Training Partners Handbook NIELIT's NSQF Aligned Courses

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National Institute of Electronics and Information Technology (Ministry of Electronics and Information Technology, GoI) Web Site: www.nielit.gov.in For Contact details: Annexure VII

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1. INTRODUCTION

The purpose of the handbook is to provide guidelines that may be helpful to the Institute applying for accreditation towards running NSQF Aligned Courses of NIELIT.

2. OBJECTIVES OF THE SCHEME

In order to facilitate mobility from vocational to general education, and vice-versa, a qualification framework for India i.e. the National Skill Qualification Framework (NSQF) came into effect in pursuance of the decision of the Cabinet Committee on Skill Development in its meeting held on 19th December 2013. NSQF has been notified by Government of India vide Gazette notification number 6/8/2013 dated 27th December, 2013.

The level wise aligned Qualification files of NIELIT is as under:

NSQF Level	8	7	6	5	4	3	2
No of QFs	7	7	13	24	14	9	1

3. LIST OF NSQF ALIGNED COURSES PRESENTLY AVAILABLE FOR ACCREDITATION IS GIVEN AT ANNEXURE 'I'.

4. CATEGORIES OF INSTITUTES

NIELIT accreditation for conducting NSQF aligned courses is a Quality Assurance Scheme for Skilling in Electronics and Information Technology and providing better employment opportunity. NIELIT will consider institutes in the following categories:

i) Category- 'A'

Valid Existing Training Partners (ETP) of NIELIT i.e. Accredited Training Centres (NIELIT IT, CHM courses and ESDM TPs) and other associated and NIELIT TPs (like NCPUL etc.).

ii) Category- 'B'

Government / AICTE approved Polytechnics & Engineering colleges / Institutes running BCA / BSc (CS /IT/Electronics) or higher courses.

iii) Category-'C'

New Training Partners who do not fall under any of above mentioned categories.

5. ACCREDITATION FEES

The institutes, which are interested in accreditation for the courses mentioned at **Annexure I,** have to submit their application **online at web portal www.nielit.gov.in** and have to upload the relevant documents to complete the application.

The category wise accreditation fee is as given below:

Category	Course Accreditation Fee per course (in Rs.)	Inspection Fee (in Rs.)	Documents required to be submitted to respective NIELIT centres along with online application form (attested by the authorized signatory of the institute)
A	10,000/- + GST (as applicable)	Not Applicable	 a) Copy of the Accreditation letter issued by NIELIT b) Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution.
В	10,000/- + GST (as applicable)	Not Applicable	 a) Affiliation letter issued by the respective approving body of the institution b) Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution.
C	10,000/- + GST (as applicable)	20,000/- + GST (as applicable) per location per visit	 a) Documents with regard to registration and the legal status of the institute (registration certificate, bye-laws, rules and regulations, MoA, board resolutions etc.) b) Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution. c) Documents with regard to premises (lease agreement / ownership deed) d) Corporate structure / details of the institute (list of proprietor / partners / Directors/Trustee, etc.) e) PAN Card and GST Certificate of the Institute f) List of books and magazines available at the institute. g) Photograph and Unique Identification document of the faculty h) Signature of the authorized signatory of the institute

Note:

- a) All the payment should be made online.
- b) Fee once paid is not refundable under any circumstances.

6. ELIGIBILITY OF THE INSTITUTIONS FOR CATEGORY 'C'

- Processing of Application: There will be partial online scrutiny of the application by validation checks, as per the norms of accreditation, at the time of submission of the online application. Minimum criteria for submission of the application are mandatory. The application will be on <u>self certification basis</u> by the authorised signatory of the institute.
 - a) The institute applying for affiliation must have the experience of running the course in the related field for at least 6 months.
 - b) **Legal Status**: The institute should be registered under the categories:
 - ➤ <u>PROPRIETORSHIP</u> <u>CONCERN</u>: An institute with legal status "Proprietorship" can be registered under the following:
 - (i) Registration/ Certificate from any Government authority as given for the Industrial / Business units such as Shop & Establishment Act.
 - (ii) Registration with Registrar / Sub-Registrar.
 - (iii) Registration with GST Tax or any other tax authority.

<u>Documents required for establishing the necessary links of the ownership of the proprietorship concern.</u>

- Any one of the registration certificate as mentioned above. (In case document does not show the name of the proprietor, then an additional document which shows the name of the proprietor is required (such as certificate from the bank)).
- 2) The institute has to upload the authority letter from proprietor indicating the details of the authorized person with the authority / powers given to him
- ➤ <u>PARTNERSHIP:</u> An institute with legal status Partnership firm has to submit the following:
- (i) Registered Partnership Deed
- (ii) Registration Certificate from Registrar of firms with the documents showing the names of the partners.
- (iii) The institute has to upload the authority letter from partners indicating the details of the authorized person with the authority / powers given to him
- > <u>SOCIETY / NGO</u>: An institute with legal status "Society" has to submit the following documents
- (i) Certificate from the Registrar of Society
- (ii) Rules and Regulations / MoA
- (iii) Resolution to nominate the authorised person (as per the terms of the Rules & Regulations/Bye Laws/MoA specifically mentioning that the authorized person has been authorized to deal with NIELIT including applying for accreditation).

- > TRUST: An institute with legal status "Trust" has to submit the following documents
- (i) Trust Deed
- (ii) Certificate of Registration of Trust
- (iii) Resolution to nominate the authorized person (as per the terms of the Trust Deed / Settlement Deed specifically mentioning that the authorized person has been authorised to deal with NIELIT including applying for accreditation)
- ➤ <u>COMPANY:</u> An institute with legal status "Company" has to submit the following documents:
- (i) Certificate of Incorporation
- (ii) Memorandum of Association
- (iii) Board Resolution specifically authorizing the authorized person to deal with NIELIT including applying for accreditation.
- The owner or the person appointed by the management can be described as Owner/ Authorised Person from the Management, such as in the case of a company, a Director having authority from the Board or in the case of a Society a person so defined under the Rules / Bye Laws / MoA with a resolution as per the Rules/ Bye Laws/ MoA. If the management wants to change any such Authorised Person, it should be intimated to NIELIT in accordance with their rules, if any.
- That the Owner/ Authorised person from the Management is the person who
 is working in the capacity and signing in the capacity as the owner or the
 Management and all the declarations as required by the NIELIT at the time of
 the accrediting or any other important documents or applications are required
 to be signed by him.
- On the other hand, there can be another person who is not the owner but is running the day to day business of the institute since the owner or the management may or may not be in a position to do day to day business of the institute. The person be called the authorized employee of the institute to deal with NIELIT. His signatures and other particulars like his position should be taken from the institute. This person can be changed at any time since he is only an employee but whenever this person is changed, NIELIT should be communicated with the signatures and other particulars of this person.
- c) **Premises**: The institute must have own premises, if hired, the lease should be at least for a minimum period of eleven months (minimum 6 months remaining at the time of applying) with a reasonable assurance of continuity;
- d) **Space**: Minimum carpet area should be more than 90 sq. metres to cater to at least one classroom to seat 25 students, well equipped laboratory (as per course requirement) for hands on training, reception area / admin area and clean and hygienic washrooms preferably separate for boys and girls and electricity connection with power backup solutions to take care of power outages.

7. OTHER REQUIREMENTS FOR ALL CATEGORIES OF INSTITUTIONS:

- a) **Software and Hardware**: The institute should comply with the norms on software & hardware as laid down in the Annexure III and IV. All the Software must be licensed; Open Source Software is also accepted.
- b) **Faculty**: The institute should comply with the norms on faculty as laid down in the Annexure V.
- c) Furniture for all the classrooms/labs/A-V room/library/ staff rooms etc.
- d) Fee charged should be reasonable, justifiable and commensurate with infrastructure and facilities offered
- e) Batch size should be proper and must be as per available class / lab size and other infrastructure & facilities available.
- f) Sustainability of the institution financially, technically, infrastructure-wise and growth-wise.
- g) Student administration should be of high order.
- h) The institute should plan periodic interactions with the industry for the placement of the candidates
- i) The institute must also plan a comprehensive record keeping of admission, registration, aptitude test, selection norms, candidates selected, attendance, internal evaluation, Project work etc.

8. PROCEDURE FOR ACCREDITATION:

(I) Category 'A' and 'B'

- i. After receiving the application for accreditations, a preliminary screening will be done to ensure eligibility for accreditation and necessary documents attached. Additional information may be asked for, if necessary, from the institute vide online deficiency letter / email. The total time period given to the institute for compliance of the **shortcomings is 30 days** (from the date of receiving of the initial application on the NIELIT web portal). Incomplete forms and inability to supply additional information may lead to rejection of the application.
- ii. The institutes falling under this category are exempted for selected courses from the Inspection committee visit at the institute. If the institutes applies for the courses other than exempted courses mentioned in the Annexure VI, an inspection committee visit will be done at the institute and the inspection fee as mentioned in point 5 above will be applicable to the institute.

(II) Category 'C'

i. The application received along with the uploaded documents will be scrutinized at NIELIT and additional information may be asked for, if required, from the institute vide online deficiency letter / email. The total time period to be given to the institute for compliance of the shortcomings will be 30 days (from the date of receiving of the initial application on the NIELIT web portal). If the institute does not comply the

deficiencies in a time period of 30 days, then, the institute will be issued 1st reminder. If the institute does not reply within 15 days from the date of 1st reminder the institute will be issued 2nd reminder. If the institute still does not respond within 10 days from the date of 2nd reminder, the institute will be issued 3rd and final reminder to submit the documents within 5 days from the date of 3rd reminder. If the institute does not respond to the 3rd reminder, the application of the institute will be rejected without any further communication and the Letter of Premature Closure of the case due to non-submission of the documents will be sent to the institute. Such cases will be treated as 'CLOSED' and all fees will be forfeited and no further communication in this regard will be entertained.

- ii. On completion of the documents, the eligible institutes of 'Category C' will be informed by letter / email that their documentation is over and an Inspection Team constituted by the **NIELIT xxxxx**, will visit the institute any day **within one month** from the date of intimation of completion of documents and will verify the information provided by the institute in the online application for accreditation for NSQF aligned courses, according to the laid down criteria for accreditation.
- iii. The Screening Committee will check that all criteria laid down above are fulfilled. The committee will examine all of the following:
 - Compliance of all norms set out above.
 - Actual competence of the teaching staff, over and above the paper qualifications submitted
 - Progress of students
 - Teaching methodologies
 - Management attitudes, plans, approach etc.
 - Past results
 - Student feedback on usefulness teaching standards, criticisms, praise etc.
 - Placement of trainees
- iv. On receipt of the satisfactory report from the Inspection committee, the application will be further processed for affiliation and will be issued letter of Accreditation after approval of competent authority.
- v. Affiliation for NSQF courses is granted to the institute at the specified location only. Affiliation given in the name of an institute is not automatically applicable to its branches/centers/head offices/ franchises/licensees etc. Each institute is required to have independent accreditation for each course.
- vi. A sudden and uninformed visit to any institute may be made to verify the self certification or to ascertain the quality of training. Institute, if not found suitable after sudden and uninformed visit by the Inspection team, will be given the chance to improve in lacking area as mentioned by Inspection Team within o2 Week Time. If institute fails to do so, its accreditation will be cancelled and payment made by the institute would be forfeited. However, for all such cases the concerned institute has to pay Inspection fees again.

vii. Even after the 2nd inspection, if the institute is not fulfilling the norms of course accreditation, the application of the institute would be rejected & all fee will be forfeited. Such institute shall not be allowed for fresh application for one year.

Note:

- A. The eligible institutions will be issued letter of Accreditation after approval of competent authority of respective NIELIT Centre preferably within 30 days after all documentation and inspection process, if any.
- B. Accreditation would be valid for **THREE YEARS** only or till the validity of the Qualification File (Course) listing on NQR (National Qualification Register at website: www.ngr.gov.in), whichever is earlier.

9. EXAMINATION SCHEME AND SCHEDULE:

NIELIT will conduct periodic examinations for NSQF aligned courses as per predefined schedules. Examination of candidates may be conducted at the places different from training locations as decided by NIELIT from time to time. Periodicity of exams is proposed as under:

- i. For courses with duration 80 hrs to 200 hrs : 6 times in a year & will be conducted along with DLC exams.
- ii. For courses with duration 201 hrs to 300 hrs : 4 times in a year & will be conducted along with DLC exams.
- iii. For courses with duration 301 hrs & above : 2 times in a year & will be conducted along with O/A Level exams.

Note: Exam fee details available at www.nielit.gov.in.

10. EVALUATION & CERTIFICATION:

- a. Evaluation will be online or as per mentioned in Qualification File.
- b. Online Digital e-Certificate will be issued to the successful candidates as being given for DLC such as CCC and the same will be linked with DigiLocker.

11. CHANGE IN CORPORATE STRUCTURE

An institute conducting NSQF aligned courses of NIELIT, should intimate changes preferably two months in advance, in its corporate structure or change of address etc for premises change. For any such changes, the institute will apply online using its login credentials.

a) Change of Premises:

The institute has to apply online through the web portal (or as per procedure specified) and has to upload/ submit the following documents along with the online payment of Rs. 20,000/- + GST (as applicable) per visit, as fee for change of premises:

- Documents with regard to premises (lease agreement / ownership deed).
- Revised Registration certificate in the new premises (if the registered address and the address of training centre is same)
- Board resolution / No Objection Certificate (in case of Partnership Firm) with regard to the change of premises of the institute.

Such change will be approved by the **NIELIT** for the purpose of continuing the accreditation after a selection committee visits the institute and endorses the changes as per valid documents submitted by the institute. In such cases, the selection committee needs to verify that facility available at earlier premises has been shifted to new premises and the new premises is meeting the accreditation criteria.

b) **Change of Management**:

The institute has to apply online through the web portal (or as per procedure specified) and has to upload/ submit the following documents along with the payment of Rs. 5,000/- + GST (as applicable) per course, as fee for change of management:

- Corporate structure / details of the institute (list of proprietor / partners / directors, etc.).
- In case of a company, the institute has to submit the Form 32, while in case of partnership firm, the Registration Certificate of the institute with Form A and Form B.
- Board resolution with regard to the change of management.

Since change of management is simply a change in the administrative structure of institute, appraisal of the institute by an Inspection Team shall be waived-off.

c) Change of Name of Institute:

The institute has to apply online through the web portal (or as per procedure specified) and has to upload/ submit the following documents along with the online payment of Rs. 5,000/- + GST (as applicable) per course, as fee for change of name:

- Revised Registration Certificate in the new name
- Board resolution / No Objection Certificate (in case of Partnership Firm) with regard to the change of name of the institute.

Since change of name is simply a redesignation, appraisal of the institute by a Inspection Team shall be waived-off.

d) Change of Ownership:

Change in the legal status on account of change of ownership is not permitted. As such, affiliation shall be withdrawn in case of change of ownership.

12. KEY RESPONSIBILITIES OF AN ACCREDITATED INSTITUTE

- i. An accredited institute can initiate admission process and classes for the NSQF Aligned courses in consultation with respective **NIELIT xxxxx**.
- ii. Placement of candidate is an important part of the scheme. Hence, the interaction with the concerned Industries in the local areas is very important for the placement

of the successful candidates. The training partners are expected to ensure maximum employment of their successful candidates. Those training partners which places maximum number of candidates may be given the 'Certificate of Appreciation' by the respective NIELIT Centre.

13. GRIEVANCES AND REPRESENTATION, IF ANY

In case the applicant institute is not satisfied with the decision of NIELIT regarding its accreditation, or has some grievance towards the process of accreditation, the head of the institute may represent before the **Executive Director / Director / Director Incharge, NIELIT xxxxx** within a period of 30 days of the decision.

14. GENERAL TERMS AND CONDITIONS

- i. Maximum number of courses offered for Accreditation per Institute are initially limited 10.
- ii. There will be student feedback mechanism to monitor the performance of Training Partners. Feedback forms should be filled by the students at the end of each module. Further, the feedback may be taken at the time of examination or during the surprise visits made to the Training Partner location or at anytime as decided by NIELIT.
- iii. NIELIT will do the inspection of TPs on random basis to monitor the performance and to ensure the training quality.
- iv. Training of Trainers programmes will be organized by Nodal NIELIT Centres (for respective NSQF aligned courses) based on the request from Training Partners. The financials for the same will be decided by the respective NIELIT Centre and the same has to be paid by the Accredited Training Partner additionally.
- v. Performance of the Training Partners will be considered for renewal and awarding accreditation to the new courses.
- vi. TPs/Accreditation Centres are not authorised to outsource the training to a third party or to conduct at any other location other than the registered training location
- vii. It is mandatory for TPs to conduct course for the duration specified in the Course and TP has to submit actual training hours with candidate's biometric attendance.
- viii. Declaration from TPs/ Accreditation Centres are required regarding students qualification, attendance, total training hours completed etc.
- ix. Smart class room with VC facility for on line classes and interaction
- x. Training partners should have tie ups with industries for placement support

ANNEXURE I

LIST OF NSQF ALIGNED COURSES OF NIELIT AVAILABLE FOR ACCREDITATION

S No	Course Code	Course Name	Level	Duration in hours
1	NIELIT/EM/L6/002	Post Diploma in Electronics Product Design	6	1598
2	NIELIT/IT/L5/008	Advance Diploma in Hardware ,Networking & Information Security [ADHNS]	5	1220
3	NIELIT/IT/L6/012	Networking Specialist (NS)	6	780
4	NIELIT/ES/L4/003	Repair & Maintenance of Power Supply, Inverter & UPS	4	350
5	NIELIT/IT/L4/013	Advance Diploma in Computer Application Accounting and Publishing	4	200
6	NIELIT/ES/L4/006	Certificate course in Arduino based Embedded System Design	4	300
7	NIELIT/IT/L6/001	Certified Data Scientist	6	240
8	NIELIT/ES/L6/023	Certificate course in Reliability	6	240
9	NIELIT/IT/L7/031	Advanced Diploma in Bigdata Analytics	7	480
10	NIELIT/IT/L6/024	Certificate Course in Cyber Forensic	6	500
11	NIELIT/ES/2/13	PG Diploma in IOT	7	470
12	NIELIT/IT/L5/007	Certified Android Apps Developer	5	100
13	NIELIT/ES/L4/004	Solar Power Installation, Operation and Maintenance	4	80
14	NIELIT/IT/L5/011	Certificate Course in Linux, Apache, MySQL and PHP	5	80
15	NIELIT/IT/L5/017	Certified Multimedia Developer	5	200
16	NIELIT/IT/L7/019	Advance Course in Web Application Development using LAMP.	7	240
17	NIELIT/IT/L6/022	Advanced Diploma in Java Enterprise edition (JEE)	6	420
18	NIELIT/IT/L4/026	Certification Course in Data Entry and Office Automation.	4	135
19	NIELIT/IT/L6/028	Advanced Diploma in Android Application Development	6	420
20	NIELIT/ES/L4/007	Diploma in Installation & Repair of Consumer Electronics Products	4	350
21	NIELIT/IT/L3/009	Certified Course in Web Designing	3	80
22	NIELIT/IT/L3/010	Certificate course in Office Automation(CCOA)	3	80
23	NIELIT/ES/L ₃ /005	Certificate Course in PC Assembly & Maintenance	3	80
24	NIELIT/IT/L5/014	Certified Graphic Designer	5	80

NIELIT/IT/L5/016 Certified 2D Animator 5 80 NIELIT/RM/2/46 Repair & Maintenance of ECG and ICCU equipments Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine) NIELIT/RM/4/48 Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine) NIELIT/RM/3/47 Repair & Maintenance of Dental Equipment 3 300 NIELIT/RM/3/47 Repair & Maintenance of Personal 240 Computer 3 NIELIT/RE/2/89 Solar-LED Lighting Product (Design and Manufacturing) NIELIT/RA/4/43 Installation & Maintenance of Photocopiers and Printers NIELIT/RA/4/43 Installation & Maintenance of Photocopiers and Printers NIELIT/RA/5/44 Certificate in Robotic Programming and Maintenance NIELIT/RA/5/44 Certificate Course on Printed Circuit Board Design , Analysis and Manufacturing Techniques NIELIT/EM/L4/014 Certificate Course on Printed Circuit Board Design , Analysis and Manufacturing Techniques NIELIT/ES/L5/024 Certificate Course in VLSI Design 5 80 NIELIT/IT/L6/029 Certificate Course in System Administration Expert 5 80 NIELIT/IT/L5/032 Certificate Course in System Administration Using Linux 84 NIELIT/IT/L6/021 Certificate Course in System Administration Using Unix 44 NIELIT/IT/L6/021 Advanced Diploma in .Net Technology 6 420	25	NIELIT/IT/L5/015	Certified Audio Visual Designer	5	80
equipments Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine) NIELIT/RM/3/47 Repair & Maintenance of Dental Equipment Repair & Maintenance of Dental Equipment Repair & Maintenance of Dental Equipment Repair & Maintenance of Personal Computer Roller Lighting Product (Design and Manufacturing) RIELIT/RE/2/89 NIELIT/RA/4/43 Installation & Maintenance of Photocopiers and Printers Roller Lighting Product (Design and Manufacturing) RISTAL REPAIR	26	NIELIT/IT/L5/016	Certified 2D Animator	5	80
28NIELIT/RM/4/48Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine)330029NIELIT/RM/3/47Repair & Maintenance of Dental Equipment330030NIELIT/HW/4/90Assembly & Maintenance of Personal Computer324031NIELIT/RE/2/89Solar-LED Lighting Product (Design and Manufacturing)435032NIELIT/RA/4/43Installation & Maintenance of Photocopiers and Printers220033NL/M/L4/C076ESM - 1 Electronic Production Technician436034NIELIT/RA/5/44Certificate in Robotic Programming and Maintenance432535NIELIT/EM/L5/007ESD -1 Electronics Product Design Support Engineer543236NIELIT/EM/L4/014Certificate Course on Printed Circuit Board Design , Analysis and Manufacturing Techniques425037NIELIT/ES/L5/024Certificate Course in VLSI Design58038NIELIT/IT/L6/029Certificate Course in VLSI Design58040NIELIT/IT/L5/030Certificate Course in DSP using MATLAB78040NIELIT/IT/L5/032Certificate Course in Embedded System Design using ARM/Cortex Microcontroller58041NIELIT/IT/L5/032Certificate Course in System Administration using Linux58043NIELIT/IT/L6/021Certificate Course in System Administration using Unix680	27	NIELIT/RM/2/46	·	3	300
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Manufacturing) 32 NIELIT/RA/4/43 Installation & Maintenance of Photocopiers and Printers 33 NL/M/L4/Co76 ESM - 1 Electronic Production Technician 4 360 34 NIELIT/RA/5/44 Certificate in Robotic Programming and Maintenance ESD - 1 Electronics Product Design Support Engineer	30	NIELIT/HW/4/90	•	3	240
and Printers 33 NL/M/L4/Co76 ESM - 1 Electronic Production Technician 4 360 34 NIELIT/RA/5/44 Certificate in Robotic Programming and Maintenance 35 NIELIT/EM/L5/007 ESD - 1 Electronics Product Design Support Engineer 36 NIELIT/EM/L4/014 Certificate Course on Printed Circuit Board Design ,Analysis and Manufacturing Techniques 37 NIELIT/ES/L5/024 Certificate Course in VLSI Design 5 80 38 NIELIT/IT/L6/029 Certified Cloud Computing and Virtualization Expert 5 80 39 NIELIT/IT/L5/030 Certificate Course in DSP using MATLAB 7 80 40 NIELIT/ES/L5/028 Certificate Course in Embedded System 5 80 41 NIELIT/IT/L5/032 Certificate Course in CAD using CREO 5 100 42 NIELIT/IT/L5/020 Certificate Course in System Administration using Linux 6 80 43 NIELIT/IT/L6/021 Certificate Course in System Administration using Unix 6 80	31	NIELIT/RE/2/89		4	350
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Maintenance Solution Section Se	33	NL/M/L4/Co76	ESM - 1 Electronic Production Technician	4	360
Engineer Certificate Course on Printed Circuit Board Design ,Analysis and Manufacturing Techniques NIELIT/ES/L5/024 Certificate Course in VLSI Design NIELIT/IT/L6/029 Certificate Course in DSP using MATLAB OBJECT NIELIT/IT/L5/030 Certificate Course in Embedded System Design using ARM/Cortex Microcontroller NIELIT/IT/L5/032 Certificate Course in CAD using CREO NIELIT/IT/L5/020 Certificate Course in System Administration Using Linux NIELIT/IT/L6/021 Certificate Course in System Administration Using Unix NIELIT/IT/L6/021 Certificate Course in System Administration Using Unix	34	NIELIT/RA/5/44	3	4	325
Design ,Analysis and Manufacturing Techniques 37 NIELIT/ES/L5/024 Certificate Course in VLSI Design 38 NIELIT/IT/L6/029 Certified Cloud Computing and Virtualization Expert 39 NIELIT/IT/L7/030 Certificate Course in DSP using MATLAB 40 NIELIT/ES/L5/028 Certificate Course in Embedded System Design using ARM/Cortex Microcontroller 41 NIELIT/IT/L5/032 Certificate course in CAD using CREO 42 NIELIT/IT/L5/020 Certificate Course in System Administration using Linux 43 NIELIT/IT/L6/021 Certificate Course in System Administration using Unix	35	NIELIT/EM/L5/007	3	5	432
NIELIT/ES/L5/024 Certificate Course in VLSI Design NIELIT/IT/L6/029 Certified Cloud Computing and Virtualization Expert NIELIT/IT/L7/030 Certificate Course in DSP using MATLAB NIELIT/ES/L5/028 Certificate Course in Embedded System Design using ARM/Cortex Microcontroller NIELIT/IT/L5/032 Certificate course in CAD using CREO NIELIT/IT/L5/020 Certificate Course in System Administration Using Linux NIELIT/IT/L6/021 Certificate Course in System Administration Using Unix	36	NIELIT/EM/L4/014	Design , Analysis and Manufacturing	4	250
Expert 39 NIELIT/IT/L7/030 Certificate Course in DSP using MATLAB 7 80 40 NIELIT/ES/L5/028 Certificate Course in Embedded System 5 80 Design using ARM/Cortex Microcontroller 41 NIELIT/IT/L5/032 Certificate course in CAD using CREO 5 100 42 NIELIT/IT/L5/020 Certificate Course in System Administration 5 80 using Linux 43 NIELIT/IT/L6/021 Certificate Course in System Administration 6 80 using Unix	37	NIELIT/ES/L5/024	Certificate Course in VLSI Design	5	80
40 NIELIT/ES/L5/028 Certificate Course in Embedded System Design using ARM/Cortex Microcontroller 5 80 41 NIELIT/IT/L5/032 Certificate course in CAD using CREO 5 100 42 NIELIT/IT/L5/020 Certificate Course in System Administration using Linux 5 80 43 NIELIT/IT/L6/021 Certificate Course in System Administration using Unix 6 80	38	NIELIT/IT/L6/029	. 5	6	210
40 NIELIT/ES/L5/028 Certificate Course in Embedded System Design using ARM/Cortex Microcontroller 5 80 41 NIELIT/IT/L5/032 Certificate course in CAD using CREO 5 100 42 NIELIT/IT/L5/020 Certificate Course in System Administration using Linux 5 80 43 NIELIT/IT/L6/021 Certificate Course in System Administration using Unix 6 80	39	NIELIT/IT/L7/030	Certificate Course in DSP using MATLAB	7	80
42 NIELIT/IT/L5/020 Certificate Course in System Administration using Linux 43 NIELIT/IT/L6/021 Certificate Course in System Administration using Unix			Certificate Course in Embedded System		80
42 NIELIT/IT/L5/020 Certificate Course in System Administration 5 80 using Linux 43 NIELIT/IT/L6/021 Certificate Course in System Administration 6 80 using Unix	41	NIELIT/IT/L5/032	Certificate course in CAD using CREO	5	100
43 NIELIT/IT/L6/021 Certificate Course in System Administration 6 80 using Unix	42	NIELIT/IT/L5/020			80
NUEL 15 15 15 15 15 15 15 15 15 15 15 15 15	43	NIELIT/IT/L6/021	Certificate Course in System Administration	6	80
	44	NIELIT/IT/L6/023		6	420



National Institute of Electronics and Information Technology

FORMAT FOR APPLYING ACCREDITATION TO RUN NSQF ALIGNED COURSES

т.		Da	te:
То	The Executive Director / Director / Directo NIELIT xxxxx Address	r In-charge,	
Subje NSQ	ect: APPLICATION FOR ACCREDITATI F ALIGNED COURSES	ON WITH NIELI	T FOR CONDUCTING
Dear	Sir/ Madam,		
I _			
	e & Designation of the Autl		
the	Authorized person) is the authori	sed signatory	
condu	e and address of the institute). The institute is cting NSQF aligned course of NIELIT and falls (EGORY 'A'		
	COURSE ACCREDITED FOR	ACCR NUMBER / TPID	VALIDITY OF ACCREDITATION
1.	NIELIT Software (O /A/ B/C Level) and Hardware (CHM-O/A Level) accredited		
2.	ESDM Accredited Institute		
3.	Other NIELIT Affiliated Training Partner Name of the Program: NCPUL/		
CATE	EGORY 'B' COURSE ACCREDITED FOR	NAME OF	VALIDITY OF
		APPROVING BODY	AFFILIATION AND AFFILIATION NO. (IF ANY)
1.	Engineering Colleges/ Technical Institutions approved by Councils under Central Government like AICTE		
2.	Polytechnics approved by Central or State Boards of Technical Education or NCVT.		
3.	Institutes running BCA / BSc (CS /IT/Electronics) or higher courses under Universities		

	(PRC	PRIET TNERS	ORSHIP	INSTITUTE / / SOCIETY / ETC.)	APPR	OVING	REGISTRATIONNI AND VALIDITY REGISTRATION	
1.								
nstit	tute fu	Ifills the	e norms fo	e r accreditatio tion with NIEL	n as me	ntioned in th	hereby undertake is document. The in Courses:	
S	. No.	(Code	Name of Co	ourse	Hours	Whether this cou exempted fro inspection as p Annexure VI (Yes	m er
	1							
	2							
acul lace	3 o unde lty to c ement	onduct of the	the above candidates	courses. The after succes	institute sful com	e also has the apletion of th	a-structure, support of tie-ups with the ind ne training. The deta	ustry f
acul lace	3 o unde lty to c ement	onduct of the ted onli	the above candidates ne for the a	courses. The after succes	institute sful com above m	e also has the apletion of th	tie-ups with the ind	ustry f
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amnfor	o unde lty to cement ubmitte Numl court (A remation editation possibn.	onduct of the ted onli ber of rses A) n e that n or sup on / car le puni	rhe above candidates ne for the above reference for the above representation of the above representation of the action of the ac	courses. The safter success affiliation for course (in Rs. (B) + GST (as e) per course ent of delibers sleading infor of the accredity of the accredity after the second	Inspectation (Instituted applied appli	e also has the appletion of the appletion of the appletion fees (if able) (in Rs.) (C) co,ooo/- cas applicable) n-disclosure by the institute granted, along and discretion fees (if able) Name:	tie-ups with the indine training. The detaurses is as under: Total fees (in Rs.) (D) ((A) × (B)) + (C) / misrepresentation ute may result in rejung with forfeiture of	of virection

Note: This application will be filled & submitted online. Institute has to submit separate application for exempted & non-exempted courses to expedite the process.

ANNEXURE III

LIST OF SOFTWARE REQUIREMENTS FOR NSQF ALIGNED COURSES

S.No	Course Name	Software requirement			
1	Post Diploma in Electronics Product	Application software for Inte PCs, RTOS (Free License like	rfacing of Microcontroller kit to Free-RTOS etc)		
2	Advance Diploma in Hardware ,Networking & Information Security [ADHNS]	1. Windows Server 2012 R2 2. Windows 7/8 3. RHEL 7 or CentOS 7 (Open Source) 4. VMWare ESXi Server (Free Edition) 5. Oracle Virtual Box (Open Source) or Vmware Workstation Player 14.0 (Free for Personal Use) 6. MS Office or Open Source Equivalent 7. Proxy Server Software (Open Source) 8. Anti-Virus 9. Wireshark (Open Source) 10. Nessus(Open Source) 11. NMap/Zenmap(Open Source) 12. Snort IDS (Open Source) 13. Metasploit Framework (Open Source) 14. John the Ripper(Open Source)	15. Hping(Open Source) 16. Burp Suite (Open Source) 17. Kali Linux(Open Source) 18. C/C++ Compiler(Open Source) 19. Java Compiler(Open Source) 18. LAMP/WAMP Software Note: A portion of lab assignment would be covered using Portable Virtual Lab and Network Security Simulation lab which would be provided by NIELIT on payment basis to Minimise the Infrastructure Cost.		
3	Networking Specialist (NS)	•	Cisco Packet Tracer 7.0 or above, CAL, Any latest version of Fedora ting Systems		
4	Repair & Maintenance of Power Supply, Inverter & UPS	NA			
5	Advance Diploma in Computer Application Accounting and Publishing	Latest version of MS Office, Pagemaker and Coral Draw	Tally ERP, Adobe Photoshop,		
6	Certificate course in Arduino based Embedded System Design	Compiler, Emulator & Simula	ator softwares		
7	Certified Data Scientist	Hadoop, Java, MySQL, HIVE, Operating Systems	, HBASE, JAQL, PIG and Ubuntu		

8	Certificate course in Reliability	MS-Excel, Open Source Soft	ware Open Bug, Win Bug
9	Advanced Diploma in Bigdata Analytics	Hadoop, Hadoop Subproject Java	ts, Python, Ipython, R Studio,
10	Certificate Course in Cyber Forensic	1. RHEL 7 or CentOS 7 (Open Source) 2. Digital Forensics Framework(Open Source) 3. Open Computer Forensics Architecture(Open Source) 4. CAINE (Computer Aided Investigative Environment) (Open Source) 5. X-Ways Forensics(Open Source) 6. SANS Investigative Forensics Toolkit – SIFT(Open Source) 7. The Sleuth Kit(Open Source) 8. Volatility(Open Source) 9. WindowsSCOPE (Open Source) 10. Encrypted Disk Detector(Open Source) 11. Wireshark(Open Source) 12. Magnet RAM Capture (Open Source) 13. Network Miner (Open Source) 14. NMAP(Open Source) 15. RAM Capturer(Open Source) 16. Forensic Investigator(Open Source) 17. HashMyFiles(Open Source) 18. USB Write Blocker(Open Source) 19. NFI Defraser(Open Source) 20. ExifTool(Open Source)	21. Toolsley(Open Source) 22. Dumpzilla(Open Source) 23. Browser History(Open Source) 24. ForensicUserInfo(Open Source) 25. Black Track(Open Source) 26. Sleuth Kit(Open Source) 27. WebHistorian(Open Source) 29. Neotrace(Open Source) 30. Wireshark(Open Source) 31. Tcpdump (Open Source) 32. Snort(Open Source) 33. Tcpdstat(Open Source) 34. tcptrace(Open Source) 35. Dcfl(Open Source) 36. dd(Open Source) 37. Netcat(Open Source) 38. BinText(Open Source) 39. Regmon, (Open Source) 40. Tcpmon(Open Source) 41. Netanalysis(Open Source) 42. Disk and data capture 43. File viewers 44. File analysis 45. Registry analysis 46. Internet analysis 47. Email analysis 48. Mobile devices analysis 49. Mac OS analysis 50. Network forensics 51. Database forensics tools
11	PG Diploma in IoT	Arduino IDE, Keil, XCTU	
12	Certified Android Apps Developer	Latest Android Studio	
13	Solar Power Installation, Operation and Maintenance	NA	

14	Certificate Course in Linux, Apache, MySQL and PHP	Linux operating system, Apache Web server, MySQL Database, PHP Programming Language.
15	Certified Multimedia Developer	ADOBE Master Collection CS6, Sound forge, Audacity
16	Advance Course in Web Application Development using LAMP.	Linux operating system, Apache Web server, MySQL Database, PHP Programming Language.
17	Advanced Diploma in Java Enterprise edition (JEE)	Latest JAVA version
18	Certification Course in Data Entry and Office Automation.	MS Office, Typing Master
19	Advanced Diploma in Android Application Development	Latest Android Studio
20	Diploma in Installation & Repair of Consumer Electronics Products	NIL
21	Certified Course in Web Designing	Windows /Linux operating System, Microsoft office etc.
22	Certificate course in Office Automation(CCOA)	Windows Operating System, Microsoft office etc.
23	Certificate Course in PC Assembly & Maintenance	Operating System -Windows -Linux
24	Certified Graphic Designer	ADOBE Master Collection CS6, Sound forge, Audacity
25	Certified Audio Visual Designer	ADOBE Master Collection CS6, Sound forge, Audacity
26	Certified 2D Animator	ADOBE Master Collection CS6, Sound forge, Audacity
27	Repair & Maintenance of ECG and ICCU Equipments	NIL
28	Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine)	NIL
29	Repair & Maintenance of Dental Equipment	NIL
30	Assembly & Maintenance of Personal Computer	Operating System - Windows - Linux
31	Solar-LED Lighting Product (Design and Manufacturing)	NA

32	Installation & Maintenance of	Driver software.
	Photocopiers and Printers	
33	ESM - 1 Electronic	PCB Designing Software Tools
33	Production Technician	The Designing Software 10013
34	Certificate in Robotic Programming and Maintenance	Robot simulator(robo sim)
35	ESD –1 Electronics	PCB Designing and Packaging tools and software
33	Product Design Support Engineer	VLSI & Embedded Development and Designing Software
36	Certificate Course on Printed Circuit Board Design ,Analysis and Manufacturing Techniques	 PCB Schematic and Layout Designing Software. Gerber Viewer Software
37	Certificate Course in VLSI Design	Xilinx FPGA Design Suite, Altera (Intel) FPGA Design Suite, ASIC Design Tool from Cadence / Synopsys, Layout Tools, Mentor Graphics Modelsim
38	Certified Cloud Computing and Virtualization Expert	VMWare Workstation, Citrix XenDesktop, Openfiler, Windows Server, Esxi
39	Certificate Course in DSP using MATLAB	MATLAB with simulink and other DSP related toolkits
40	Certificate Course in Embedded System Design using ARM/Cortex Microcontroller	Keil MDK or any other software suitable for Keil ARM/Cortex Microcontroller
41	Certificate course in CAD using CREO	Creo Parametric 3.0 (University license) or latest version
42	Certificate Course in System Administration using Linux	Linux Operating System e.g: Red Hat Linux, CentOS, Fedora, Ubuntu etc.
43	Certificate Course in System Administration using Unix	Unix Operating System
44	Advanced Diploma in .Net Technology	Latest version of Microsoft Visual Studio

Note - All software should have proper license/Freeware intended for educational purpose as applicable.

ANNEXURE IV

LIST OF HARDWARE REQUIREMENTS FOR NSQF ALIGNED COURSES

S. No	Course Name	Hardware requirement	Any other specific requireme nt related to the course
1	Post Diploma in Electronics Product Design	Analog & Digital Trainer Kit, Microcontroller (8051, ARM, Ardino), Bread-Board, Multimeter, CRO, Soldering Station, Analog and Digital ICs, Passive Components Desktops (8 Nos)	o2 Sets of Equipment s and trainer kits
2	Advance Diploma in Hardware ,Networking & Information Security [ADHNS]	1. 8 Nos. Desktop PC (16 GB RAM, Intel i7, Intel VT 64 bit support) 2. Wireless Access Point (4 Nos) 3. Wireless LAN Card USB/PCI (8 Nos) 4. Unmanaged Switch 8/16/24 ports (2 Nos) 5. LAN Cable Tester (5) 6. Analog Trainer (2 Nos) 7. Digital Trainer (2 Nos) 8. Set of screw Driver set 9. Wire stripper 10. DVD Writer 11. Breadboard (5 Nos) 12. Multimeter(5 Nos) 13. Wire Crimpers (Crimping Tool) 14. UTP Cables 15. RJ-45 connectors 16. Punch Down Tools 17. Soldering Iron (2 nos) 18. Scanner(1 Nos) 19. Printer LaserJet (1 Nos) Note. A portion of lab assignment would be covered using Portable Virtual Lab and Network Security Simulation lab which would be provided by NIELIT on payment basis to Minimise the Infrastructure Cost.	Consumab le & other items as per requireme nts
3	Networking Specialist (NS)	Computers (with latest processor and minimum 16 GB RAM) as per number of participants and networking. 4 nos 1900 Series Routers, 2 nos 2900 Series Catalyst Switches, 2 nos Wireless routers supporting all IEEE 802.11 Wireless standards, 5 nos old desktop PCs for teaching Hardware concepts, 10 nos Wire Strippers, 5 nos ScrewDriver kits, 10 nos Crimping tools, 1 roll Cat 6 Cable, 200 nos RJ 45 connectors and other consumable items as required.	Consumab le & other items as per requireme nts

4	Repair &	Resistance of different value & Wattage ratings	Consum
	Maintenance	Capacitor of different types	le & othe
	of Power	Transistors – BC 546, BC 547, SL 100, 2N3055	items as
	Supply,	Rectifier Diode	per .
	Inverter & UPS	Step down Transformers of different ratings	requiren
		Zener Diode of different values	nts
		LED of different colors	
		Electronics & ElectricalTool Kit (5 nos)	
		3 Pin Voltage Regulators(7805,7905,7812,7912) -3 nos each	
		Logic GATE ICs	
		Connecting Wires	
		Digital Multimeter (5 nos)	
		Digital Storage Oscilloscope, 200 Mhz (minimum 1 nos)	
		Soldering Iron (5 nos)	
		Solder Wire(80/20)	
		Solder Whe(66/26) Soldering Flux(liquid/paste)	
		Microwatt Soldering Iron (3 nos)	
		Desoldering Station (2 nos)	
		Desoldering Pump (2 nos)	
		Inverter (1 nos)	
		UPS (1 nos)	
		Stabilizer/CVT(2 nos)	
	A 1	Battery Charger (2 nos)	
5	Advance	8 PC's with 8 GB RAM & Graphics card, Speaker &	
	Diploma in	microphone.	
	Computer		
	Application		
	Accounting and		
	Publishing		
6	Certificate	8 PCs with latest configuration & 4 GB RAM, Arduino Kit	Minimur
0	course in	(Uno or Mega), Microcontroller development kit.	02 kits
	Arduino based	(One of Mega), interocontroller development kit.	each.
	Embedded		23011
	System		
	Design		
7	Certified Data	8 PCs with latest configuration & 8 GB RAM	
,	Scientist		
8	Certificate	8 PCs with latest configuration & 4 GB RAM, 2 set CRO &	
	course in	2 set Electrical & Electronics Tool Kit	
	Reliability		
9	Advanced	8 PCs with latest configuration & 8 GB RAM	
,	Diploma in		
	Bigdata		
	Analytics		
	,		

10	Certificate Course in Cyber Forensic	 1. 8 Desktop PC with 16 GB RAM with Intel i7, Intel VT 64 bit support or similar 2. Wireless Access Point (4 Nos) 3. Wireless LAN Card USB/PCI (8 Nos) 	
11	PG Diploma in IoT	 4. Unmanaged Switch 8/16/24 ports (2 Nos) 8 PCs with 4 GB RAM & latest configuration, Arduino (Uno or Mega) Node MCU (ESP 8266) Raspberry Pi Zigbee 8051 ARM Cortex Sensors, resistors, capacitor Mounts and Joints 	o2 Sets of Equipment s, Consumab le & other items as per requireme nts
12	Certified Android Apps Developer	8 High end PC's with 16 GB RAM	
13	Solar Power Installation, Operation and Maintenance	Resistance of different value & Wattage ratings Capacitor of different types Transistors – BC 546, BC 547, SL 100, 2N3055 Rectifier Diode Step down Transformers of different ratings Zener Diode of different values LED of different colors Electronics & Electrical Tool Kit (5 nos) 3 Pin Voltage Regulators(7805,7905,7812,7912) (3 nos each) Connecting wires Logic GATE ICs PWM IC's (TL 494, LD7575PS,DAP008) OPAM/Comparator(LM 324,LM 339) Digital Multimeter (5 nos) Digital Storage Oscilloscope, 200 Mhz (minimum 1 nos) DC Regulated Power Supply (0-15V, 10 A) Linear & Digital IC Tester (2 nos) Clamp meter (AC/DC) (2 nos) Soldering Iron (5 nos) Solder Wire(80/20) Soldering Flux(liquid/paste) Microwatt Soldering Iron (3 nos) Desoldering Station (2 nos) Power Inverter sets (2 nos) Stabilizer/CVT(2 nos) Battery Charger (2 nos) Solar panels of differentwattages & types (min. 5 nos)	Consumab le & other items as per requireme nts

	T		,
14	Certificate Course in Linux, Apache, MySQL and PHP	8 PCs with latest configuration & 4 GB RAM	
15	Certified Multimedia Developer	8 PCs with latest configuration & 8 GB RAM & Graphics card, Speaker & microphone.	
16	Advance Course in Web Application Development using LAMP.	8 PCs with latest configuration & 4 GB RAM & Graphics card, Speaker & microphone.	
17	Advanced Diploma in Java Enterprise edition (JEE)	8 PCs with latest configuration & 4 GB RAM & Graphics card, Speaker & microphone.	
18	Certification Course in Data Entry and Office Automation.	8 PCs with latest configuration & 4 GB RAM & Graphics card, Speaker & microphone.	
19	Advanced Diploma in Android Application Development	8 High end PC's with 16 GB RAM	
20	Diploma in Installation & Repair of Consumer Electronics Products	Electrical and Electronic toolkit, LCD/LED TV, Cable TV installation and testing equipments, FM radio, Cordless Phone, VCD/DVD	Tool kits - 4 Set, Devices 2 each, Consumab le & other items as per requireme nts
21	Certified Course in Web Designing	8 PCs with latest configuration & 4 GB RAM & Graphics card, Speaker & Microphone	
22	Certificate course in Office Automation(C COA)	8 PCs with latest configuration & 4 GB RAM	

23	Certificate Course in PC Assembly &	Latest PC Trainer Kit with all accessories – 2 Old working PCs - 5 Soldering and De-soldering Station - 2	Consumab le & other items as
	Maintenance	Oscilloscope -1 Digital Multi-meter - 5 Digital & Analog IC Tester -2 Power Supply 0-30 V - 2 Small screw Driver kit -5 Different types of small Plair set -5 De-soldering pump - 2 Soldering wire – as per requirement Tweezer -5	per requireme nts
		Bond make liquid flux o% some respective components etc	
24	Certified Graphic Designer	8 PCs with latest configuration & 8 GB RAM & Graphics card, Speaker & Microphone.	
25	Certified Audio Visual Designer	8 PCs with latest configuration & 8 GB RAM & Graphics card, Speaker & Microphone.	
26	Certified 2D Animator	8 PCs with latest configuration & 8 GB RAM & Graphics card , Speaker & microphone.	
27	Repair & Maintenance of ECG and ICCU equipments	ECG Machine, Colorimeter, Microscope, IC Trainers, Soldering & deSoldering Kit, Power Supply, CRO	Consumab le & other items as per requireme nts
28	Repair and Maintenance of Imaging Equipment (X- Ray & Ultrasound machine)	X-Ray Machine, Ultrasound Machine IC Trainers, Soldering & deSoldering Kit, Power Supply, CRO	Consumab le & other items as per requireme nts
29	Repair & Maintenance of Dental Equipment	Dental Chair, Ultrasonic Scalar, Comprassor, Dental X-Ray, IC Trainers, Soldering & deSoldering Kit, Power Supply, CRO	Consumable & other items as per requirements
30	Assembly & Maintenance of Personal Computer	Latest PC Trainer Kit with all accessories – 2 Old working PCs - 5 Soldering and De-soldering Station - 2 Oscilloscope -1 Digital Multi-meter - 5 Digital & Analog IC Tester -2 Power Supply 0-30 V - 2 Small screw Driver kit -5 Different types of small Plair set -5 De-soldering pump - 2 Soldering wire – as per requirement Tweezer -5	Consumab le & other items as per requireme nts

		Bond make liquid flux o% some respective components etc. – as per requirement	
31	Solar-LED Lighting Product (Design and Manufacturing)	Resistance of different value & Wattage ratings Capacitor of different types Transistors – BC 546, BC 547, SL 100, 2N3055 Rectifier Diode Step down Transformers of different ratings Zener Diode of different values LED of different colors and wattages for lighting purposes Electronics & Electrical Tool Kit (5 nos) 3 Pin Voltage Regulators(7805,7905,7812,7912)- 3 nos each Connecting wires Logic GATE ICs PWM IC's (TL 494, LD7575PS,DAP008) OPAM/Comparator(LM 324,LM 339) Digital Multimeter (5 nos) CRO (2 nos) Function Generator (2 nos) DC Regulated Power Supply (0-15V, 10 A) (2 nos) Linear & Digital IC Tester (2 nos) Clamp meter (AC/DC) (2 nos) Soldering Iron (5 nos) Solder Wire(80/20) Soldering Flux(liquid/paste) Microwatt Soldering Iron (3 nos) Desoldering Station (2 nos) Power Inverter sets (2 nos) Stabilizer/CVT(2 nos) Battery Charger (2 nos) Solar panels of different wattages & types (min. 5 nos) Bread board (10 nos minimum) Lux meter (2 nos) Hot air gun (2 nos) Flux Remover (2 nos)	Consumal le & other items as per requirements
32	Installation & Maintenance of Photocopiers and Printers	2 PCs with latest configuration & 4 GB RAM, 4 sets Electrical and Electronic toolkit, o1 Photocopier Machine and o2 Printer (o1 Inkjet and o1 Laser Printer- Colored).	Consumal le & other items as per requirements
33	ESM - 1 Electronic Production Technician	Soldering Iron (5 nos) CRO (2 nos) Function Generator (2 nos) Magnifier with Lamp (5 nos) Soldering/de-soldering station (2 nos) Solder Wire(80/20)	Consumal le & other items as per requirements

		Soldering Flux(liquid/paste)	
		Microwatt Soldering Iron (3 nos)	
		Flux Remover (2 nos)	
		general purpose PCBs (minimum 10 nos)	
		Hot air gun (2 nos)	
		Preheat plates (5 nos)	
		SMT/SMD Rework stations (2 nos)	
		Electric screw driver with Torque control (5 nos)	
		Passive and Active Discrete Electronic Components:	
		Resistors, Capacitors and Inductors,	
		Semiconducting Devices: Diodes, Transistors, ICs etc	
		Digital Multimeter (5 nos)	
		Electronics & Electrical Tool Kit (5 nos)	
		DC Regulated Power Supply (0-15V, 10 A) (2 nos)	
		Linear & Digital IC Tester (2 nos)	
		Clamp meter (AC/DC) (2 nos)	
		Bread Board (10 nos)	
		2 PCs with latest configuration & 4 GB RAM	
34	Certificate in	Industrial Robots	Consumab
<i>-</i> 1	Robotic	1) Fanuc LR mate200iC	le & other
	Programming	2) Fanuc LR mate200iD	items as
	and	3) End effecter	per
	Maintenance	4) Relevant components for a specific job.	requireme
	Wanterlance	8 Desktop PC's latest configuration with 4 GB RAM with	nts
		graphics card, speaker and Mic	1103
٦.	ESD -1	2 nos Microcontrollers based development boards-PIC,	Consumab
35	Electronics	AVR, MSP, ARM processor boards, Adriuno kits.	le & other
	Product	2 nos Xilinx, Altera based FPGA Development Boards.	
			items as
	Design	3 nos each - Peripheral and Sensors for Interface:	per
	Support	Accelerometer, Gyro sensors, humidity sensors, PIR	requireme
	Engineer	motion detection module, RFID Module, GPS module,	nts
		Zigbee, Bluetooth module.	
		Digital Multimeter (5 nos)	
		Electronics & Electrical Tool Kit (5 nos)	
		DC Regulated Power Supply (0-15V, 10 A) (2 nos)	
		Soldering Iron (5 nos)	
		Microwatt Soldering Iron (2 nos)	
		CRO (2 nos)	
		Function Generator (2 nos)	
		Bread Board (10 nos)	
		Passive and Active Discrete Electronic Components:	
		Resistors, Capacitors and Inductors,	
		Semiconducting Devices: Diodes, Transistors, ICs etc	
		8 Desktop PC's latest configuration with 4 GB RAM with	
		graphics card, speaker and Mic	
36	Certificate	8 Desktop PC's latest configuration with 4 GB RAM	Raw
30	Course on		Material
	Printed Circuit	Photoresist Laminating/Coating Machine	
		U.V. Exposure Machine	required
	Board Design	Developing Machine	for PCB
	,Analysis and	Etching Machine	Manufactu
	Manufacturing	Roller Tinning machine	ring,

	Γ	[T
	Techniques	Drilling Machine	Assembly
		Through Hole Plating Machine	and
		Mini Hot Air Oven	Rework
		Silkscreen (Screen Printing) Setup	Kits as per
		Temperature Controlled Soldering/ Desoldering /Repair &	requireme
		Rework Station	nt
		Surface Mount Technology (SMT) Setup	
		a. Stencil Printer	
		b. Manual Assisted Pick and & Place Machine	
		c. Table top Reflow Oven	
27	Certificate	2 nos. FPGA Development Kit from Xilinx with complete	Consumab
37	Course in VLSI	accessories	le & other
	Design	1 nos Logical Analyzer	items as
		CROs (2 nos)	per .
		Function Generator (2 nos)	requireme
		2 set of Testing Equipment's	nts
		8 Desktop PC's latest configuration with 8 GB RAM with	
		graphics card, speaker and Mic	
		1 High end Server with 16 GB RAM for hosting tool	
		licenses	
38	Certified Cloud	8 PCs with latest configuration & 8 GB RAM & with	
	Computing	networking support	
	and	1 High end Server with 16 GB RAM.	
	Virtualization	Tringirena serrei mari 13 de 10 am	
	Expert		
39	Certificate	8 PCs with latest configuration & 8 GB RAM	
39	Course in DSP	or es with latest configuration & o db KAIVI	
	using MATLAB	ADM/C + MC + H + 1 Lit in	
40	Certificate	2 nos ARM/ Cortex Microcontroller trainer kit with	
	Course in	complete accessories such as LCD, 7 segment, stepper	
	Embedded	motor, sensors	
	System Design	8 PCs with latest configuration & 8 GB RAM	
	using		
	ARM/Cortex		
	Microcontrolle		
	r		
41	Certificate	8 PCs with latest configuration & 8 GB RAM & Graphics	
	course in CAD	card, Speaker & microphone.	
	using CREO		
	- g		
42	Certificate	8 PCs with latest configuration & 4 GB RAM with internet	
	Course in		
	System		
	Administration		
	using Linux		
43	Certificate	8 PCs with latest configuration & 4 GB RAM with internet	
43	Course in	3. 23 Mariatest configuration & 4 35 KAW With Internet	
	System		
	Administration		
	using Unix		

44	Advanced	8 PCs with latest configuration & 8 GB RAM with internet	
	Diploma in		
	.Net		
	Technology		

Note: In addition to the given requirement, the following is also required

- 1. Power Backup & internet connectivity with at least 2 mbps line
- 2. Color Printer & Scanner
- 3. Multimedia Projector for Teaching

ANNEXURE V

FACULTY REQUIREMENTS FOR NSQF ALIGNED COURSES

S. No	Course	Faculty 1 (Qualification)	Faculty 2 (Qualification)	Supporting Faculty (Qualification)
	Post	B.Tech/ M.Tech in Electronics	B.Tech/M.Tech in	Diploma/M.Sc./B.Tech/
	Diploma		Electronics	in Electronics
	in			
1	Electronic			
	s Product			
	Design			
2	Advance	B.Tech (CSE/CS/IT)	Graduate with	NIELIT ADHNS
	Diploma in	or	MCSE/CCNA/RHCE/	or
	Hardware	Graduate with MCSE/ CCNA/ RHCE/ NIELIT CSSA/ CEH /	NIELIT CSSA/ CEH /	a. 3 year Diploma
	,Networki	Cloud Computing / NIELIT ADHNS	Cloud Computing /	NIELIT CHM-A Level/
	ng &		NIELIT ADHNS	Graduate
	Informatio			b. MCSE/CCNA/RHCE/
	n Security			NIELIT CSSA/ CEH
	[ADHNS]			
	Networkin	a. BE/B.Tech(Computer Science)/ MCA/ B Level	Master Degree in	Polytechnic Diploma
	g	b. CCNA v 6.o (Routing and Switching) or MCSE certified	Computer Science with	holder with Hardware
	Specialist	with sound knowledge of Linux	CCNA v 6.o (Routing and	Networking Diploma
3	(NS)		Switching) or MCSE	and CCNA v 6.o (Routing
			certified with sound	and Switching) or MCSE
			knowledge of Linux	certified with sound
				knowledge of Linux
	Repair &	BE (Electrical/ Electronics/ ECE) or MSc Electronics/		Diploma in Electrical ,
	Maintenan	Physics .		Electronics, ECE, NIELIT
	ce of			certified Certificate
4	Power			Course in Repair &
	Supply,			Maintenance of Power
	Inverter &			Supply, Inverter & UPS
	UPS			
	Advance	a. MCA/ Graduate with A level / PGDCA		B.Com with O level and
	Diploma in	b. knowledge of DTP		knowledge of Tally
	Computer			
5	Applicatio			
5	n			
	Accountin			
	g and			
	Publishing			
	Certificate	BE/B.Tech. (Electronics, Electrical, or equivalent)/		BE/B.Tech. (Electronics,
	course in	MSc(Electronics) with 1 year relevant experience		Electrical, or equivalent)
	Arduino			
6	based			
	Embedde			
	d System			
	Design			

	Certified	BE/B.Tech(Computer Science/Electronics) / MCA/ B Level	a. M.Sc(Computer	
	Data		Science) / Masters in	
	Scientist		Statistics/ B Level	
7			b. knowledge of Java	
			Programming and	
			Databases	
	Certificate	BE/B.Tech. (Electronics or equivalent)		B.Tech./M.Sc./Diploma
	course in			in Electronics
8	Reliability			
	Kellability			
	Advanced	a. B.Tech (CS/IT)/MCA/M.Sc. Computer Science/NIELIT B		Graduation/Diploma in
	Diploma in	Level		computer science with
	Bigdata	b. knowledge in Hadoop, Hadoop subprojects, R, and		knowledge in Hadoop,
	Analytics	Python		Hadoop subprojects, R,
9	,	or		and Python
9		PG/Adv Diploma certification in BigData from NIELIT		or
		1 d/Adv Diploma certification in DigData from NiEEri		
				PG/Adv Diploma
				certification in BigData
				from NIELIT
	Certificate	a. Engineering Graduate(CS/IT) /Science Graduate /	a. B.Tech.	
	Course in	MCA/B Level	(Computer/Electronics)	
	Cyber	b. CCFP(ISC ₂) /NIELIT CCFP/EC Council CHFI	/MCA /B Level	
	Forensic		b. knowledge of Cyber	
			Forensic & Cyber Law.	
10			Certification is Desirable	
10				
	PG	B.Tech/B.E. In ECE/EEE/EI/CSE/IT with one year relevant	B.Tech/B.E. In	
	Diploma in	experience.	ECE/EEE/EI/CSE/IT	
11	IoT			
	Contitio -	D. D. Toch M.C.A./ NIEL IT. A./D.L. aval/M.C/.C		
	Certified	a. B.Tech/MCA/ NIELIT-A/B Level/MSc(Computer)/PGDCA		
12	Android			
	Apps	b. Knowledge of Android Programming and JAVA		
	Developer			
	Solar	BE/B.TEch (Electrical, Electronics & ECE) or MSc		
	Power	(Electronics) with 6 month relevant field experience.		
	Installatio			
	n,			
13	Operation			
	and			
	Maintenan			
	ce			
	Certificate	a. B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/NIELIT 'A' Level(IT)		
	Course in	b. 6 month experience in Linux, Apache, MySQL and PHP		
14	Linux,	area.		
	Apache,			
	MySQL			

	and PHP			
	Certified	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level//MCA/ PGDCA		Graduate with MAT-O
	Multimedi	(b)with one year certification in Multimedia		Level
	a	or		or
15	Developer	Graduate with NIELIT MAT-O Level		1 year course in
				Multimedia or
				Animation
	Advance	a. B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/NIELIT 'A' Level(IT)		B.Sc.(CS/IT)/BCA/PGDC
	Course in	b. 6 month experience in Linux, Apache, MySQL and PHP		A/NIELIT 'A' Level(IT),
	Web	area.		with knowledge in LAMP
	Applicatio	a.cu.		
16	n			
	 Developm			
	ent using			
	LAMP			
	Advanced	De Peter (CS/IT) IMS c(IT/Computer Science) MCA /	a.BE/BTech/MSc(IT/Com	a. 3 Year Diploma
	Diploma in	a.BE/BTech (CS/IT)/MSc(IT/Computer Science), MCA / NIELIT B Level	puter Science), MCA,	(IT/Computer Science)/
	Java		NIELIT B Level	A Level(IT)
		b. knowledge in JAVA & JEE		
	Enterprise		b. excellent knowledge	b.with knowledge in
17	Edition		in JAVA & JEE	JAVA & JEE /
	(JEE)			or
				PG/Adv. Diploma
				certification in Java/JEE
				/Software Technology
				from NIELIT
	Certificati	B.Tech/BCA/BSc(IT/CS)/ NIELIT A/B Level		BSc(IT/CS)/A Level
	on Course			
	in Data			
18	Entry and			
	Office			
	Automatio			
	n.			
	Advanced	a. BE/BTech/MSc(IT/Computer Science), MCA / B Level		a.3 Year Diploma
	Diploma in			(IT/Computer Science)/
	Android	b. knowledge in JAVA & Android programming		A Level
19	Applicatio			b. knowledge in JAVA,
	n			Android programming
	Developm			
	ent			
	Diploma in	BE / 3 yr. Diploma (Electrical/ Electronics/		ITI / 3 yr. Diploma in
	Installatio	ECE/Instrumentation) or MSc Electronics		relevant discipline.
	n & Repair			
20	of			
	Consumer			
	Electronic			
	s Products			
		i	l	ı.

21	Certified Course in Web Designing	B.E / B. Tech. in Computer Science / IT OR M.Sc. (Computer Science)/ M.Sc. (IT)/ MCA OR	
		BCA/ B.Sc(IT)	
		or	
		NIELIT A/B Level	
	Certificate	B.E / B. Tech. in Computer Science / IT	
	course in	OR	
	Office	M.Sc. (Computer Science)/ M.Sc. (IT)/ MCA	
22	Automatio	OR	
	n (CCOA)	BCA/ B.Sc(IT)	
		or	
		NIELIT A/B Level	
	Certificate	3 yr. Diploma in (Computer , Electronics & ECE)	3 year Diploma in CSE/
	Course in	or	Electronics/ ECE
	PC	NIELIT ADHNS	
23	Assembly		or NIELIT certified
	&		Certificate Course in PC
	Maintenan		Assembly &
	ce		Maintenance
	Certified	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level/ /MCA/ PGDCA	MAT-O Level
	Graphic	(b)one year certification in Multimedia	or
24	Designer	or	1 year course in
		Graduate with NIELIT MAT-O Level	Multimedia or
			Animation
	Certified	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level/ /MCA/ PGDCA	MAT-O Level
	Audio	(b)with one year certification in Multimedia	or
25	Visual	or	1 year course in
	Designer	Graduate with NIELIT MAT-O Level	Multimedia or
			Animation
	Certified	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level/ /MCA/ PGDCA	MAT-O Level
	2D	(b) with one year certification in Multimedia	or
26	Animator	or	1 year course in
		Graduate with NIELIT MAT-O Level	Multimedia or
			Animation
	Repair &	a.M.Sc.(Electronics)/ 3 year Diploma in Electrical/	MSc (Electronics) / 3 year
	Maintenan	Electronics / Instrumentation	Diploma in (Electrical/
	ce of ECG	b. 1 year experience in relevant field	Electronics /
27	and ICCU		Instrumentation) with 6
	equipmen		months experience in
	ts		relevant field.
	Repair and	a.M.Sc.(Electronics)/ 3 year Diploma in Electrical/	MSc (Electronics) / 3 year
	Maintenan	Electronics / Instrumentation	Diploma in (Electrical/
	ce of	b. 1 year experience in relevant field	Electronics /
	Imaging		Instrumentation) with 6
28	Equipmen		months experience in
	t (X-Ray &		relevant field.
	Ultrasoun		
	d		

	machine)		
	•		
	Repair &	a.M.Sc.(Electronics)/ 3 year Diploma in Electrical/	MSc (Electronics) / 3 year
	Maintenan	Electronics / Instrumentation	Diploma in (Electrical/
	ce of	,,	'
29		b. 1 year experience in relevant field	Electronics /
	Dental		Instrumentation) with 6
	Equipmen		months experience in
	t		relevant field.
	Assembly	3 yr. Diploma in (Computer , Electronics & ECE)	Diploma in CSE ,
	&	or	Electronics & ECE,
	Maintenan	NIELIT ADHNS	or
	ce of		NIELIT certified
30	Personal		Certificate Course in PC
	Computer		Assembly &
			Maintenance
			or
			NIELIT ADHNS
	Solar-LED	BE/B.TEch (Electrical, Electronics & ECE) or MSc	3 yr. Diploma (Electrical
	Lighting	(Electronics) with 6 month relevant experience.	, Electronics or ECE) or
	Product (B. Sc (Electronics)
31	Design		
	and		
	Manufactu		
	ring)		
	Installatio	a.M.Sc.(Electronics)/ 3 year Diploma in Electrical/	MSc (Electronics) / 3 year
	n &	Electronics / Instrumentation	Diploma in (Electrical/
	Maintenan	b. 1 year experience in relevant field	Electronics /
32	ce of		Instrumentation) with 6
	Photocopi		months experience in
	ers and		relevant field.
	Printers		
		B.E. / B.Tech (ECE/EE/EEE)	3 yr Diploma (ECE/ EE/
	Electronic	or M.Sc (Electronics)	EEE)
33	Productio		or
	n		B.Sc (Electronics)
	Technician		
	Certificate	BTech (Mechanical/Electronics) or M.Sc (Electronics) with 1	3 yr. Diploma
	in Robotic	experience in relevant areas or	(Mechanical/Electronics)
	Programm	Certification from NIELIT in the relevant area	or
	ing and		B.Sc (Electronics)
34	Maintenan		or
	ce		Certification from
			NIELIT in the relevant
			area
	ESD-1	B.E. / B.Tech (ECE/EE/EEE)	3 yr Diploma (ECE/ EE/
	Electronic	or M.Sc (Electronics)	EEE)
	s Product		or B.Sc (Electronics)
35	Design		
	Support		
	Engineer		
	-		

36	Certificate Course on Printed Circuit Board Design ,Analysis and Manufactu ring Technique s	a. BE/ B.Tech in Electronics or M.Sc. (Electronics) or Post Diploma in EPD of NIELIT b. with 1 year experience in the relevant area	a. 3 yr. Diploma in Electronics or B.Sc. (Electronics) or Post Diploma in EPD of NIELIT b. 6 months experience in the relevant area
37	Certificate Course in VLSI Design	B.E/B.Tech/(ECE/EEE/CSE/AEI/Allied Branches) Plus PG Diploma /Adv. Certification in VLSI /Embedded Systems from NIELIT	
38	Certified Cloud Computin g and Virtualizat ion Expert	(a)BE/B.Tech(Computer Science/IT) / MCA/ NIELIT B Level (b) 1 year experience in relevant field	(a) 3 yr. Diploma(Computer Science / IT) / BCA/ NIELIT A Level (b) 6 months experience in relevant field
39	Certificate Course in DSP using MATLAB	BE/B.Tech(Electronics/Electronics & Communication) with 1 year relevant experience.	
40	Certificate Course in Embedde d System Design using ARM/Cort ex Microcont roller	BE/B.Tech (Electronics/Electronics & Communication) /M.Sc. (Electronics) with 1 yr. experience in the relevant field	
41	Certificate course in CAD using CREO	BE/BTech (Mechanical / Electrical/ Civil/ Electronics) with relevant experience in the CAD Package	
42	Certificate Course in System Administr ation using Linux	B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/ NIELIT B level or NIELIT 'A' Level(IT), having 1 yr relevant experience	

	Certificate	B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/ NIELIT B Level	
43	Course in	or	
	System	NIELIT 'A' Level(IT), having 1 yr relevant experience	
	Administr		
	ation		
	using Unix		
	Advanced	B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/ NIELIT B Level	BCA/ B.Sc(IT) / A
	Diploma in	or	Level(IT)/ PGDCA /
44	.Net	NIELIT 'A' Level(IT), having 1 yr relevant experience	PGDST (NIELIT)/
	Technolog		Diploma in .Net (NIELIT)
	у		

Note:

- a) Experience wherever is mentioned should be in relevant field only.
- b) Candidate with higher or equivalent qualification is also eligible as faculty.
- c) Candidates possessing the NIELIT's NQSF aligned certification in the same course are also eligible to be considered for support faculty with desired experience.
- d) A faculty for teaching personality development and communication skill may also be required as the same is also desired in NSQF courses.

LIST OF COURSES FOR WHICH CATEGORY A AND B INSTITUTES ARE EXEMPTED FROM INSPECTION

 AICTE approved Engineering Colleges running B.E./B.Tech/M.E./M.Tech (Electronics/ Electrical/ Instrumentation/Computer and allied branches)
 OR

Universities/Colleges running M.Sc. (Electronics/Computers and allied branches)

Courses for which institutes are exempted from inspection: All Courses.

2. AICTE approved Engineering Colleges / Universities running B.E./B.Tech (Civil/Mechanical and allied branches):

Courses for which institutes are exempted from inspection:

S. No	Course Name	Eligibility	NSQ F Level	Duratio n
1.	Certificate course in CAD using CREO	Pursuing B.E/B.Tech/Diploma/ in Mechanical, Production, Automobile, Tool & Die, Industrial engineering, Mechatronics, Electrical, Electronics and Allied branches	5	100 Hrs.

3. NIELIT O-Level Accredited Institutes

OR

Polytechnic Colleges running Diploma in Computers or equivalent

OR

Colleges/Institutes running BCA/B.Sc(CS/IT) or higher

OR

NCPUL CABA MDTP centres.

Courses for which institutes are exempted from inspection:

S. No.	Course Name	Eligibility	NSQF Level	Duration
1.	Certified Course in Web Designing	Basic Computer Knowledge	3	8o Hrs
2.	Certificate course in Office Automation(CCOA)	Minimum 10+2 pass	3	8o Hrs

3.	Advance Diploma in Computer Application Accounting and Publishing	Intermediate with knowledge of Basic computer and Internet Concepts	4	200 Hrs.
4.	Certified Graphic Designer	12th passed candidates	5	8o Hrs
5.	Certified Audio Visual Designer	12th passed candidates	5	8o Hrs.
6.	Certified 2D Animator	12th passed candidates	5	8o Hrs
7.	Certified Multimedia Developer	12th passed candidates	5	200 Hrs
8.	Certification Course in Data Entry and Office Automation.	10+2 in any stream with min 50% marks OR ITI Certificate (One Year) after class 10th with min 50% marks in ITI	4	135 Hrs.

4. NIELIT A-Level Accredited Institutes

OR

Polytechnic Colleges running Diploma in Computers or equivalent

OR

Colleges/Institutes running BCA/MCA/M.Sc(CS/IT)/B.Sc(CS/IT):

Courses for which institutes are exempted from inspection:

All Courses exempted at Sr. no. 3 above and the following Courses:

S. No	Course Name	Eligibility	NSQ F Level	Duratio n
1.	Certified Android Apps Developer	Graduate/Undergraduate and knowledge of Java, Internet Concepts and Database	5	100 Hrs
2.	Certificate Course in System Administration using Linux	B.Sc.(CS)/BCA/PGDCA/Diploma(CS/I T)/NIELIT `A' Level (s/w)	5	8o Hrs.
3.	Certificate course in CAD using CREO	Pursuing B.E/B.Tech/Diploma/ in Mechanical, Production, Automobile, Tool & Die, Industrial engineering, Mechatronics, Electrical, Electronics and Allied branches	5	100 Hrs.
4.	Certificate Course in Linux, Apache, MySQL and PHP	B.E./B.Tech/NIELIT A Level/BCA or Its equivalent	5	8o Hrs.
5.	Certificate Course in System Administration using Unix	B.Sc.(C.S)/BCA/PGDCA/Diploma in (CS/IT)/NIELIT 'A' Level(s/w)	6	8o Hrs.

6.	Advanced Diploma in Java Enterprise edition (JEE)	Diploma in Engineering, Bachelor's Degree in Science/Technology/Computers or any graduate course equivalent to these.	6	420 Hrs.
7.	Advanced Diploma in .Net Technology	Diploma in Engineering, Bachelor's Degree in Science/Technology/Computers or any graduate course equivalent to these.	6	420 Hrs.
8.	Advanced Diploma in Android Application Development	Diploma in Engineering, Bachelor's Degree in Science/Technology/Computers or any graduate course equivalent to these.	6	420 Hrs.
9.	Certified Cloud Computing and Virtualization Expert	3year diploma/Undergraduate with knowledge of any computer language, Internet Concepts and Network Concepts.	6	210 Hrs.

5. NIELIT B-Level Accredited Institutes:

OR

Colleges/Institutes running MCA/M.Sc(CS/IT):

Courses for which institutes are exempted from inspection:

All Courses exempted at Sr. no. 3 & 4 above and the following Courses:

S. No.	Course Name	Eligibility	NSQ F Level	Duratio n in Hrs.
1.	Certificate Course in DSP using MATLAB	Engineering Degree [ECE/EEE/CSE/AEI] (Undergoing also)	7	8o Hrs.
2.	Advanced Diploma in Big data Analytics	3 year diploma/ Graduation in science/ commerce/ statistics/ engineering or equivalent with good computer programming knowledge	7	480 Hrs.
3.	Networking Specialist (NS)	Senior Secondary/ Undergraduate/ Graduate possessing basic knowledge of Computers and Internet Concepts	6	780 Hrs.
4.	Advance Course in Web Application Development using LAMP.	B.E./B.Tech/NIELIT A Level/BCA or Its equivalent	7	240 Hrs.
5.	Certified Data Scientist	Graduate/Under Graduate and knowledge of any computer language	6	240 Hrs.
6.	Certificate Course in Cyber Forensic	Graduate in Science/Engineering Stream	6	500 Hrs.

6. NIELIT C-Level Accredited Institutes:

OR

Colleges/Institutes running MCA:

All Courses exempted at Sr. no. 3, 4 and 5 above.

7. NIELIT CHM-O-Level Accredited Institutes:

OR

Colleges running B.Sc (Electronics/Instrumentation and allied branches)
OR

Polytechnic Colleges running Diploma in Electronics/Instrumentation or equivalent

Courses for which institutes are exempted from inspection:

S. No.	Course Name	Eligibility	NSQ F Level	Duration
1.	Certificate Course in PC Assembly & Maintenance	10th	3	8o Hrs.
2.	Assembly & Maintenance of Personal Computer	10th/12th/ITI/Polytech nic Diploma /Graduation	3	240 Hrs.
3.	Installation & Maintenance of Photocopiers and Printers	8th/ITI	2	200 Hrs.

8. NIELIT CHM-A-Level Accredited Institutes:

OR

Colleges running B.Sc (Electronics/Instrumentation and allied branches)
OR

Polytechnic Colleges running Diploma in Electronics/Instrumentation or equivalent

Courses for which institutes are exempted from inspection:

All Courses exempted at Sr. no. 7 above and the following Courses:

S. No	Course Name	Eligibility	NSQF Level	Duratio n
1.	Advance Diploma in Hardware, Networking & Information Security [ADHNS]	10+2, 10+ITI / Graduate	5	1220 Hrs
2.	Certificate Course in System Administration using Linux	B.Sc.(CS)/BCA/PGDCA/Di ploma(CS/IT)/NIELIT 'A' Level (s/w)	5	8o Hrs.

	Certificate in Robotic			225	
3.	Programming and	10th/12th pass	4	325 Hrs.	
	Maintenance			1115.	

9. NIELIT's ESDM Accredited Training Partners:

Courses for which institutes are exempted from inspection:

NIELIT's ESDM Training Partners may apply for the courses from the below given list without undergoing inspection process for those courses for which TPs are affiliated:

S. No.	Course Name	Eligibility	NSQ F Level	Duration
1.	Post Diploma in Electronics Product Design	Three years Diploma in Electronics/ Electrical /Computer/Instrumentation or equivalent or B.Sc. (Electronics/Computer/Physics) from recognized University	6	1598 Hrs
2.	Certificate Course in VLSI Design	Engineering Degree [ECE/EEE/CSE/AEI] (Undergoing also)	5	80 Hrs.
3.	Certificate Course in Embedded System Design using ARM/Cortex Microcontroller	Undergoing B.Tech in Electronics/Electronics & Communication/Electrical	5	8o Hrs.
4.	Diploma in Installation & Repair of Consumer Electronics Products	ITI or 12th pass	4	350 Hrs.
5.	Solar Power Installation, Operation and Maintenance	10 +2, Diploma/Any Graduates	4	8o Hrs.
6.	Repair & Maintenance of Power Supply, Inverter & UPS	10+ / ITI	4	350 Hrs.
7.	Certificate course in Arduino based Embedded System Design	Diploma in Electronics/Electronics &Communication/Electrical/Electrical & Electronics/Instrumentation/ Biomedical /Computer Science/Information Technology/B.Sc in Electronics/ Instrumentation/ Computer Science/Information Technology.	4	300 Hrs
8.	Repair & Maintenance of ECG and ICCU equipments	10th Pass	3	300 Hrs.
9.	Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound	10th Pass	3	300 Hrs.

	machine)			
10.	Repair & Maintenance of Dental Equipment	10th Pass	3	300 Hrs.
11.	Certificate Course on Printed Circuit Board Design, Analysis and Manufacturing Techniques	Diploma/ B.Sc in Electronics /Telecommunication/ Instrumentation/Electrical	4	250 Hrs.
12.	Certificate course in Reliability	Pursuing B.Tech	6	240 Hrs.
13.	Solar-LED Lighting Product (Design and Manufacturing)	10th/ITI/12th	4	350 Hrs.
14.	ESM - 1 Electronic Production Technician	10th /ITI/ 12th year of Schooling	4	360 Hrs.
15.	Certificate in Robotic Programming and Maintenance	10th/12th pass	4	325 Hrs.
16.	Certificate Course in PC Assembly & Maintenance	10th	3	80 Hrs.
17.	Assembly & Maintenance of Personal Computer	I 10th/13th/III/POWTECHNIC I JINIOM3		240 Hrs.
18.	Installation & Maintenance of Photocopiers and Printers	8th/ITI	2	200 Hrs.
19.	ESD —1 Electronics Product Design Support Engineer	Diploma in Electronics/ Electrical/Mechanical/BSc. Electronics	5	432 Hrs.

Annexure-VII

REGIONAL COORDINATOR FOR NSQF COURSES

S No.	NIELIT Centre	State(s)/UT(s) cater by NIELIT Centre	Regional Coordinator	Designation	Ph no	Email Id
1	Aizawl	Mizoram	Ms NC Sundari	Sr Tech Officer	9862308488	ncsundari@nielit.gov .in
2	Ajmer	Rajasthan, Gujarat	Sh. D.RamaRao	Scientist/Engine er-D	9096106882	ramarao@nielit.gov.i n
3	Aurangabad	Daman & Diu, Goa, Maharashtra, Madhya Pradesh	Sh. Gera Sasikumar	Dean (Skill Development)	9404386156	sasi@nielit.gov.in
4	Calicut	Kerala, Karnataka, Lakshadweep	Mrs Saritha	Scientist-'E'	9447886709	saritha@nielit.gov.in
5	Chandigarh	Chandigarh	Sh. Ram Shabad	Deputy Director	9815811177, 0172-2236470	rams@nielit.gov.in
6	Delhi	Delhi	Ms. Kanchan Rani	Joint Director	9868230330	kanchan.rani@nielit. gov.in
7	Gangtok	Sikkim	Sh. Khagendra Sharma	Scientist-'C'	7431819244	khagendra@nielit.go v.in
8	Gorakhpur	Uttar Pradesh	Sh. Prashant Gupta	Deputy Director (Technical)	8317093872	prashant@nielit.gov.i n
9	Haridwar	Uttarakhand	Sh. Anurag Kumar	Director-in- charge	9958689995, 01334-235617	dir- haridwar@nielit.gov.i n
10	Imphal	Manipur	Sh. RK. Tombisna Singh	Scientist-'C'	9436628178	tombisana@nielit.go v.in
11	Itanagar	Arunachal Pradesh	Sh. Anil Kumar Shaw	Scientist-'C'	9863429681	anilshaw@nielit.gov.i n
12	Kohima	Nagaland	Sh. Orendro Kumar Singh	Technical Officer	70058 81046	orendro@nielit.gov.i n
13	Kolkata	West Bengal	Sh. Bhaskar Banerjee	Scientist-'C'	90733 04896	b.banerjee@nielit.go v.in
14	Kurukshetra	Haryana	Sh. Sanjeev Sood	Additional Director	94633 35104	soodksanjeev@nielit. gov.in
15	Patna	Bihar	Sh. Manoj Kumar	Joint Director	09631862823	mkumar@nielit.gov.i n
16	Guwahati (Main Centre)	Assam	Sh. Nitesh Kumar Singh	Scientist-'B'	8002708700	nitesh.singh@nielit.g ov.in
17	Ranchi	Jharkhand	Sh. J K Sah	Principal Technical Officer	7079584338	jksah@nielit.gov.in
18	Ropar	Punjab	Sh. Amit Jain	Joint Director(T)	9417379950	amit.jain@nielit.gov.i n
19	Shillong	Meghalaya	Ms. Vidhya Vibha	Scientist-'C'	9089011112	vidhya@nielit.gov.in
20	Shimla	Himachal Pradesh	Sh. Pratiyush Guleria,	Deputy Director	9418056332	pratiyush@nielit.gov. in

21	Srinagar	Jammu & Kashmir	Sh. V.S.Krishnamurt hy	Chief Workshop Supdt.	9419236199	vskrishnamurthy@ni elit.gov.in