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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 (MEIT), 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 (PGDCA), Bachelor of Computer Applications (BCA), Master of Computer Application (MCA) 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. NIELIT Imphal is happy to introduce Post Graduate Diploma in Information & Cyber Security, affiliated to Manipur Technical University, Imphal from the academic session 2020-21.

Over the years, NIELIT courses have benefited a number of students and its popularity has been increasing. So far the institution has 3615 students in Formal University affiliated courses and 8742 in Non-Formal NIELIT Courses. A total of 40,083 (including formal, non-formal, Digital Literacy and short term courses) candidates have been trained since its inception in the year 1988.


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

NIELIT Imphal setup two Extension Centers at Churachandpur & Senapati under the financial support of MeitY, Govt. of India. These two extension Centres became operational from the academic session 2013-14 with intake capacity to train 600 students/year.

Besides the training activities, NIELIT Imphal also devoted to other activities such as sports, yoga, cleanliness drive, national integrity and voluntary participation in nation building. In the previous academic session, the institute had organized various event for students and staff such as Job fair, Sports meet, annual fresher's meet, etc.

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
6. Setup of labs in "Cyber Security & Networking", "Embedded System & IoT", "Nano Technology" and "Augmented Reality & Virtual Reality" under accumulated savings of NIELIT.
7. Development of Cyber Forensic Training cum Investigation Labs in North-Eastern States and Cloud based centralized Cyber Forensics Lab Infrastructures.
8. Training of youth and paramedics in operating, repair & maintenance of electro-medical equipment and provide service in the field of repair & maintenance and calibration in the North-Eastern states.
9. Digital Intervention on Handloom and Handicraft Sector for Livelihood enhancement of artisans of NE States.


(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 (MEIT), 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.

At present, NIELIT has forty one (41) offices located at Agartala, Aizawl, Ajmer, Aurangabad, Bhubaneswar, Calicut, Chandigarh, Chennai, Chuchuyimlang, Churachandpur, Delhi, Dibrugarh, Gangtok, Gorakhpur, Guwahati, Haridwar, Imphal, Itanagar, Jammu, Jorhat, Kohima, Kolkata, Kokrajhar, Kurukshetra, Leh, Lucknow, Lunglei, Majuli, Mandi, Pasighat, Patna, Pali, Ranchi, Senapati, Shillong, Shimla, Silchar, Srinagar, Tezpur, Tura, Tezu with its Headquarters at New Delhi. It is also well networked throughout India with the presence of about 700 + institutes.

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 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 MEIT 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 roadmap for adopting appropriate pedagogy for metamorphosing NIELIT into an Institute of National Importance.

2. ABOUT NIELIT IMPHAL

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) Imphal.

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

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.

3. CORE COMPETENCIES & FACILITIES

3.1 Core Competencies

NIELIT Imphal specializes in development of skill in the fields of Electronics & Communication Engineering and Information Technology through various long term and short term courses. NIELIT Imphal also implements various PMKVY skill development courses in the field of IT, Electronics, Renewable energy etc. There are 16 trainers in 10 different Job Roles in Electronic Sector and 03 trainers in 03 different job roles in IT Sector.

The Centre is competent in the following areas:

- | | |
|------------------------|--------------------------|
| 1) Computer Networking | 2) Cyber Security |
| 3) Medical Electronics | 4) Embedded System & IoT |

- 5) Big Data Analytics
- 6) Renewable Energy
- 7) Nano Technology
- 8) Augmented & Virtual Reality

3.2 Facilities

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. The Institute assigned one computer to one student for training.



The Institute has also well-equipped labs in Electronics & allied fields. Apart from labs, the Institute has Mechanical Workshop, Library (with digital library facility), 150 seats capacity Seminar Hall, Multipurpose Hall and Indoor Basketball hall. Recently, NIELIT Imphal setup various new labs such as “Cyber Security & Networking”, “Embedded System & IoT”, “Nano Technology” and “Augmented Reality & Virtual Reality”

4. COURSES OFFERED

4.1 Formal University Affiliated Courses

Sl.	Name of the Course	Course Duration	Certificate awarded by
1	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

6	Master of Computer Application (MCA)	03 years (6 Semesters)	Manipur University
7	Post Graduate Diploma in Information & Cyber Security (PGDICS)	01 year (2 Semesters)	Manipur Technical University

4.2 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

4.3 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	80 Hours	NIELIT	3
4	CCC+ (Course on Computer Concepts Plus	126 Hours	NIELIT	-
5	ECC – Expert Computer Course	200 Hours	NIELIT	-

4.4 Job oriented NSQF aligned Skill Development Courses

Sl.	Name of the Course	Course Duration	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

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

Sl.	Name of the Course	Duration in hours	Eligibility	NSQF Aligned Level
NSQF Aligned IT COURSES				
1	Certificate course in Web Designing	80	Computer Knowledge	3
2	Advanced Diploma in Computer Application Accounting and Publishing	200	XII passed	4
3	Certification Course in Data Entry and Office Automation	135	XII passed	4
4	Certificate Course in Linux, Apache, MySQL and PHP	80	Programming Knowledge	5
5	Certified Multimedia Developer	80	XII Pass with Computer Knowledge	5
6	Certified Android Apps Developer	100	Programming Knowledge with Concepts of OOP's	5
7	Certificate Course in System Administration using Linux	80	Programming Knowledge	6
8	Certificate Course in Cyber Forensic	500	Graduate in Science/ Engineering Stream pursuing	6
9	Certificate course on Internet of Things (IoT) Applications	360	B.E./B.Tech in Electronics/ Electronics & Communication/ Electrical/ Electrical and Electronics/ Instrumentation/ Biomedical /Computer Science/Information Technology or MSc in Electronics/ Instrumentation/ Computer Science/ Information Technology or Diploma in Electronics/ CS/IT/EEE/EI. Minimum Age: 20	6
10	Certified Data Analyst	240	Undergraduate or higher (in Computer Science/ IT/ Electronics/ Computer Applications) and knowledge of any computer language, Internet Concepts and Database.	6

11	Networking Specialist (NS)	780	Graduate / Undergraduate. Knowledge of Basic Data Communication would be an advantage. However, it is not mandatory.	6
12	Advanced Diploma in Big Data Analytics	480	3year diploma/Graduation in science/commerce/statistics/ engineering or equivalent with good computer programming knowledge.	7
NSQF Aligned ELECTRONICS COURSES				
13	Assembly and Maintenance of Personal Computer	240	ITI/Diploma/XII pass with Computer/Elect. Knowledge	3
14	Repair & Maintenance of ECG and ICCU Equipment	300	X Pass	3
15	Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine)	300	X Pass	3
16	Repair and Maintenance of Dental Equipment	300	X Pass	3
17	Certificate course in Arduino based Embedded System Design.	300	Diploma in Electronics /Electronics & Communication/ Electrical/ Electrical & Electronics/ Instrumentation/ Biomedical /Computer Science/Information Technology OR BSc in Electronics/ Instrumentation/ Computer Science/ Information Technology.	4
18	Solar Power Installation, Operation and Maintenance	80	XII Pass	4
19	Installation Repair and Maintenance of Home Appliances	80	10+2/ITI/Undergoing Diploma	4
20	Certificate course in Arduino based Embedded System Design	80	Diploma / BE / BSc. Physics	4
21	Certificate Course in VLSI Design	80	Engineering Graduate (Undergoing also)	5

22	Embedded System Design using 8-bit Microcontrollers	400	3 Year Diploma in Electronics/Electronics & Communication/ Electrical/ Electrical and Electronics/ Instrumentation Basic knowledge about microprocessors/ microcontrollers and peripherals used in the embedded system field are required to be successful in the qualification.	5
23	Certificate Course in DSP using MATLAB	80	Engineering Graduate (Undergoing also)	7
Non NSQF Aligned IT COURSES				
24	Certificate course in Desk Top Publishing	80	Computer Knowledge	
25	Certificate course in .NET	80	B.Sc + Programming Knowledge	
26	Certificate course in Programming in C Language	80	Computer Knowledge	
27	Certificate course in Programming in C++	80	Programming Knowledge	
28	Certificate Course in Core Java	80	Computer Knowledge	
29	Advance Java (J2EE)	80	Basic knowledge of programming	
30	Certificate Course in Python programming	80	Computer knowledge	
31	Diploma in Computer Application	360	Class XII passed	
Non NSQF Aligned FINANCIAL ACCOUNTING COURSES				
32	Certificate course in Financial Accounting Using Tally ERP 9.0	100	XII pass with Computer Knowledge	
Non NSQF Aligned ELECTRONICS COURSES				
33	Smartphone Repair Technician	200	X Pass	
34	Certificate Course in Embedded System and IoT	80	Diploma / BE / BSc. Physics	

5. IN-TAKE AND RESERVATION

In-take capacity of the various courses are:

Sl.	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		20		20
6	MCA		30		30		30
7	PGDICS		40				20
8	NIELIT 'O' Level	60	200	30	30	30	30
9	CHM-'O' Level	20	20	30	30	30	30
10	MAT-'O'	20	30				
11	Other Courses	Will 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.

6. COURSE FEE STRUCTURE

6.1 Formal University Affiliated Courses

Sl.	Name of the Course	Course Fee (₹)	Exam Fee (₹)	Registration Fee (₹)	GST (₹)	Total (₹)
Diploma in Electronics and Communication Engineering (DECE)						
1	1st Year (Semester-I & II)	37,400/-	3,600/-	NIL	NIL	41,000/-
	2nd Year (Semester-III & IV)	35,200/-	3,600/-	NIL	NIL	38,800/-
	3rd Year (Semester-V & VI)	36,300/-	3,600/-	NIL	NIL	39,900/-
Diploma in Computer Science and Engineering (DCSE)						
2	1st Year (Semester-I & II)	37,400/-	3,600/-	NIL	NIL	41,000/-
	2nd Year (Semester-III & IV)	35,200/-	3,600/-	NIL	NIL	38,800/-
	3rd Year (Semester-V & VI)	36,300/-	3,600/-	NIL	NIL	39,900/-
3	Post Graduate Diploma in Computer Applications (PGDCA)	27,500/-	3,200/-	NIL	NIL	30,700/-

Bachelor of Computer Application (BCA) Course						
4	1st Year (Semester-I & II)	37,400/-	3,600/-	NIL	NIL	41,000/-
	2nd Year (Semester-III & IV)	35,200/-	3,600/-	NIL	NIL	38,800/-
	3rd Year (Semester-V & VI)	36,300/-	3,600/-	NIL	NIL	39,900/-
Master of Science in Information Technology (MSc.IT)						
5	1st Year (Semester-I & II)	41,800/-	3,400/-	NIL	NIL	45,200/-
	2nd Year (Semester-III & IV)	39,600/-	3,400/-	NIL	NIL	43,000/-
Master of Computer Application (MCA)						
6	1st Year (Semester-I & II)	41,800/-	3,400/-	NIL	NIL	45,200/-
	2nd Year (Semester-III & IV)	39,600/-	3,400/-	NIL	NIL	43,000/-
	3rd Year (Semester-V & VI)	41,800/-	3,400/-	NIL	NIL	45,200/-
Post Graduate Diploma in Information & Cyber Security (PGDICS)						
7	Semester-I	16,000/-	*	NIL	NIL	16,000/-
	Semester-II	16,000/-	*	NIL	NIL	16,000/-

(*) will be notified later.

6.2 Long Term Non-Formal Courses

Sl.	Name of the Course	Tuition Fee (₹)	Exam Fee(₹)	Registration Fee(₹)	GST (₹)	Total (₹)
1	NIELIT 'O' level IT course	23,040/-	3,700/-	500/-	NIL	27,240/-
2	NIELIT CHM-“O” Level Course on Computer Hardware Maintenance	22,400/-	3,700/-	500/-	4,788/-	31,388/-
3	NIELIT MAT-O Level (Diploma in Multimedia & Animation Technology)	34,560/-	3,700/-	500/-	6,977/-	45,737/-

6.3 Digital Literacy Courses

Sl.	Name of the Course	Tuition Fee (₹)	Exam Fee(₹)	Registration Fee(₹)	GST (₹)	Total (₹)
1	ACC - Awareness in Computer Concepts	1,000/-	100/-	100/-	216/-	1,416/-
2	BCC - Basic Computer Course	1,800/-	450/-	0	405/-	2,655/-
3	CCC - Course on Computer Concepts	4,000/-	500/-	100/-	828/-	5,428/-
4	CCC+ (Course on Computer Concepts Plus	6,000/-	450/-	100/-	1,179/-	7,729/-
5	ECC – Expert Computer Course	10,000/-	500/-	100/-	1,908/-	12,508/-

6.4 Job oriented NSQF aligned Skill Development Courses

Sl.	Name of the Course	Tuition Fee (₹)	Exam Fee (₹)	Registration Fee (₹)	GST (₹)	Total (₹)
1	Solar PV Installer (Suryamitra)	14,010/-	0	0	0	14,010/-
2	BFSI Goods & Services Tax (GST) Accounts Assistant	4,400/-	0	0	0	4,400/-
3	DAS Set-top Box Installer and Service Technician	14,010/-	0	0	0	14,010/-
4	LED Light Repair Technician	16,812/-	0	0	0	16,812/-
5	CCTV installation Technician	16,812/-	0	0	0	16,812/-
6	DTH Set Top Box	15,878/-	0	0	0	15,878/-
7	Field Technician - Air-Conditioning	16,812/-	0	0	0	16,812/-
8	Field Technician - UPS and Inverter	16,812/-	0	0	0	16,812/-
9	Field Technician -Other Home Appliance	18,680/-	0	0	0	18,680/-
10	Mobile Phone Hardware	16,812/-	0	0	0	16,812/-
11	Solar PV System Installation Technician	20,548/-	0	0	0	20,548/-

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

Sl.	Name of the Course	Tuition Fee (₹)	Exam Fee (₹)	Registration Fee (₹)	GST (₹)	Total (₹)
NSQF Aligned IT COURSES						
1	Certificate course in Web Designing	4,000/-	800/-	100/-	882/-	5,782/-
2	Advanced Diploma in Computer Application Accounting and Publishing	10,000/-	800/-	100/-	1,962/-	12,862/-
3	Certification Course in Data Entry and Office Automation	5,940/-	800/-	100/-	1,231/-	8,071/-
4	Certificate Course in Linux, Apache, MySQL and PHP	4,000/-	800/-	100/-	882/-	5,782/-
5	Certified Multimedia Developer	4,000/-	800/-	100/-	882/-	5,782/-
6	Certified Android Apps Developer	5,000/-	800/-	100/-	1,062/-	6,962/-
7	Certificate Course in System Administration using Linux	4,000/-	800/-	100/-	882/-	5,782/-
8	Certificate Course in Cyber Forensic	25,000/-	800/-	100/-	4,662/-	30,562/-

9	Certificate course on Internet of Things (IoT) Applications	18,800/-	800/-	100/-	3,546/-	23,46/-
10	Certified Data Analyst	12,000/-	800/-	100/-	2,322/-	15,222/-
11	Networking Specialist (NS)	39,000/-	800/-	100/-	7,182/-	47,082/-
12	Advanced Diploma in Big Data Analytics	24,000/-	800/-	100/-	4,482/-	29,382/-
NSQF Aligned ELECTRONICS COURSES						
13	Assembly and Maintenance of Personal Computer	13,200/-	800/-	100/-	2,538/-	16,638/-
14	Repair & Maintenance of ECG and ICCU Equipment	16,500/-	800/-	100/-	3,132/-	20,532/-
15	Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine)	16,500/-	800/-	100/-	3,132/-	20,532/-
16	Repair and Maintenance of Dental Equipment	16,500/-	800/-	100/-	3,132/-	20,532/-
17	Solar Power Installation, Operation and Maintenance	4,400/-	800/-	100/-	954/-	6,254/-
18	Installation Repair and Maintenance of Home Appliances	4,400/-	800/-	100/-	954/-	6,254/-
19	Certificate course in Arduino based Embedded System Design	16,500/-	800/-	100/-	3,132/-	20,532/-
20	Certificate Course in VLSI Design	4,400/-	800/-	100/-	954/-	6,254/-
21	Embedded System Design using 8-bit Microcontrollers	22,000/-	800/-	100/-	4,122/-	27,022/-
22	Certificate Course in DSP using MATLAB	4,400/-	800/-	100/-	954/-	6,254/-
Non NSQF Aligned IT COURSES						
23	Certificate course in Desk Top Publishing	4,000/-	-	100/-	738/-	4,838/-
24	Certificate course in .NET	4,000/-	-	100/-	738/-	4,838/-
25	Certificate course in Programming in C	4,000/-	-	100/-	738/-	4,838/-
26	Certificate course in Programming in C++	4,000/-	-	100/-	738/-	4,838/-
27	Certificate Course in Core Java	4,000/-	-	100/-	738/-	4,838/-
28	Advance Java (J2EE)	4,000/-	-	100/-	738/-	4,838/-
29	Certificate Course in Python programming	4,000/-	-	100/-	738/-	4,838/-

30	Diploma in Computer Application	10,000/-	-	100/-	1,818/-	11,918/-
Non NSQF Aligned FINANCIAL ACCOUNTING COURSES						
31	Certificate course in Financial Accounting Using Tally ERP 9.0	5,000/-	-	100/-	918/-	6,018/-
Non NSQF Aligned ELECTRONICS COURSES						
32	Smartphone Repair Technician	8,000/-	-	100/-	1,458/-	9,558/-
33	Certificate Course in Embedded System and IoT	4,000/-	-	100/-	738/-	4,838/-

7. 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 MeitY, Govt. of India from time to time.

8. ACADEMIC CALENDAR & EVENTS

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

For the year 2021, updates will be provided to the institute's website <https://nielit.gov.in/imphal>

9. ACADEMIC CURRICULUM FOR FORMAL COURSES AFFILIATED TO THE MANIPUR UNIVERSITY

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

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

- a) Design and Fabrication of Printed Circuit Boards (PCB)
- b) Industrial Product Design
- c) Repairing of Electronic Equipment
- d) Installation and Maintenance of Electronic, Electrical and Electro-Mechanical System
- e) 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

- a) 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 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:

Sl	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 Programming 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 Applications	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
	CSE-5-504/ECE	C Programming with LINUX	70	15	15	0	25	25	150	5
5	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-	Elective – I	70	15	15	0	0	0	100	3
6	601/602/603/ECE	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)										
	ECE-6- 601/ECE	Cellular Technology	70	15	15	-	-	-	100	3
	ECE-6- 602/ECE	Wireless Servicing Technique	70	15	15	-	-	-	100	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:

- (i) After the last date of admission and just before the beginning of the academic session, provided there is a vacancy in the desired trade.
- (ii) 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:-

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

9.2 Academic Curriculum for Diploma in Computer Science & Engineering (DCSE)

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

- a) Good knowledge of the Computer architecture.
- b) Familiarity with various circuit boards and chips used in computers.
- c) Knowledge of system software and programming.
- d) 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
- 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 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:

Sl	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/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 Drawing – 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)	70	15	15	0	0	0	100	3
	CSE-504.1	Parallel & Distributed Computing								
	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)	70	15	15	50	25	25	200	4
	CSE-604.1	Introduction to Object Oriented Programming and Visual Basic								
	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:

- (i) After the last date of admission and just before the beginning of the academic session, provided there is a vacancy in the desired trade.
- (ii) 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.21)

Eligibility for passing & promotion with Backlog Courses:

Same as DECE- (Please refer page No.21)

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:-

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

9.3 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 1400, each semester being 600 marks. In each Semester there shall be 6 (Six) 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.

1st 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	Communication Skill-I	35
107	Practical	150
2nd Semester		
108	Data Communication and Networks	35
109	Programming in VB	35
110	RDBMS concepts using SQL Server	35
111	Object Oriented Programming Using C++	35

112	Internet Programming Tools	35
113	Communication Skill-II	35
114	Practical/Project	150

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:

Particulars	University Exam	Internal Assessment	Total
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.

9.4 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 below:

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 of Semester-VI		125	475	600

Examination Pattern of BCA

- (i) 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.
- (ii) 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.
- (iii) 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

- (i) 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.

- (ii) A student who has enrolled himself / herself in more than one college / institute simultaneously shall not be admitted into the End Semester Examinations.
- (iii) 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.
- (iv) 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.

9.5 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-semester) 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.

(i) 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

(ii) 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			
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			
MSCIT-403:E3.3	Pattern Recognition			
MSCIT-404	Project	100	200	300
Total of Semester-IV		175	425	600

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

- (i) Each theory paper in the Semester Examination shall be of three hours duration and shall carry 75 marks.
- (ii) Each practical paper in the Semester Examination shall be of four hours duration to be performed in one day and shall carry 75 marks.

- (iii) Internal assessment of each paper (both theory and practical) shall be based on such works as assignments / practical / seminars / unit tests / minor projects, etc.
- (iv) 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.
- (v) 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.

9.6 Academic Curriculum for Master of Computer Application (MCA)

1. Objective: The Objective of the course is to impart knowledge and training to the candidates to become a Master degree holder in Computer Application in the general area of Information Technology. The MCA degree holders are suitable for employment as Programmer, System Analyst and Administrator or Faculty in colleges for Computer & IT subjects.

2. Recognition: This course is affiliated to Manipur University. The course is a Three Years (6-semester) Master Degree Course awarded by Manipur University.

3 Eligibility for MCA: 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 MCA Course.

(i) 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

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

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

5 Course Structure: There are 29 modules, 01 Mini Project and 01 Major Project to be covered in 03 years (06 Semesters).

6. Scheme of Instruction for MCA (as per Manipur University):

Code No.	Title	L-T-P*	Credit	Total Marks	
				Internal	External
MCA-101B	Mathematical Foundation of Computer Sc	3-0-0	4	25	75
MCA-102B	Computer Programming and Problem Solving in C	3-0-2	4	25	75
MCA-103B	Computer Organisation & Architecture	3-0-0	4	25	75
MCA-104B	Unix & Shell Programming	3-0-2	4	25	75
MCA-105B	Fundamental of Web Technologies	3-0-2	4	25	75
MCA-106	Programming Lab – I (102,104,105)B	0-0-6	4	25	75

	Semester Total:			600	
Second Semester					
MCA-201B	Probability & Statistics	3-1-0	4	25	75
MCA-202B	Data Structures using C	3-0-2	4	25	75
MCA-203B	Database System	3-0-2	4	25	75
MCA-204B	Formal Language and Automata Theory	3-0-0	4	25	75
MCA-205B	Object Oriented Programming in JAVA	3-0-2	4	25	75
MCA-206B	Programming Lab – II (202,203,205)B	0-0-6	4	25	75
	Semester Total:			600	
Third Semester					
MCA-301B	Design and Analysis of Computer Algorithms	3-1-2	4	25	75
MCA-302B	Problem Solving with Python	3-0-2	4	25	75
MCA-303B	Data Communication & Computer Networks	3-0-2	4	25	75
MCA-304B	Operating System	3-0-3	4	25	75
MCA-305B	Elective I (To opt from other department/ institute)	3-0-0	4	25	75
MCA-306B	Programming Lab III (A:301,B:302,303)	0-0-6	4	25	75
	Semester Total:			600	
Fourth Semester					
MCA-401B	Computer Graphics	3-0-3	4	25	75
MCA-402B	Object Oriented Analysis and Design	3-0-0	4	25	75
MCA-403B	Software Engineering	3-0-0	4	25	75
MCA-404B	Elective II	3-0-0	4	25	75
MCA-405	Elective III(To opt from other department/ institute)	3-0-0	4	25	75
MCA-406	Programming Lab IV (A:401,B:304)B	0-0-6	4	25	75
	Semester Total:			600	
Fifth Semester					
MCA-501B	Combinatorics and Graph Theory	3-0-0	4	25	75
MCA-502B	Advanced Java Programming	3-0-3	4	25	75
MCA-503B	Artificial Intelligence	3-0-0	4	25	75
MCA-504B	Elective IV	3-0-0	4	25	75
MCA-505B	Elective V	3-0-0	4	25	75
MCA-506B	System Project I	0-0-3	4	25	75
	Semester Total:			600	

Code No.	Title	Mark Distribution		
MCA-601B	System Project II	0-0-0	12	
	(a)Mid-Semester Evaluation			100
	(b)End-Semester Evaluation			
	Dissertation			100
	Viva-Voice			100
	Semester Total:			300
MCA Grand Total:				3300

Papers to be opened for other than Computer Science Department for CBCS

Semester III					
CS-O3.1	IT Tools ans Application	3-0-2	4	25	75
CS-O3.2	Object Oriented Programming in C++	3-0-2	4	25	75
Semester IV					
CS-O4.1	Web Technology	3-0-2	4	25	75
CS-O4.2	Symbolic Logic & Boolean Algebra	3-0-0	4	25	75

MCA IV Semester Elective II	
MCA-404B(E2.1)	Optimization Techniques
MCA-404B(E2.2)	Natural Language Processing
MCA-404B(E2.3)	Machine Learning
MCA-404B(E2.4)	Mobile Application Development
MCA-404B(E2.5)	Neural Networks
MCA-404B(E2.6)	Numerical Techniques
MCA IV Semester Elective IV	
MCA-504B(E4.1)	Deep Learning
MCA-504B(E4.2)	Digital Image Processing
MCA-504B(E4.3)	Mobile Ad-hoc Networks
MCA-504B(E4.4)	Cloud Computing
MCA-504B(E4.5)	Computer and Network Security
MCA IV Semester Elective V	
MCA-505B(E5.1)	Multimedia Systems
MCA-505B(E5.2)	Advanced Web Technology
MCA-505B(E5.3)	Big Data
MCA-505B(E5.4)	Software Testing and Quality Assurance
MCA-505B(E5.5)	Text Mining and Analytics

8. Mode of Examination (as per Manipur University rules):

- (i) Each theory paper in the Semester Examination shall be of three hours duration and shall carry 75 marks.

- (ii) Each practical paper in the Semester Examination shall be of four hours duration to be performed in one day and shall carry 50 marks.
- (iii) Internal assessment of each paper (both theory and practical) shall be based on such works as assignments / practical / seminars / unit tests / minor projects, etc.
- (iv) Regarding major project in the Sixth 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.
- (v) Internal assessment marks awarded should be submitted by the course-in-charge to the University before commencement of the Semester Examination.

9. Minimum Pass Marks and classification of Successful Candidates (as per Manipur University rules):

- 1.0 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 will not be permitted to appear at the Semester Examination in that paper and he will be considered to have scored zero marks in the paper. If a candidate fails to pass in the internal assessment, he 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%.

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 1.0.
- 1(b) A candidate may be provisionally promoted to the Second Year (Third Semester) if he 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.

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 1.0.
- 2(b) A candidate may be provisionally promoted to the Third Year (Fifth Semester) if he has passed all the papers of the Second Year but fails to secure 50% in aggregate of “all the papers of the Second Year”. Such a candidate shall be required to reappear in some of the papers of the Second Year in the corresponding semester so that he may improve the Second Year aggregate marks to 50% or more.
- 2(c) A candidate may be provisionally promoted to the Third Year (Fifth Semester) if he has passed in at least 18 out of 24 papers prescribed in the First and Second Year, provided he has secured 50% marks in the aggregate of all the papers of the First and Second Year (including the marks to the failed papers). Such a candidate shall be required to pass the failed papers of the Second Year and the First Year (if any) in the corresponding semester examination.
- 2(d) A candidate who fails to satisfy the above criteria 2(a), 2(b) and 2(c) for promotion to the Third Year, shall be required to rejoin the course in Second Year (Third Semester), if otherwise eligible in accordance with the University Regulations laid down in this regard.

Third Year:

- 3(a) The minimum marks for passing the Third Year Examination (Fifth and Sixth Semesters taken together) shall be 40% in each theory paper, and 50% in each practical paper, 50% marks in system project-I and system project-2 separately and 50% marks in the aggregate of the papers prescribed in the Fifth Semester along with system project-I and system project-II taken together in addition to the passing criteria prescribed in 1.0.

In case a student fails to submit the project report on system project-II in the Sixth Semester by the date specified by the University, or his work is found unsatisfactory, he should improve upon his work in such a manner as desired by the Department and his result will be announced separately.

- 3(b) If a candidate has secured 50% marks in System Project-II and has failed in some of the papers of the Fifth Semester (including System Project-I) but secured 50% in aggregate of all the papers of the Fifth Semester or, has secured less than 50% marks in the aggregate of the Fifth Semester, he shall be required to reappear in those / some of the papers of the Fifth Semester in a special examination to be held after the Sixth Semester so as to satisfy rule 3(a). All such candidates must submit their request in writing to the University, well in advance.
- 3(c) A candidate who fails to satisfy the criteria laid down in 3(a) or (b) shall be required to complete the course within the next academic session.

10. Award of Certificate & Grade System

- 3(d) No candidate shall be deemed to have satisfied the examination requirements for the award of MCA degree unless he fulfills the criteria for passing the First Year, the Second Year and the Third Year Examinations in accordance with the rules 1(a), 2(a) and 3(a).
- 3(e) Candidate eligible for the award of MCA degree shall be classified on the basis of the marks obtained in the First, the Second, the Third, the Fourth, the Fifth Semester Examination and System Project-II of the Sixth Semester taken together as follows:
- 3(f) 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(g) 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(f).
- 3(h) Second division: All, other than those included in 3(f) and 3(g) above.
- 3(i) 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 MCA degree must pass the final examination within a period of five consecutive academic years from the session of his admission to the First Semester.

9.7 Academic Curriculum for Post Graduate Diploma in Information & Cyber Security (PGDICS)

1. BASIC INFORMATION ABOUT PROGRAMMES

1.1 Introduction

This PG Diploma in Information Security (PGDIS) (*With an exit option of Certificate in Information Security (CIS) after successfully completion of first semester*) programme has been designed to bridge the gap in the awareness and competency required by various categories of people as the users of Internet and various IT enabled services about deeper aspects of Information Security, responsible use and management of IT services. This is a PG Diploma level programme with an exit option of Certificate in Information Security (CIS) after successfully completion of first semester and 32 credits of worth. Student can complete this programme in minimum period of one year or the maximum period of three years.

The programme aims at imparting:

- To spread awareness of information security and protection.
- To provide protection and security to personal data and to build data oriented infrastructure in the companies.
- To raise high professional ethics in the individuals and students towards providing information security.
- To experiment and learn the skills and techniques needed for providing protection and security to our information.

1.2 Programme Codes:

PG Diploma in Information & Cyber Security: **PGDICS**

Certificate in Information Security: **CIS**

1.3 Credit System

The University follows the ‘Credit System’ for its programmes. Each credit is of 30 hours of study comprising all learning activities. Thus, a four-credit course involves 120 study hours. This helps the student to understand the academic effort one has to put into successfully complete a course.

Completion of the Programme requires successful completion of both assignments and the Term-end Examination of each course in the programme. Every course of PGDICS/ CIS programme contains four credits and overall programme credit is 32.

1.4 Duration of the Programme

To fulfill the requirements for acquiring the PG Diploma in Information & Cyber Security (PGDICS), a student may clear all the courses in one year. If a student fails to clear all the requirements of courses in one year, he/she may be permitted to stretch it over a period of another 2 year. In case the student is unable to pass all the courses of this programme in 3 years, he/she has to seek readmission as per 'Readmission' rules and pay the requisite fee.

1.6 Eligibility

- i) B.Sc (Computer Science)/ BCA/ B.Tech (Computer Sc.)/ B.Tech (IT) or its equivalent.

OR

- ii) Bachelor Degree in any discipline or its equivalent from the recognized University/ Institute with 1 year working experience in Computer application/IT

2. PROGRAMMES-OBJECTIVES, STRUCTURE & CONTENTS

2.1 Programme Objectives

The programme PG Diploma in Information & Cyber Security (PGDICS) aims at imparting:

- To spread awareness of information security and protection.
- To provide protection and security to personal data and to build data oriented infrastructure in the companies.
- To raise high professional ethics in the individuals and students towards providing information security.
- To experiment and learn the skills and techniques needed for providing protection and security to our information.

2.2 Programme Structure

The University follows the credit system for these Programmes. Each credit amounts to 30 hours of study comprising all learning activities. Thus, a four credit course includes 120 study hours. To successfully complete PG Diploma in Information & Cyber Security (PGDICS) programme, the student will have to earn 32 credits over a period of 1 year to 3 years by passing all the prescribed courses.

The basic structures of the programmes are as follows:

Semester one:					
Sl. No.	Course Code	Title of the course	Credits	Theory/Practical/Project	No. of Hours
1	PGDICS-11	Introduction to information Security	4	Integrated (Theory & Practical)	120
2	PGDICS-12	Network Security	4	Integrated (Theory & Practical)	120
3	PGDICS-13	Cyber Security	4	Integrated (Theory & Practical)	120
4	PGDICS-14	Policy, Standards and Laws	4	Theory	120
		Total	16		

Semester two:					
Sl. No.	Course Code	Title of the course	Credits	Theory/Practical/Project	No. of Hours
1	PGDICS-21	Application and Business Security Developments	4	Integrated (Theory & Practical)	120
2	PGDICS-22	BCP, DR Planning and Audit	4	Integrated (Theory & Practical)	120
3	PGDICS-23	Digital Forensics	4	Integrated (Theory & Practical)	120
4	PGDICS-24	Project	4	Project	120
		Total	16		

3. CONDUCT OF PRACTICAL SESSIONS

Practicals are essential components of these programmes. The number of available computers restricts the number of participants per Study Centre. It is, therefore, imperative that the allotted practical sessions on computers are put to the best use. For successful completion of the programme, a participant is required to have a minimum of 75% attendance in the practical sessions. A participant will not be eligible to appear in the term-end practical examinations if the percentage of attendance in practical sessions falls below 75%. He/she can, however, appear for the theory papers. In order to make up deficiency of attendance in practical sessions, the student will be required to pay the requisite fee as per directions issued by the University from time to time.

4. EVALUATION

Assessment	Theory	Practical	Project
Weight age for Continuous Evaluation :	10%(Paper:PGDICS11,PGDICS-12,PGDICS-13,PGDICS-21, PGDICS-22,PGDICS-23)30% (Paper PGDICS-14)		
Weightage for Term-end Examination	30%(Paper:PGDICS-11,PGDICS-12,PGDICS-13,PGDICS-21,PGDICS-22,PGDICS-23), 70% (Paper PGDIS-14)	60% (Course PGDIS-11,PGDICS12,PGDIS-13,PGDICS-21, PGDICS-22,PGDIS-23	100% (Paper PGDICS-24) (Report-75%, Viva-25%)

Sl. No.	Course Code	Title of the course	IA	SEM (Theory)	SEM (Practical)	SEM (Project)	Total
1	PGDICS-11	Introduction to information Security	10	30	60		100
2	PGDICS-12	Network Security	10	30	60		100
3	PGDICS-13	Cyber Security	10	30	60		100
4	PGDICS-14	Policy, Standards and Laws	30	70			100
5	PGDICS-21	Application and Business Security Developments	10	30	60		100
6	PGDICS-22	BCP, DR Planning and Audit	10	30	60		100
7	PGDICS-23	Digital Forensics	10	30	60		100
8	PGDICS-24	Project				100	100

Division Percentage of Marks

- 1st Division with Distinction 75% & Above
- 1st Division 60 – 74%
- 2nd Division 50 – 59%
- Failed < 50%

10. ACADEMIC CURRICULUM FOR NIELIT NON-FORMAL COURSES

10.1 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.

- | | |
|---------------------------------|---------------------------------|
| i. User Interface (UI) Designer | ii. Web Designer |
| iii. Web Publication Assistant | iv. Office Automation Assistant |
| v. 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 for the students who opt 6 months after graduation and 1 year for the students after 10+2 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

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	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.

10.2 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 III (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.

Module No.	Course Title	Theory Hrs.	Practical Hrs.
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

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	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.

10.3 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

- a. To acquire the basic knowledge to appreciate the basic multimedia systems, tools, and techniques.
- b. To acquire the basic skills to implement components of Multimedia productions and Web Designing
- c. 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:

Module No.	Module Title	Theory & Practical Hrs.
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.

Examination pattern of MAT-O Level:

1st Semester	Coverage
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:

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

11. DIGITAL LITERACY COURSES

11.1 Awareness Computer Course (ACC)

Objective of ACC: By undergoing the Awareness in Computer Concepts (ACC), one should be able to acquire basic knowledge on computer & its usage by understanding the following skills:

- How to operate the elements of a computer
- Perform basic operations on the computer
- Create, edit and format documents using a word processor
- Access the Internet and finding information of interest
- Register for a web-based e-mail account and using it, Opening of e-mail attachments
- Understanding Financial Literacy
- Digital Literacy to understand the concept of Online Banking
- Understanding the available e-Governance Services

The module on financial literacy will enable the individuals to understand the various financial services and be aware of the various schemes of Government of India

Eligibility: No minimum qualification is required for applying and appearing for the examination in course on Awareness of Computer Concepts (ACC).

Duration: 20 Hours - (Theory: 9 hrs + Practical: 11 hrs)

Examination: NIL

11.2 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.

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.

11.3 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 80 hours, consisting theory, tutorials & Practical

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:

Sl 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

11.4 Course on Computer Concepts Plus (CCC+)

The course is a certificate level course, with an aim to equip the workforce entering into / working in government sector with the vital skill set, that is, necessary to cope up with the ever-changing scenario in IT sphere. The course is designed in such a manner, so that, it not only educate an individual with the basic skill set but also enhances the ability of individual to easily grasp the new changes in the dynamic IT field. The course is aimed at skill development in masses, students, employees in professional sectors at middle level. The course may also be considered as an ideal course for re-skilling of an individual and technological advancement. After going through the course, an individual is expected to be equipped with not only the office automation skills but also with the understanding of the latest technologies and e-Gov applications.

The module on financial literacy will enable the individuals to understand the various financial services and be aware of the various schemes of Government of India.

Eligibility: X Pass

Duration: 126 Hours. (21 days @ 6 hours/day – Full Time or 42 Days @ 3 hours/day – Part Time)

Examination: Examination for the CCC+ is conducted by the NIELIT online 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:

Sl No.	Chapter	Theory Hours	Tutorial Hours	Practical Hour
1	Introduction to computer & Basic concepts	2	2	4
2	Operating System	4	8	12
3	Word Processing	4	8	12
4	Spreadsheets	4	8	12
5	Presentations	4	8	12
6	Database Management System	4	8	12
7	Cyber Security	5	5	10
8	PC Maintenance & Troubleshooting	4	8	12
9	Networking & Troubleshooting	4	8	12
10	Latest trends in IECT & e-Governance	6	6	12
11	Application of Digital Financial Services	1	1	2
12	Soft Skills	7	7	14
Total:		49	77	126

11.5 Expert Computer Concepts (ECC)

The aim of ECC is to assist a prospective entrant into a professional stream with attaining the necessary skills and knowledge needed to complete in today's competitive scenario. The focus of the course is divided amongst the following four dimensions:

- Understanding Computer Hardware, Software and its maintenance
- Office Automation – Disposal of daily routine jobs using Office Automation Tools
- Exploring the wide world of Internet and latest technologies in online services and e-Gov applications
- Personality development with communication skills

The course emphasizes on skill development and latest advancements in the technological world that will help an individual to build up and upgrade skills thereby closing the technological gaps.

The module on financial literacy will enable the individuals to understand the various financial services and be aware of the various schemes of Government of India.

Eligibility: XII Pass

Duration: 200 hrs

Examination: Examination for the ECC is conducted by the NIELIT online 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:

Sl No.	Chapter	Theory Hours	Tutorial Hours	Practical Hour
1	Introduction to computer & Basic concepts	3	6	9
2	Operating System	3	6	9
3	Basic Computer Hardware	5	10	15
4	Word Processing	5	10	15
5	Spreadsheets	5	10	15
6	Presentations	5	10	15
7	Database Management System	4	8	12
8	Cyber Security	6	6	16
9	PC Maintenance, Security & Troubleshooting	5	10	15
10	Networking & Troubleshooting	4	8	12
11	Latest trends in IECT & e-Governance	4	9	13
12	Application of Digital Financial Services	1	1	2
13	Electronic mail – a detailed view	4	8	12
14	Introduction to Multimedia	5	9	14
15	HTML Programming basics	4	8	12
16	Soft Skills	9	9	18
Total:		72	128	200

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

12.1 Solar PV Installer (Suryamitra)

Course Duration: 300 hours

Eligibility: 10th pass + ITI / Diploma

NSQF Level: 4

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.

12.2 Goods Services Tax (GST) Accounts Assistant

Course Duration: 100 hours

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

NSQF Level: 4

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

12.3 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

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.

12.4 LED Light Repair Technician

Course Duration: 200 hours

Eligibility: ITI/Diploma (Electrical/Electronics)

NSQF Level: 4

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

12.5 CCTV Installation Technician

Course Duration: 200 hours

Eligibility: 12th Pass

NSQF Level: 4

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

12.6 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

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.

12.7 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

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.

12.8 Field Technician – UPS and Inverter

Course Duration: 240 hours

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

NSQF Level: 4

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).

12.9 Field Technician – Other Home Appliances

Course Duration: 300 hours

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

NSQF Level: 4

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.

12.10 Smartphone Repair Technician

Course Duration: 200 hours

Eligibility: 10th pass with one year experience

NSQF Level: 4

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.

12.11 Solar Panel Installation Technician

Course Duration: 200 hours

Eligibility: 10th Pass

NSQF Level: 4

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.

13. 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	Neoteric 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 Churchandpur
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

14. HOSTEL FACILITIES

14.1 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

14.2 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

15. WORKING HOURS AND HOLIDAY

NIELIT Imphal and its Extension Centre 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.

16. EXTRACURRICULAR ACTIVITIES

NIELIT Imphal organizes various events for students such as annual sports meet, Annual Fresher's meet and annual industrial tour etc. The students of the Centre participated in various Inter College Sports events under Manipur University as well as All India Inter university Sports events representing M.U. Students are also allow to join yoga classes in the morning or in the evening. The Institute engaged well qualified trainer of yoga classes. One of the student of the Institute took medal in international yoga competition held at Indonesia in the year 2019. The Institute has facilities such as indoor badminton hall, indoor basketball hall, yoga classroom etc.

Not only in sports events, students of the Institute 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 during Fresher's meet programme and foundation day celebration.



Annual Sports meet 2019 of NIELIT Imphal & its Ext. Centres



17. NIELIT CHURACHANDPUR EXT. CENTRE



Churachandpur Extension Centre of NIELIT Imphal 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 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 7461 students.

Location and Connectivity

The Centre was previously located at the temporary location at Hill Town and since December 2019 it has been shifted to the permanent campus which is of 4.13 acres of land provided by Govt. of Manipur and is located at Tuibong, M.C. Mary Kom ring road, Churachandpur about 800 m from the National Highway and 1.5 Km from district main bus stand.



The campus is surrounded by the Govt. offices like Post Office, Fire Department, District Court, Deputy Commissioner’s office, District magistrate etc.



Infrastructure & Facilities

The Institute have the infrastructure like Academic Block, Administrative Block, Girl's Hostel-cum-resident Faculty Quarter, Cafeteria, Car Parking, Playground etc.

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 to LAN through a server and they are regularly upgraded to the latest software.



Institute Campus

- (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.



Computer & Electronic Lab

- (iii) Two (2) Classroom of capacity 50 and 30 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 160 KVA & 63 KVA and 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 (100 Mbps from BSNL and 10 Mbps from a private ISP) and these internet facility is extended to all the students of the institute.
- (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.
- (ix) The Institute has a dedicated server to control the network of the Institute.

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
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
2	PGDCA	3 Years degree course in any discipline	1 Year
3	PGDICS	B.Sc (Computer Science)/ BCA/ B.Tech (Computer Sc.)/ B.Tech (IT) or its equivalent. OR Bachelor Degree in any discipline or its equivalent from the recognized University/Institute with 1 year working experience in Computer application/IT	1 Year

Sl	Name of the Course	Eligibility	Duration	NSQF Level
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	12th 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	Assembly & Maintenance of PC	10th Pass with basic knowledge of computer	240 Hrs	3
7	Certified Graphic Designer	12th Pass	80 Hrs	5
PMKVY COURSES				
1	Solar PV Installer - Electrical	10th pass + ITI / Diploma (Electrical, Electronics)	240 Hrs	4
2	Field Technician – Computing and Peripherals	12th Standard passed	455 Hrs	4
3	Field Technician – Networking and Storage	12th Standard passed	450 Hrs	4
4	Editor	Graduate	280 Hrs	5
5	Optical Fiber Technician	Class VIII	340 Hrs	4
6	Handset Repair Engineer (Level II)	12th Standard passed	340 Hrs	4

18. NIELIT SENAPATI EXT. 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 4800 students.

Location and Connectivity

The Centre is presently located at Broadway Complex in 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, three (3) well-furnished computer Labs with a total capacity of 100 Computers, Electronics Lab, Hardware Lab, library and Servicing Lab. The Girl's hostel in the campus is also under construction.

Infrastructure

At present the Centre has the following facilities:

- (i) Three (3) Computer Labs which has a total of 50 branded computers. All the labs are well-furnished and equipped with Projection System, Whiteboard and modern 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.

Extra Co-curricular activities :

NIELIT SENAPATI EXTENSION CENTRE participated in the Cleanliness drive organized by District Administration Senapati. NIELIT officials organized Awareness Programmes on the harmful effects of plastic to the neighboring localities. A Cleanliness Drive was conducted in and around the Senapati Main Bazar.

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

Sl	Name of the Course	Eligibility	Duration
SHORT TERM CERTIFICATE COURSES			
1	Advanced Diploma in Computer Application, Accounting & Publishing	10+2 pass	200 hrs
2	Certification Course in Data Entry and Office Automation	10+2 pass	135 hrs

3	Desktop Publishing (DTP)	Knowledge of Basic Computer Concept and 10th pass	2 Months
4	Certified Course in Web Designing	10 +2 pass with basic knowledge of computer	2 Months
5	Course on Computer Concepts (CCC)	Knowledge of reading and writing in English.	2 Months
6	Assembly & Maintenance of PC	10+2 pass with basic knowledge of computer	240 hrs
7	Financial accounting using TALLY ERP 9.0	10+2 pass with basic knowledge of computer	2 Months
8	Certified Multimedia Developer	10+2 pass or ITI or Diploma or Diploma under going	200 hrs
9	CCTV Installation Technician	10+2 pass	200 hrs
10	Advanced Diploma in Java Enterprise edition (JEE)	BE/B.Tech/Diploma/ Graduate in IT	420 hrs
11	Certificate course in Mobile Repairing & maintenance	10th Standard	80 hrs
12	Certificate course in C programming	Basic Knowledge of computer	80 hrs
13	Certificate Course in PC Hardware & Networking	10+2 pass with basic knowledge of computer	80 hrs

19. HOW TO APPLY FOR ADMISSION

Interested students can apply for admission through any of 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 for online application form submission along with Original Certificates & documents as stated above.

1. NIELIT Imphal, Akampat, Imphal East, Manipur - 795001
2. NIELIT Churachandpur Ext. Centre, MC Marry Kom Ring Road, Tuibong, Churachandpur - 795128
3. NIELIT Senapati Ext. Centre, Broadway Complex, Senapati - 795106

20. NIELIT Achievers

Based on the academic performance in Nov-2018 and May-2019 examinations of the students Meritorious awards were distributed on the 31st Foundation Day Celebration (1st October 2019) to the following students of NIELIT Imphal:

Sl. No.	Course & Exam Year	Position/Percentage of Mark	Name of the students	Award (in Rs)
1	MCA (Jun-2018)	1st Position (88.7%) Gold Medalist in Manipur University Examination	Maisang Kamei Salice D/o Maisang Kamei Paul Than, Sangai Porou	20000
2	DCSE 1st Year (Nov-2018)	82.7	Moirangthem Henary Singh, S/o Moirangthem Hemanta Singh, Kakching	1500
3	DCSE 3rd Year (May-2019)	82.5	Chongtham Dhanajeet Singh, S/o Chongtham Mohendra Singh, Mayang Imphal	1500
4	BCA 2nd Year (May 2019)	87.6	Salam Vivek S/o S Nongthon Singh Phone no. 8258967198	1500
5	BCA 3rd Year (May-2019)	82.2	Phuritsabam Priyobata Meitei, S/o Phuritsabam Ramcharan Meitei, Sangaitheh Awang Leikai	1500
6		80.5	Thingbajam Jessi Khuman, S/o Th. Jekeshore, Khurai	1500
7		80.6	M.c Teresa, D/o Mayanglambam Ibungotomba, Khurai Konsam Leikai	1500
8		81.3	Nandita Louriyam, D/o Louriyam Jayantamani Singh, Khurai	1500
9	MCA 2nd Year (Nov-2018)	85%	Wairokpam Leilen Chenglei, D/o Wairokpam Devabratta Meitei, Wangkhei Thangapat	1500
10		81.5%	Sagolsem Surjabala, D/o Sagolsem Shyamchandra, Mongjam Mayai Leikai, Mantripukhri	1500
11	MCA 3rd Year (May-2019)	80.9	khaidem sasibala chanu, D/o Khaidem Mangi Meitei, Khurai Konsam Leik	1500



Felicitation of **Miss Gangmei Gaigangmeilu** (DCSE 6th Semester student of NIELIT Imphal), by Executive Director, NIELIT Imphal who secure Gold Medal in the 7th International Yoga Championship, 2020 held at Bali, Indonesia,



Maisang Kamei Salice
D/o Shri Maisang Kamei Paul Than &
Smt. Maisang Kamei Sangita, of Kwakeithel
Mayaikoibi Gold Medalist of MCA
Exam-2018