after their admission. Students are instructed to keep their Identity Card safely and would be required to bring daily at the Institute. Students who have lost their Identity Card can obtain a duplicate Identity Card from the Institution by paying Rs. 100/-.

4.4 GRADING SYSTEM

In order to qualify in a examination for each subject in NIELIT Courses (that is DOEACC 'O', 'A' level) a candidate must obtain at least 50% marks in Theory and Practical examination for each Subject/Module. For the BCA and MCA Course, the grading pattern will be as per guidelines of Mizoram University and for Diploma Courses (DETE and DCSE), the grading system will be as per the existing structure of the Mizoram State Council for Technical Education (MSCTE).

4.5 WORKING HOURS AND HOLIDAYS

The Institution follows five working days in a week from Monday to Friday. In addition, it follows a schedule of holiday as per the rules of the Government of India.

4.6 ATTENDANCE

The students should have minimum 75% attendance in order to be eligible for appearing the final examination and for getting Scholarship facilities.

4.7 LEAVE PROCEDURES

Leave letter should be submitted for each day of leave to the concerned Course Coordinator /Asst. Coordinator. Leave up to 2 consecutive days can be granted by Course Coordinator (If the reason of Leave is found to be genuine).

For leave of more than 2 consecutive days, prior permission has to be taken in writing or verbal, and leave letter should be submitted on joining with medical certificate or other supporting documents. In case of non-possibility of prior permission, information may be given during the leave but before joining by writing or verbal to concerned authority.

Unexplained absence for 10 consecutive days will be treated as discontinued.

4.8 SCHOLARSHIP SCHEME

For Students pursuing MCA, BCA, DETE and DETE courses, Scholarship can be applied to Mizoram Scholarship Board through the Institution. Eligibility will be as prescribed by the Mizoram Scholarship Board.

The Institution has introduced a Scholarship Scheme for SC/ST/Physically handicapped and Female Students of NIELIT O/A Level Courses.

A. Eligibility

a) The scheme will be applicable to SC/ST Physically handicapped/ Female candidates who are pursuing NIELIT O/A level courses as full time through an Institute authorized to conduct the NIELIT accredited courses.

b) Candidates shall have to clear all the papers in the first attempt and complete the courses in number of attempts given in the subsequent paragraphs.

c) Income of the parents of the student from all sources shall not be more than Rs. 1 lac per annum.

B. Submission of applications for scholarship

A candidate has to apply for the Scholarship along with the following:

a. Proof of registration/up gradation.
b. Proof of passing the examination of relevant level.
c. Proof of pursuing O/A level as full time course.
d. Proof of income.

C. Amount of Scholarship

The amount of scholarship shall be four times the examination fee paid per module i.e. Rs. 500/- as at present or in other words Rs. 2,000/- per module. Course-wise amount of scholarship and the number of installments is as under:-

Sl. No.	Level	Duration	Total amount of Scholarship (Rs)
1	'O'	1 year	8,000/-
2	'A'	1 year	20,000/-

4.9 LIBRARY RULES

i. Students are allowed to borrow books as per availability and regulation.
ii. Students can avail Library facility during the working hours only.
iii. Reference books are assessable but only inside the Library and cannot be borrowed.
iv. Delay on returning/renewing of books will be fined per day as per standing rules of Library.
v. Students shall be responsible for the loss of books, in kind or in cash. In case of book injured or defaced, the borrower may make good the damage or loss as applicable.
vi. Any misbehaviors/ immoral conduct like tearing of pages of books, magazines and newspapers marking or writing inside the book will be dealt with strict disciplinary action.
vii. Silence should be maintained inside the Library.
viii. Handbag, rucksack, backpack, knapsack, etc., are restricted inside the Library.
ix. Mobile Phones, Pagers, MP3 Players, iPods, etc. should be switched off inside the Library.
x. Students have to pay library security deposit (refundable)

4.10 LABORATORY RULES

i. No students are allowed inside the laboratory except during practical period. For extra practice, students may take permission of their concerned faculty and Lab In-charge should be informed.
ii. Smoking, eating, drinking and playing Games are NOT allowed in the labs.
iii. No external storage devices are allowed inside the laboratory and in case the requirement arises, the permission should be obtained from Lab in-Charge or Concerned Faculty.
v. For any offence committed by the students in the lab, proper disciplinary action will be taken by the institution.

vi. User is strictly advised to take care of their personal belonging all the time. The Institution is not responsible and liable to any lost of personal belonging in the computer labs.

vi. Strict action will be taken for any lost or damage in the Computer lab.

4.11 DISCIPLINE

i. Smoking, consumption of intoxicants, etc., is strictly prohibited inside and around the Campus.

ii. Students are expected to dress in proper attire inside the Campus.

iii. Students are expected to show respect and decorum & comply with the Faculty, and to carry on appropriately in the Class.

iv. Mobile Phones, Pagers, Mp3 players, iPods, etc., should be switched off inside the Class, Laboratory, Library, Workshop etc., and in case of emergency students can be contacted through the landline of the institution.

The landline numbers are as below:-

Address to receptionist:

(0389) 2350915/2350758

v. Proper disciplinary action will be taken against those students who do not follow the rules and regulations of the institution by Student Disciplinary Action Committee (SDAC) in collaboration with the Security Personnel of this Centre.

vi. Ragging is strictly prohibited. If any incident of ragging comes to the notice of the authority, the concerned student shall be given liberty to explain and if his explanation is not found satisfactory, the authority would expel him from the institution.

NB: *The Centre shall not be responsible for any errors or omissions of the contents in the Prospectus and may be changed time to time as per requirements by the Centre.*

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5. ACHIEVEMENTS

Since its inception NIELIT Aizawl has trained more than 18,000 candidates in the fields of ICT. Thus, NIELIT is proud to announce that we are able to contribute towards making the State achieving IT Literacy. NIELIT Aizawl has trained about 1.7% of the total Population of the State.

5.1 Corporate Training Programmes

1) Raj Bhavan Secretariat – Computer Appreciation Course
2) Excise Dept. Govt. of Mizoram- Computer Appreciation Course
3) Legislative Assembly Secretariat - Computer Appreciation Course
4) Power and Electricity Department - Computer Appreciation Course
5) 1204 Dental Unit (Pushpak) - Computer Appreciation Course
6) Border Security Force(BSF), DIG Office - Certificate course in office Automation
7) Project Pushpak, CE office, Zemabawk - EDP Course

5.2 Consultancy Projects

1) Under Medical Electronics project, the repair and maintenance of Medical equipments in the various hospitals within Mizoram is being undertaken by the centre.
2) Campus networking of Central Agricultural University (CAU) Selesih campus for internet connectivity and VOIP networking.

5.3 Product Development

1) Developed the web portal for Industries department, Govt. of Mizoram.
2) Computerization of SSI Registration for Industries department, Govt. of Mizoram.
3) In-house software for Library.
4) In-house software for EDT Lab Automation.
5) In-house software for CCC information management system.
6) In-house Software for Students Management.
7) Development of e-Learning content for CCC course in Mizo Language.

5.4 Project undertaken/being executed by NIELIT Aizawl

1) Development of North-Eastern Region by enhancing the Training/ Education capacity in IECT area.
2) Capacity Building for training of women & ST youths in IECT in NE Region.
3) Professional IT & Electronics Courses for upliftment of ST Youth & Women in Mizoram.
4) "Free Coaching and Allied Scheme for the candidates belonging to Minority Communities".
5) Fee Subsidization of Professional IT/Electronics Courses for ST Youth & Women.
6) Creating mass cyber security awareness among schools, colleges and government employees through appropriate training and campaign mechanism in North-Eastern States of Mizoram, Nagaland and Tripura.
7) Establishment of Computer Forensics lab and Training Facility in the North Eastern Region.
8) Setting up of Medical Electronics Lab and training of Medical and Paramedical personnel in the NE Region.
9) Capacity Building Certificate Programme in e-Governance for ST Youth of North Eastern States.
10) During the year 2013 – 2015, NIELIT Aizawl imparted giving IT literacy program for mass covering 6 Districts of Mizoram and set up 10 NIELIT Aizawl Study Centres. Out of which 3 centres are exclusively for School Teachers at three districts DIET and 1 centre is exclusively for women candidates at Aizawl district. Total of 4131 candidates has been trained during last three years IT literacy mission under NIELIT Aizawl.

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6. COURSE DETAILS

NIELIT Aizawl offers the following courses:

6.1 LONG TERM COURSES:

1. NIELIT 'O' Level Computer Course

'O' level course of NIELIT Scheme is equivalent to a Foundation Level Course in Computer Applications. Students can acquire this qualification by undergoing this course and passing the examination conducted by NIELIT. After completion of 'O' Level, students can continue NIELIT 'A' level course.

Various subjects for the course are-

Paper Code	Subject
M1-R4	IT Tools and Business System
M2-R4	Internet Technology and Web Design
M3-R4	Programming and Problem Solving Through 'C' Language
M4-R4	Elective: (One Module out of the following three modules to be chosen)
M4.1-R4	Application of .NET Technology
M4.2-R4	Introduction to Multimedia
M4.3-R4	Introduction to ICT Resources
PR	Practical (Based on M1, M2, M3, M4 module syllabus)
PJ	Project

Duration of the Course

Minimum duration of the 'O' Level course is One Year.

Eligibility

10 + 2 or ITI Certificate (one year) after class 10 followed in each case by an accredited 'O' Level Course.

PRACTICAL

The students have to devote half of the total time allotted to each module of the course for the practical session. Practical assignments have been worked out for each theory module. The Practical examination will be based on the syllabi M1-R4, M2-R4, M3-R4 and M4-R4 modules of 'O' Level course.

PROJECT

DOEACC curriculum has a project as an important component of 'O' Level course. The Project is carried out by the student under guidance and support of faculty and management of the respective Institute / Organization. It is felt that such a project provides an opportunity to the student to apply his / her knowledge and skills to real life problems (including oral and written communication skills), and as such the project should be given utmost importance and priority both by the students as well as institution faculty / management in respect of its identification, planning and implementation.

Career opportunities:

The career options available to NIELIT 'O' Level qualifiers are:

- Computer Operator
- Lab. Attendant
- Computer Instructor
- Junior Programmers etc.

2. NIELIT Multimedia and Animation Technology O level (MAT O-level)

Objective:

- 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

Eligibility: 10 + 2 [Any Discipline]

Syllabus: MAT-O level

- MAT.O1.R0: - Introduction to Information Technology.
- MAT.O2.R0: - Introduction to Multimedia.
- MAT.O3.R0: - Multimedia Processing Techniques
- MAT.O4.R0: - Multimedia Design Principles and Applications

Career Options:

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

3. NIELIT 'A' Level Computer Course

'A' level course of NIELIT Scheme is equivalent to Advanced Diploma in Computer Applications. Students can acquire this qualification by undergoing the course in NIELIT Delhi Centre and passing the National Level examination conducted by NIELIT Head Quarters. After completion of A level course students can further enroll in 'B' level course of NIELIT Scheme. 'A' Level Course consists of ten theory modules (nine compulsory modules and one elective module) and one project. The structure of the 'A' Level Syllabus is indicated as follows:

- A1-R4 IT Tools and Business System
- A2-R4 Internet Technology and Web Design
- A3-R4 Programming and Problem Solving through 'C'
- A4-R4 Computer System Architecture
- A5-R4 Structural System Analysis and Design
- A6-R4 Data Structure through 'C++'
- A7-R4 Introduction to Data Base Management System
- A8-R4 Basic of OS, UNIX and Shell Programming
- A9-R4 Data Communication and Network Technologies
- A10-R4 Elective (one out of the following two subjects to be chosen)
- A10.1-R4 Introduction to Object Oriented Programming through JAVA
- A10.2-R4 Software Testing and Quality Management
- PR-1 Practical-I (based on A1, A2, A3, A4 module syllabus)
- PR-2 Practical-II (based on A5, A6, A7, A8, A9, A10 module syllabus)
- PJ Project

Eligibility for admission:
'O' Level or Government recognized polytechnic engineering diploma after class 10, or a Government recognized polytechnic engineering diploma after 10+2 / Graduate
Those who are pursuing graduation can also take admission, but the A level certificate shall be awarded only after the completion of graduation.

Validity of submission of 'A' Level Project:
'A' Level student can submit their project only after clearing their five papers and appearing for the remaining papers in the next examination. Each 'A' Level project would be of approximately 350 man- hours carrying a total of 100 marks (80% for the project evaluation and 20% for the viva-voice).

Career opportunities:
The career options available to a DOEACC 'A' Level qualifiers are:

- Programmer.
- Web Administrator.
- Training Faculty.
- Web Content Developer.
- System Support Engineer.

4. Bachelor of Computer Application Course (BCA)

The BCA course is a full time three years (six semesters) Bachelor's Degree in Computer Application. The basic objective of BCA Course is to provide young men and women with the required knowledge and necessary skills to get rewarding careers into the changing world of Information Technology.

Eligibility Criteria:
A candidate seeking admission to the BCA Course must have passed 10+2 (any stream) securing not less than 50% marks in aggregate (5% relaxation to ST/SC candidates) from the Central Board of Secondary Education or any other equivalent examination recognized by the Mizoram University preferably with Mathematics as one of compulsory or optional course, or any other vocational course related to the computer stream having either Computer Science or Computer Engineering as compulsory/optional course.

Outline of the Course:

Code	*1st Semester*
BCA101	English Language & Communication Skills
BCA102	Mathematics-I (Bridge Course)
BCA103	Introduction to Information Technology
BCA104	Digital Computer Fundamentals
BCA105	Programming Language through C
BCA103P	PC Applications and Internet Technology
BCA105P	Programming in C

Code	*2nd Semester*
BCA201	Personality and Soft Skills Development
BCA202	Mathematics –II (Discrete Mathematics)
BCA203	Data Structure using C
BCA204	System Analysis and Design
BCA205	Accounting and Financial Management

BCA203P	Data Structure using C
BCA205P	Tally ERP 9.0

Code	***3rd Semester***
BCA301	Management Information Systems
BCA302	Mathematics – III (Numerical Analysis)
BCA303	Operating Systems
BCA304	Object Oriented Programming in C++
BCA305	Computer Organization and Architecture
BCA303P	Unix and Shell Programming
BCA304P	C++ Programming

Code	***4th Semester***
BCA401	Environment and Ecology
BCA402	Database Management Systems
BCA403	Computer Networking
BCA404	Software Engineering
BCA405	GUI Programming
BCA402P	Oracle Laboratory
BCA405P	Programming with VB 2010 with Mini Project

Code	**5th Semester**
BCA501	Introduction to Java Programming
BCA502	Computer Graphics and Multimedia
BCA503	Microprocessors
BCA504	Software Project Management
BCA501P	Java Programming
BCA503P	Assembly Language Programming
	Elective – I (Any one from below)
BCA5E1	Introduction to e-Governance
BCA5E2	Computer Network Security
BCA5E3	Data Mining and Warehousing

Code	**6th Semester**
	Elective – II (Any one from below)
BCA6E1	Operation Research
BCA6E2	Theory of Computing
BCA6E3	Fundamentals of TCP/IP
BCA6E4	IT Acts and Cyber Laws

	Elective – III (Any one from below)
BCA6E5	Artificial Intelligence
BCA6E6	Internet and e-Commerce
BCA6E7	Simulation and Modeling
BCA6E8	Analysis and Design of Algorithms
BCA601P	PROJECT WORK

5. Master of Computer Application (MCA)

Duration of the Programme:
The Duration of the Programme shall be of 6 (six) semesters (or 3 Years) leading to MCA degree. Each semester shall have a minimum of 90 working days or as per Mizoram University/AICTE norms. The maximum duration shall be 10 (Ten) Semesters (or 5 years) for completion of the programme from the date of commencement of the first semester.

Eligibility Criteria for Admission:
The eligibility criteria for admission into 1st Semester of MCA programme shall be followed as:

a) A candidate who has passed 3 years (or Six Semesters) Bachelor's Degree (B.A/B.Sc./B.Com./B.C.A/B.B.A. or any other degree course) with at least 50% marks in aggregate or having equivalent grade from any recognized University/Institution with Mathematics as core/ compulsory course at the graduation level.

b) Lateral Entry: A candidate who has passed PG Diploma in Computer Application from any recognized University/Institution or NIELIT 'A' Level course under Govt. of India (with at least 50% aggregate marks) and minimum of one (1) year of institutional study after Bachelor's Degree can be considered for admission into 3rd semester (Third Semester) of MCA programme, subject to the availability of the seats.

Outline of the Course

Code	*1st Semester*
MCA 101	Discrete Mathematics
MCA 102	Programming in C
MCA 103	Financial Accounting and Management
MCA 104	Digital Fundamentals
MCA 105	Computer Organization & Architecture
MCA 191	Programming Laboratory
MCA 192	Digital Fundamentals Laboratory

Code	*2nd Semester*
MCA 201	Object Oriented Programming Systems
MCA 202	Operating Systems
MCA 203	Systems Analysis & Design
MCA 204	Data Structures using C
MCA 205	Numerical Analysis
MCA 291	Programming in C++ (Practical)
MCA 292	Data Structures Laboratory using C

Code	*3rd Semester*
MCA 301	Database Management Systems
MCA 302	Data Communication & Networking
MCA 303	Introduction to Microprocessors
MCA 304	Linux Operating Systems
MCA 305	Analysis & Design of Algorithms
MCA 391	Assembly Language Programming & Interfacing
MCA 392	Oracle Laboratory

Code	*4th Semester*
MCA 401	Theory of Computation
MCA 402	C# .Net
MCA 403	Computer Graphics & Multimedia
MCA 404	Management Concepts & Practices
MCA 405	Information Securities
MCA 491	C#. NET Laboratory
MCA 492	Web Programming

Code	*5th Semester*
MCA 501	Java Programming
MCA 502	Artificial Intelligence
MCA 503	Software Engineering & CASE Tools
MCA (521-524)	Elective-I
MCA (531-534)	Elective-II
MCA 591	Minor Project
MCA 592	Java Programming Laboratory

Code	**6th Semester**
MCA 601	Data Warehousing & Mining
MCA 602	Operations Research
MCA 691	Major Project

6. Diploma in Computer Science and Engineering (DCSE)

Eligibility: Class X passed

The DCSE course is a full time three years (six semesters) Diploma in Computer Science and Engineering course. The course is awarded by the Mizoram State Council for Technical Education. Course Structure of DCSE programme includes-

1st Semester

Code	*Course Name*
101	Communication in English-I
103	Applied Mathematics-I
105	Engineering Science - I
303	Engineering Economics & Accountancy
201	Engineering Drawing – I
203	Workshop Practice – I

2nd Semester

Code	*Course Name*
102	Communication in English-II
104	Applied Mathematics-II
106	Engineering Science – II
301	Entrepreneurship Development
202	Engineering Drawing – II
203	Workshop Practice – II

3rd Semester

Code	*Course Name*
205	Electrical Circuits
206	Introduction to Computer Programming & C Programming Lab
CS401	Computer Architecture & Organization
CS403	Digital Circuits & Lab
CS406	Communication Theory & Lab
CS506	PC Utilities & Lab

4th Semester

Code	*Course*
CS405	Microprocessor & Interfacing & Lab
CS407	Computer Communication & Networking & Lab
CS408	Data Structure & Algorithm& Lab
CS508	Object oriented Methodology & Lab
CS510	Digital Signal Processing

5th Semester

Code	*Course*
CS402	System Programming
CS404	Operating System & Lab
CS409	Theory of Computing
CS501	Computer Graphics & Lab
CS502	Multimedia & Lab
CS604	Graph Theory & Combinatorics
CS507	Database management System (DBMS) & Lab
CS512	Seminar

6th Semester

Code	*Course*
CS503	Internet & Web Tech. & Lab
CS504	Parallel & Distributed Computing
CS505	VLSI & Embedded System
CS509	Software Engineering
CS511	Database Application Development Tools
CS601	Pattern Recognition
CS513	Project

7. Diploma in Electronics and Telecommunication Engineering (DETE)

Eligibility: 10th passed

The DETE course is a full time three years (six semesters) Diploma in Electronics and Telecommunication Engineering course. The Mizoram State Council for Technical Education awards the course. Course Structure of DETE programme includes-

1st Semester

Code	*Course*
101	Communication in English-I
103	Applied Mathematics-I
105	Engineering Science - I
205	Electrical Circuits
201	Engineering Drawing – I
206	Introduction to IT
203	Workshop Practice – I

2nd Semester

Code	*Course*
102	Communication in English-II
104	Applied Mathematics-II
106	Engineering Science – II
202	Engineering Drawing – II
203	Workshop Practice – II
402	Electronics Devices & Circuits
403	Digital Fundamentals

3rd Semester

Code	*Course*
305	Material Science
401	Motors & Control
404	Communication System I
506	Electronics Measurement
407	Pulse & Switching Circuits
410	Personal Computer System Technology

4th Semester

Code	*Course*
306	Environmental Education
408	Communication System II
409	Fiber Optics Communication
501	Hardware Production Technology
503	Applied Electromagnetics
406	Industrial Electronics and Control
405	Technical Seminar I

5th Semester

Code	*Course*
411	Introduction to PLC
507	Telecommunication System
508	Data Communication and Networking
505	Microprocessor Programming and Interfacing
512	Microwave Techniques
502	Technical Seminar II

6th Semester

Code	*Course*
511	Embedded Microcomputer Control
513	Project
510	Broadband Communication
509	Technical Seminar
504	C Programming with LINUX
	ELECTIVE
E 602	[Cellular Technology E-602]
OR	OR
E 603	[Wireless Servicing Technique E-603]

6.2 SHORT TERM COURSE

1. Certificate course on Computer Concept (CCC)

NIELIT, Department of information Technology, Ministry of Communications and Information Technology, Govt. of India has been conducting a Certificate Course on Computer Concept (CCC) since March 2006. The aims of this course are to benefit the people of India including Govt. employees in a positive manner and encourage them to use IT in the disposal of their routine activities.

Examination will be conducted by the Institution on online web-based mode. Any person can appear this exam irrespective of educational qualifications through a NIELIT recognized institution.

The CCC has been recognized by many State Govt, like Gujarat, Maharastra and Govt. of India as a basic qualification for fresh recruitment and / or promotion purposes.

Existing centres conducting NIELIT CCC Course in the state are: Sainik Welfare Khatla, DCC Mamit , DCC Kolasib, DCC Champhai, DCC Serchhip, DCC Lunglei.

The course materials in major Indian languages including Mizo in e-learning mode are available in the NIELIT, Aizawl website (http://www.aizawl.nielit.gov.in).

Eligibility: The candidates can appear in the NIELIT CCC Examination through following three modes and the eligibility criteria for each mode are indicated against each:

- Candidates sponsored by NIELIT approved Institutes permitted to conduct CCC Course – irrespective of any educational qualifications;
- Candidates sponsored by Government recognized Schools/Colleges having obtained an Unique Identity number from NIELIT for conducting CCC - irrespective of any educational qualifications; and
- Direct Applicants (without essentially undergoing the Accredited Course or without being sponsored by a Govt. recognised School/ College)

Duration: The total duration of the course is 80 hours, consisting of:

i)	Theory	25 hours
ii)	Tutorials	5 hours
iii)	Practicals	50 hours

The course could ideally be a two weeks intensive course.

Who can conduct the course:
Institutes conducting any of the O/A/B/C Level accredited courses may conduct the Course on Computer Concepts. No separate accreditation is required for such institutes. Besides, this, Government recognized Schools/Colleges are also eligible to field candidates to NIELIT's CCC Examinations. However, Institutions falling under the above categories are required to inform NIELIT in writing and obtain permission before the commencement of the course.

Fee Plan: -
The Examination Fee is Rs. 500/-.
* Service tax extra as applicable.

No of papers:
Only one examination, which is theory paper.

Minimum score required to qualify CCC successfully :
50 % marks are the minimum score required.

Mode of Examination:
Online based examination.

Calendar of Events for the examination is as below:

Examination		***Time period for submission of examination form***
1. January	-	November 01-30
2. February	-	December 01-31
3. March	-	January 01-31
4. April	-	February 01-28

5. May	-	March 01-31
6. June	-	April 01-30
7. July	-	May 01-31
8. August	-	June 01-30
9. September	-	July 01-31
10. October	-	August 01-31
11. November	-	September 01-30
12. December	-	October 01-31

Course Outline

The syllabus for the course broadly includes:

- Introduction to computer
- Introduction to GUI based Operating System
- Elements of Word Processing
- Spreadsheets
- Computer Communication and Internet
- www and web browsers
- Communication and collaboration
- Making small presentation

2. Certificate Course in Graphic Designing

OBJECTIVE: Introduction to graphic design using multimedia elements like Text, Images and Graphics with special emphasis on illustration and layout and optimization of content for printing, vector tools, Image editing etc.

On completion of the course the student will be able to take up digital graphics design jobs for the graphics print industry.

Outline of Course:

S. No	Topic	Minimum No. of Hours
1.	Introduction to multimedia	10 hrs
2.	Concepts of Graphic Design	10 hrs
3.	Images & photo editing	30 hrs
4.	Graphic designing	30 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	**80 hrs**

Eligibility: 10 + 2 passed
Duration: 3 months

3. Certificate Course in Soft Skills and Communicative English

Objective: This program is mainly aimed at value add to any technical qualification, which help the students to acquire competence to secure jobs in any area related to IT & ITES & in other service industries. In this program modules like Soft Skills comprising of Personality Development, Interview facing techniques etc. along with Communicative English is included. This course would help students to groom their personality, improve upon spoken English, and techniques to face for job, this course can be taken by anyone willing to improve the said traits.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Brief introduction to: Spoken variety of English, the two chief spoken varieties-British and American; Indian English and idea of a neutral accent.	06 hrs
2	Consonant sounds, Vowel sounds in English: Pure vowels (Long vowels and short vowels) Phonetic Symbols,	06 hrs
3	Refresher classes on English Grammar and Vocabulary	06 hrs
4	Connected Speech: Word stress and sentence stress	08 hrs
5	Reading from texts, computer aided teaching and learning exercises	04 hrs
6	Entry behaviour evaluation, Introductory Module on Personality Development	06 hrs
7	Presentation and speech giving techniques	02 hrs
8	Module on Office Etiquette	02 hrs
9	Module on Customer Care	04 hrs
10	Telephone handling Techniques	04 hrs
11	Module on Active Listening	02 hrs
12	Module on Product features and benefits	02 hrs
13	Module on call structure	02 hrs
14	Module on objection handling and questioning Techniques	02 hrs
15	Power point Presentation	02 hrs
16	Module on Telemarketing and Prospecting	02 hrs
17	Module on Complain handling and handling of difficult people	02 hrs
18	Group Discussion	02 hrs
19	Lesson on 'How to Face Interview', Body Language,	08 hrs
20	Debating Competition	02 hrs
21	Conduction of role-plays	02 hrs

22	Conducting Mock interviews	02 hrs
23	Interactive sessions	02 hrs
	Theory / Lecture Hours:	60 hrs
	Practical / Tutorial / Lecture Hours:	20 hrs
	Total Hours:	**80 hrs**

Eligibility: 10th Pass
Duration: 3 Months

4. Certificate Course in Web Designing

Objective: The course has been designed to provide the basic knowledge for design of the web page / site.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1.	Introduction to Internet & Web	04 hrs
2.	HTML	20 hrs
3.	DHTML	10 hrs
4.	JavaScript	10 hrs
5.	Flash	10 hrs
6.	Photoshop	10 hrs
7.	CSS	06 hrs
8.	Project on Website Development	10 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	**80 hrs**

Eligibility: Knowledge of Basic Computer Concept
Duration: 3 Months

5. Certificate Course in Advance Web Development using PHP

Objective: To develop the concepts on web designing and development using server side scripting language PHP and database as My SQL.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1.	Introduction to PHP	20 hrs
2.	Introduction to Ajax	12 hrs
3.	OOPS Concept in PHP	06 hrs
4.	Concept of MY SQL database	20 hrs
5.	Database Programming using PHP and MySQL	12 hrs
6.	Concept of CMS	10 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	**80 hrs**

Eligibility: Knowledge of Basic Computer Concept
Duration: 3 Months

6. Certificate Course in Financial Accounting using Tally

Objective: The objective of the course is to acquaint students with the accounting concept, tools and techniques influencing business organization. At the end of the course student should be able to use accounting and business terminology, explain the objective of financial reporting and related key accounting assumptions and principles.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Introduction to Financial Accounting	10 hrs
2	Company & Account master Creation	05 hrs
3	Voucher types	10 hrs
4	Preparation of reports	05 hrs
5	Introduction to Accounts with inventory	05 hrs
6	Inventory enabled voucher entry	05 hrs
7	Inventory based report	05 hrs
8	Concept of VAT, ST, TDS, FBT,CST, TCS,ED	15 hrs
9	Cost centres, Budgets, Scanners	06 hrs
10	Backup Restore & Security features	04 hrs
11	Payroll	10 hrs
	Theory / Lecture Hours:	45 hrs
	Practical / Tutorial / Lecture Hours:	35 hrs
	Total Hours:	**80 hrs**

Eligibility: 10 + 2 pass with knowledge in computer concepts
Duration: 3 Months

7. Certificate Course in Cyber Forensic

Objective: It enables the students to gain in-depth knowledge in the field of Computer forensics & Cyber Crime. After completion of the course the students will be able to learn investigation tools and techniques, analysis of data to identify evidence, Technical Aspects & Legal Aspects related to cyber crime.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Fundamentals of Networking(OSI,TCP/IP,IP Addressing)	08 hrs
2	Introduction to Cyber Crime	05 hrs
3	Data storage fundamentals	10 hrs
	File Systems- FAT/NTFS	
	File System Analysis with Cyber Check, WinHex	
4	Technical aspects of Cyber Crime	10 hrs
	Network Trace Route	
	Address Identification	
	Network tracing e-mail headers, etc.	
	Search & Seizure	20 hrs
	Practical on Digital Evidence Seizure/Acquisition	
	Practical on Digital Evidence Seizure/Acquisition for Mobile Forensics and PDA Forensics	15 hrs
5	Legal Aspects of Cyber Crime	12 hrs
	IT Act 2000/2008	
	Privacy Issues	
	Involving Law enforcement	
	Theory / Lecture Hours:	30 hrs
	Practical / Tutorial / Lecture Hours:	50 hrs
	Total Hours:	**80 hrs**

Eligibility: Undergoing/completed diploma in Engg./ B.sc/BCA/ B.E/B.Tech/M.sc/MCA/M.Tech

Duration: 3 Months

8. Certificate Course in Asp .Net with VB. Net

Objective:

- Create web based applications
- Use different server controls to crated rich user interactive web sites
- Use different techniques of State management
- Access data from the database in data bound controls on the web page
- Apply master page to different pages in the web site

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1.	Dot Net framework	04 hrs
2.	Using ASP.net and VB. Net ,	06 hrs
3.	OOPs concept using VB.NET	12 hrs
4.	Controls in ASP. Net & ASP. Net objects	16 hrs
5.	Master pages, Themes , Skins, User control, Ajax Control Tool kit	07 hrs
6.	Validation controls & security	07 hrs
7.	Navigation tools	07 hrs
8.	Database concepts	05 hrs
9.	Data controls, classes, objects, DLL's	12 hrs
10.	Publishing & Deploying Web App	04 hrs
11.	Membership service	06 hrs
12.	Advance concepts -LinQ	04 hrs
13.	Projects	30 hrs

Theory / Lecture Hours:	50 hrs
Practical / Tutorial / Lecture Hours:	70 hrs
Total Hours:	**120 hrs**

Eligibility: Undergoing /Graduation with knowledge of any programming Language.

Duration: 3 Months

9. Certificate Course in Programming through C Language

Objective : The course is designed to provide programming fundamentals using C

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Introduction to C	02 hrs
2	Data types & operator	06 hrs
3	Logical & looping constructs	15 hrs
4	Functions	06 hrs
5	Arrays & Pointers	25 hrs
6	Structures & union	10 hrs
7	Standard library & header files	06 hrs
8	File Handling Operations	10 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	**80 hrs**

Eligibility: Basic Knowledge of computer
Duration: 3 Months

10. Certificate Course in Programming in C+ +

Objective: The course is designed to provide programming fundamentals using C+ +

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Introduction to OOP's concept	02 hrs
2	Data types. Operator & Logical /looping	05 hrs
3	Functions and arrays	15 hrs
4	Classes & objects	10 hrs
5	Inheritance	10 hrs
6	Polymorphism	10 hrs
7	Operator overloading	05 hrs
8	Function overloading	05 hrs
9	Exception handling	05 hrs
10	File Handling Operations	08 hrs
11	Introduction to Template	05 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	**80 hrs**

Eligibility: Basic knowledge of any programming Language
Duration: 3 Months

11. Certificate Course in Core Java

Objective : The course is designed to provide programming fundamentals using JAVA

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Introduction to OOP's Classes and Objects	14 hrs
2	Packages & interfaces	06 hrs
3	Exception handling	06 hrs
4	Multithreading	10 hrs
5	Applets & AWT Controls & Swing	20 hrs
6	SQL & JDBC	20 hrs
7	Java I/O	04 hrs
	Theory / Lecture Hours:	30 hrs
	Practical / Tutorial / Lecture Hours:	50 hrs
	Total Hours:	**80 hrs**

Eligibility: Basic Knowledge of Computers
Duration: 3 Months

12. Certificate Course in Advanced Java (J2EE)

Objective : This course is mainly for those who are just starting the programming in java. In this course we are covering all the fundamentals concepts in detail. The beginners will get good foundation of java programming after the course.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Introduction to Core Java	10 hrs
2	Introduction to J2EE	06 hrs
3	SQL & JDBC	20 hrs
4	Beans in Servlets	14 hrs
5	Introduction to struts framework	10 hrs
6	JSP	10 hrs
7	Hibernation	10 hrs
	Theory / Lecture Hours:	30 hrs
	Practical / Tutorial / Lecture Hours:	50 hrs
	Total Hours:	**80 hrs**

Eligibility: Basic Knowledge of programming Languages
Duration: 3 Months

13. Certificate Course in 2D Animation using Flash

Objective : Course that covers the fundamentals of 2D animation techniques using Adobe ® Flash software

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Introduction to 2D animation using Flash	02 hrs
2	Vector graphics, Flash layout & interface	02 hrs
3	Shapes & objects	08 hrs
4	Transformation tools	06 hrs
5	Colors, palettes, text	06 hrs
6	Frame , key frames, layering	06 hrs
7	Sounds & video	06 hrs
8	Shape tween, symbols	06 hrs
9	Motion tween, masking	08 hrs
10	Character design & character animation	04 hrs
11	Action script	12 hrs
12	Publishing & exporting flash files	02 hrs
13	Project work	12 hrs
	Theory / Lecture Hours:	25 hrs
	Practical / Tutorial / Lecture Hours:	55 hrs
	Total Hours:	**80 hrs**

Eligibility: Basic Knowledge of programming Languages
Duration: 3 Months

14. Certificate Course in Mobile Application Development using Android

Objective : The course has been designed to provide knowledge on Application Development for Mobiles running Android.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1.	Android- Background & Architecture	04 hrs
2.	Installing SDK & Starting Android	06 hrs
3.	Creating Applications using Android	10 hrs
4.	Creating User Interface	10 hrs
5.	Concepts of Intents	08 hrs
6.	Using Internet Resources Through Android	10 hrs

7.	Broadcast Recievers	06 hrs
8.	Files & Preferences	08 hrs
9.	Concept of maps and Location Based Services	08 hrs
10.	Using Advance Features-camera, media-player	08 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	**80 hrs**

Eligibility: Basic Knowledge of programming Languages
Duration: 3 Months

15. Certificate Course in Repair and Maintenance of Medical Electronics.

Objective: This programme is to train individuals for entry level jobs in Medical electronics. Graduates of the programme will qualify as a technician in the field of medical electronic equipments. After successful completion of the course, the student will be able to repair and maintain biomedical equipments.

Outline of the Course:

S. No	Topic	Minimum No. of Hours
1	Basic building blocks of Biomedical Equipments	5 hrs
2	Bio-medical Instrumentation & Measurement	15 hrs
3	Diagnostic & Analytical equipment (ECG machine, PH meter, BP apparatus, HB meter, Binocular microscope, Calorimeter, X-Ray machine Ultrasound machine)	20 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	**80 hrs**

Eligibility: ITI / Diploma in Electronics or Instrumentation or Certificate Course in Repair & Maintenance of Electronic Products

Duration: 3 Months

16. Certificate course in PC Hardware & Networking

Objective: To train the officials to acquire basic knowledge in computer hardware and peripherals for installation, PC assembly, trouble shooting and maintenance including system management and its backup and to undertake disaster prevention, a basic knowledge of TCP/IP networks work group, internet and intranet.

Outline of the Course

S. No	Topic	Minimum No. of Hours
1	Introduction to PC Hardware	04 hrs
2	Hardware installation and configuration	04 hrs
3	PC debugging , troubleshooting and Maintenance	04 hrs
4	Software installation and Configuration	04 hrs
5	Networking Basic and Configuration	04 hrs
	Theory / Lecture Hours:	20 hrs
	Practical / Tutorial / Lecture Hours:	60 hrs
	Total Hours:	**80 hrs**

Eligibility: 10 + 2 pass with basic knowledge of computer
Duration: 3 months

7. FEE DETAILS

7.1 Fees payable during the time of New Admission (For Long term Courses):

S. No.	Head		Amount (Rs.)	Remark
1	Semester Registration Fee		250/-	Non-Refundable
2	ID Card		100/-	Non-Refundable
3	Uniform Fee (1 T-Shirt)		500/-	Non-Refundable (For MCA, BCA & Diploma only)
4	Sports and Parting Social Fund		300/-	Non-Refundable
5	Library Caution Fee		1,000/-	Refundable after Completion of Course
6	Students Caution Money		1,000/-	
7	IETE Membership Fee		475/-	For Diploma Students Only
TOTAL		**MCA & BCA**	**3,150/-**	
		Diploma	**3,625/-**	
		O & A Level	**2,650/-**	

7.2 Fees payable during the time of Semester Registration (For Existing Students):

S. No.	Head	Amount (Rs.)	Remark
1	Semester Registration Fee	250/-	Non-Refundable
2	Sports and Parting Social Fund	300/-	Non-Refundable
3	Semester Fee	As per Point No 8.3 (Free for ST/SC Students)	

7.3 SEMESTER FEE FOR LONG TERM COURSES

S. No.	Course	Duration	Fee Per Semester (Rs.) *(Free for ST/SC)*
1	NIELIT 'O' Level Computer Course	1 year	7,500/-
2	NIELIT 'A' Level Computer Course	1 year	12,500/-
3	NIELIT MAT 'O' Level	1 year	12,500/-
4	Bachelor of Computer Application (BCA)	3 years	13,000/-
5	Master of Computer Application (MCA)	3 years	22,500/-
6	Diploma in Computer Science and Engineering (DCSE)	3 years	12,500/-
7	Diploma in Electronics and Telecommunication Engineering (DETE)	3 years	12,500/-

7.4 FEE FOR SHORT TERM COURSES

S. No.	Course	Duration	Fee Per Semester (Rs.) *(Free for ST/SC)*
1	Certificate course on Computer Concepts (CCC)	80 Hours	3,500/-
2	Certificate Course in Graphic Designing	80 Hours	4,500/-
3	Certificate Course in Soft Skills and Communicative English	80 Hours	5,000/-
4	Certificate Course in Web Designing	80 Hours	5,000/-
5	Certificate Course in Advance Web Development using PHP	80 Hours	5,000/-
6	Certificate Course in Financial Accounting using Tally	80 Hours	6,500/-
7	Certificate Course in Cyber Forensic	80 Hours	5,000/-
8	Certificate Course in Asp .Net with VB. Net	120 Hours	8,500/-
9	Certificate Course in Programming through C Language	80 Hours	4,000/-
10	Certificate Course in Programming in C+ +	80 Hours	4,000/-
11	Certificate Course in Core Java	80 Hours	4,000/-
12	Certificate Course in Advanced Java (J2EE)	80 Hours	4,000/-
13	Certificate Course in 2D Animation using Flash	80 Hours	4,500/-
14	Certificate Course in Mobile Application Development using Android	80 Hours	15,000/-
15	Certificate Course in Repair and Maintenance of Medical Electronics	80 Hours	10,000/-
16	Certificate course in PC Hardware & Networking	80 Hours	4,000/-
17	Certificate Course in Cloud Computing	80 Hours	20,000/-

Entrance

NIELIT Building, Ariel View

Corridor

Hostel Dinning Hall

Girls Hostel

Boys Hostel

NIELIT

रा.इ.सू.प्रौ.सं
NIELIT

NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY

(An Autonomous Scientific Society of Department of
Electronics & Information Technology,
Ministry of Communications & Information Technology, Govt. of India)

Industrial Estate, Zuangtui, Aizawl-796017
Phone:(0389)2350581, Fax:(0389)2350582 web:www.aizawl,nielit.gov.in
A Centre of NIELIT, New Delhi

NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY (NIELIT)
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APPLICATION FORM FOR ADMISSION

Please

Paste recent passport size photograph here

1. Name of the course in which admission is sought: _____

2. Name of the Candidate (In block letters) _____
3. Mobile No. _____
4. Father's Name _____
5. Father's Mobile No. _____
6. Mother's Name _____
7. Mother's Mobile No. _____
8. Guardian's Name _____
9. Guardian's Mobile No. _____
10. Date of Birth _____(Day) _____(Month) _____(Year)
11. Sex Male ☐ Female ☐
12. Category ST ☐ SC ☐ OBC ☐ General ☐
13. email _____
14. **Permanent Address** House No. _____ Street Name _____
City/Town _____ District _____
State _____ PIN _____
15. **Present Address** House No. _____ Street Name _____
City/Town _____ District _____
State _____ PIN _____
16. State of Domicile _____

17. Particulars of Examination Passed / Appeared:

Board/Univ	Examination Passed/ Appeared	Year of passing/ Appearing	Subject taken/ Specialization	Percentage of Marks (Math + Sc.)	Overall percentage/ CGPA	Class/ Division

18. DECLARATION BY STUDENT

I hereby declare that all the information furnished by me in this application and in the documents I have submitted in support of my application are true, complete and correct to the best of my knowledge. I also undertake that if I am selected, I shall abide by the rules and regulations of NIELIT, Aizawl as conveyed from time to time, failing which my admission may be cancelled.

Date :

Place : Signature of the Candidate

19. ENCLOSURE

1) Certificate / Marksheet of Qualifying examination.
2) ST/SC/OBC Certificate

ADMIT CARD FOR ENTRANCE TEST

(To be filled in by the candidate)

Paste recent passport size photograph here

1. Name of the Course in which admission is sought:

   _____

2. Name of the Candidate (In block letters as on the application form)

   _____

(To be filled in by the office)

4. Roll No. : ……
5. Venue of Entrance Test : ……
6. Date of Entrance Test : ……

(Co-ordinator of Examination)
NIELIT Aizawl