

## **Training Partners Accreditation process Handbook for NIELIT's NSQF Aligned Courses in Uttar Pradesh**

National Institute of Electronics & Information Technology (NIELIT) is Human Resource (HR) & Capacity Building arm of **Ministry of Electronics & Information Technology (MeitY), Govt of India** in the area of Information Electronics and Communication Technology (IECT). 40 Centres / Extension Centres of NIELIT with a network of 700+ Accredited Centres and 8000+ Facilitation Centres are providing services for this purpose. In the state of Uttar Pradesh, NIELIT has a full-fledged Centre at Gorakhpur with an Extension Centre at Lucknow besides 300+ Accredited Centres and 3200+ Facilitation Centers. Not only Urban but Rural Population of Uttar Pradesh is also benefitted by utilizing Skill Education, Digital Services and E-Governance initiatives of both central and state government with involvement of NIELIT. NIELIT is empowering people of Uttar Pradesh through series of Skill Oriented and NSQF aligned courses in Information Technology and Electronics which provides them required skill to use Technology for their benefits.

### **NIELIT & Skill India Mission**

NIELIT is effectively playing its Role in **Skill India Mission** of the Government. To achieve its objective, NIELIT aligned 75 Skill Development Courses in Electronics (43) and Information Technology (32) areas under National Skills Qualifications Framework (NSQF) ranging from Level 2 to Level 8. The basket of NSQF aligned courses includes courses on VLSI Design & Technology, Reliability, Real Time Systems, Big Data, Cloud Computing, Cyber Forensic, Network Specialist, Electronic Product Testing, Solar-LED products, Robotics, Embedded System Design, Multimedia, Web Technologies, Programing Languages, Office Automation etc.

NSQF is a competency based framework that organizes all qualifications according to a series of levels of knowledge, skills and aptitude with recognition of prior learning & also promotes lifelong learning. NSQF is the next logical step to create a dual system which will,

unlike the current system, include more youth than it excludes. Presently, more than 100 countries have, or are in the process of developing National Qualification Frameworks. NSQF resolve the issues associated with lack of uniformity in qualifications and/or equivalence of Degrees/ Diplomas/ Certificates, which impacts the employability and mobility of students. NSQF helps in attaining desired competencies & provide returns for additional skills to further upgrade competencies resulting more employment and entrepreneurship opportunities.

### **NSQF Accreditation Scheme of NIELIT**

Now, NIELIT is offering accreditation of 44 NSQF aligned courses to meet the objectives of Skill India Mission and improve the quality of Skill Education in the country and matching it with the International Standards. These courses are of various durations and level and all the courses are listed on **National Qualification Register, [www.nqr.gov.in](http://www.nqr.gov.in)**. Any institute / College may apply and get the accreditation for these courses and run the program at their campus. All the examination and certification would be done by NIELIT. The institutions/ colleges Accredited with NIELIT or Affiliated with AICTE/ Universities and running similar programs are exempted from Inspection process for the Selected Courses and Accreditation would be granted on Self certification basis to such institutes.

### **Accreditation & Inspection Fee**

Accreditation fee is Rs. 10000/- per course and an institution can apply for maximum of 10 courses initially. For the institutions/Courses, where inspection is required to be carried out, Rs. 20000/- will have to be paid additionally for visit to institutions irrespective of number of courses applied. GST has to be paid extra as applicable.

### **Accreditation Process**

The details of courses, accreditation process and guidelines are available on our website <http://nielit.gov.in/gorakhpur/content/nsqfgkp> and [nielit.gov.in/content/nsqf](http://nielit.gov.in/content/nsqf). All the perspective training partners are advised to do ground work like arrangements of required documents & Fees, Hardware & Software infrastructure, Faculty arrangements, etc before applying for accreditation.

The portal for online application for NSQF Accreditation is yet to be operational. Till the availability of Online Portal, applications for the State of Uttar Pradesh may be sent in the prescribed format with necessary enclosures and requisite fee through Demand Draft in favour of **NIELIT Gorakhpur** payable at Gorakhpur. All such applications shall be sent in a sealed envelope supercribing “**APPLICATION FOR NSQF ACCREDITATION**” by Speed Post / Registered Post to

**Nishant Tripathi, JD(T)**  
**NIELIT Gorakhpur,**  
**Deoria Road, MMM University of Technology Campus,**  
**Gorakhpur – 273010, Uttar Pradesh**

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URL for NSQF: <http://nielit.gov.in/gorakhpur/content/nsqfgkp>

# Training Partners Handbook for NIELIT's NSQF Aligned Courses

(Version 2.0 dt: 01-Nov-2021)



National Institute of Electronics and Information Technology, Gorakhpur  
(Ministry of Electronics and Information Technology, GoI)

Web Site: [www.nielit.gov.in/gorakhpur](http://www.nielit.gov.in/gorakhpur)

Deoria Road, Gorakhpur- 273010

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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 27<sup>th</sup> 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](http://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)   |
|----------|---|---|--|
| <b>A</b> | 10,000/- + GST (as applicable)                | Not Applicable  | <ul style="list-style-type: none"> <li>a) Copy of the Accreditation letter issued by NIELIT</li> <li>b) Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution.</li> </ul>   |
| <b>B</b> | 10,000/- + GST (as applicable)                | Not Applicable  | <ul style="list-style-type: none"> <li>a) Affiliation letter issued by the respective approving body of the institution</li> <li>b) Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution.</li> </ul>   |
| <b>C</b> | 10,000/- + GST (as applicable)                | 20,000/- + GST (as applicable) per location per visit | <ul style="list-style-type: none"> <li>a) Documents with regard to registration and the legal status of the institute (registration certificate, bye-laws, rules and regulations, MoA, board resolutions etc.)</li> <li>b) Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution.</li> <li>c) Documents with regard to premises (lease agreement / ownership deed)</li> <li>d) Corporate structure / details of the institute (list of proprietor / partners / Directors /Trustee, etc.)</li> <li>e) PAN Card and GST Certificate of the Institute</li> <li>f) List of books and magazines available at the institute.</li> <li>g) Photograph and Unique Identification document of the faculty</li> <li>h) Signature of the authorized signatory of the institute</li> </ul> |

**Note:**

- a) **\*At present GST is 18%.**
- b) **All the payment should be made online.**
- c) *Fee once paid is not refundable under any circumstances.*

## 6. ELIGIBILITY OF THE INSTITUTIONS FOR CATEGORY 'C'

1. **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 **self certification basis** 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:

➤ **PROPRIETORSHIP CONCERN :** 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.

### **Documents required for establishing the necessary links of the ownership of the proprietorship concern.**

1) 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

➤ **PARTNERSHIP:** 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

➤ **SOCIETY / NGO :** 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)

➤ **COMPANY:** 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 Gorakhpur**, 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 02 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.nqr.gov.in](http://www.nqr.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](http://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 ACCREDITED INSTITUTE**

- i. An accredited institute can initiate admission process and classes for the NSQF Aligned courses in consultation with **NIELIT Gorakhpur**.
- 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, NIELIT Gorakhpur** 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**

| <b>S No</b> | <b>Course Code</b> | <b>Course Name</b>   | <b>Level</b> | <b>Duration in hours</b> |
|-------------|--------------------|--|--------------|--------------------------|
| 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/L3/005   | Certificate Course in PC Assembly & Maintenance                        | 3            | 80                       |
| 24          | NIELIT/IT/L5/014   | Certified Graphic Designer   | 5            | 80                       |

|    |                  |   |   |     |
|----|------------------|---|---|-----|
| 25 | NIELIT/IT/L5/015 | Certified Audio Visual Designer   | 5 | 80  |
| 26 | NIELIT/IT/L5/016 | Certified 2D Animator   | 5 | 80  |
| 27 | NIELIT/RM/2/46   | Repair & Maintenance of ECG and ICCU equipments   | 3 | 300 |
| 28 | NIELIT/RM/4/48   | Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine)                  | 3 | 300 |
| 29 | NIELIT/RM/3/47   | Repair & Maintenance of Dental Equipment  | 3 | 300 |
| 30 | NIELIT/HW/4/90   | Assembly & Maintenance of Personal Computer   | 3 | 240 |
| 31 | NIELIT/RE/2/89   | Solar-LED Lighting Product ( Design and Manufacturing)                                    | 4 | 350 |
| 32 | NIELIT/RA/4/43   | Installation & Maintenance of Photocopiers and Printers                                   | 2 | 200 |
| 33 | NL/M/L4/C076     | ESM - 1 Electronic Production Technician  | 4 | 360 |
| 34 | NIELIT/RA/5/44   | Certificate in Robotic Programming and Maintenance  | 4 | 325 |
| 35 | NIELIT/EM/L5/007 | ESD –1 Electronics Product Design Support Engineer  | 5 | 432 |
| 36 | NIELIT/EM/L4/014 | Certificate Course on Printed Circuit Board Design ,Analysis and Manufacturing Techniques | 4 | 250 |
| 37 | NIELIT/ES/L5/024 | Certificate Course in VLSI Design   | 5 | 80  |
| 38 | NIELIT/IT/L6/029 | Certified Cloud Computing and Virtualization Expert                                       | 6 | 210 |
| 39 | NIELIT/IT/L7/030 | Certificate Course in DSP using MATLAB  | 7 | 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  |
| 44 | NIELIT/IT/L6/023 | Advanced Diploma in .Net Technology   | 6 | 420 |





National Institute of Electronics and Information Technology

## FORMAT FOR APPLYING ACCREDITATION TO RUN NSQF ALIGNED COURSES

Date: \_\_\_\_\_

To

The Executive Director,  
NIELIT Gorakhpur,  
Deoria Road, Gorakhpur – 273010, U.P.

**Subject: APPLICATION FOR ACCREDITATION WITH NIELIT FOR CONDUCTING NSQF ALIGNED COURSES**

Dear Sir/ Madam,

I \_\_\_\_\_  
(Name & Designation of the Authorized person) S/o / D/o/  
W/o \_\_\_\_\_ and R/o  
\_\_\_\_\_ (address of  
the Authorized person) is the authorised signatory of the institute

\_\_\_\_\_ (Name and address of the institute). The institute is interested in affiliation with NIELIT for conducting NSQF aligned course of NIELIT and falls under following category:

CATEGORY '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<br>Name of the Program: NCPUL/-----<br>----- |                    |                           |

CATEGORY 'B' 

|    | COURSE ACCREDITED FOR   | NAME OF APPROVING BODY | VALIDITY OF 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. | <i>Institutes running BCA / BSc (CS /IT/Electronics) or higher courses under Universities</i>         |                        |  |

CATEGORY 'C'

|    | LEGAL STATUS OF INSTITUTE<br>(PROPRIETORSHIP /<br>PARTNERSHIP FIRM / SOCIETY /<br>TRUST / COMPANY/ ETC.) | NAME OF<br>APPROVING<br>BODY | REGISTRATIONNUMBER<br>AND VALIDITY OF<br>REGISTRATION |
|----|--|------------------------------|---|
| 1. |  |                              |   |

I, on behalf of the institute \_\_\_\_\_, hereby undertake that the institute fulfills the norms for accreditation as mentioned in this document. The institute is interested to apply for affiliation with NIELIT for the following Courses:

| S. No. | Code | Name of Course | Hours | Whether this course is exempted from inspection as per Annexure VI (Yes/No) |
|--------|------|----------------|-------|---|
| 1      |      |                |       |   |
| 2      |      |                |       |   |
| 3      |      |                |       |   |

I also undertake that the institute has adequate Building, infra-structure, support staff and faculty to conduct the above courses. The institute also has the tie-ups with the industry for placement of the candidates after successful completion of the training. The detail of the fee submitted online for the affiliation for above mentioned courses is as under:

| Number of courses<br>(A) | Fees per course (in Rs.)<br>(B) | Inspection fees (if applicable) (in Rs.)<br>(C) | Total fees (in Rs.)<br>(D) |
|--------------------------|---------------------------------|---|----------------------------|
|                          |                                 |   |                            |

I am aware that In the event of deliberate non-disclosure / misrepresentation of vital information or supplying misleading information by the institute may result in rejection of accreditation / cancellation of the accreditation granted, along with forfeiture of the fee and possible punitive action as per the decision and discretion of NIELIT Gorakhpur may be taken.

With regards,

Signature with date: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

e-mail: \_\_\_\_\_

Seal of Institute

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

\*At present GST is 18%

**ANNEXURE III**

**LIST OF SOFTWARE REQUIREMENTS FOR NSQF ALIGNED COURSES**

| S.No   | Course Name  | Software requirement   |  |  |
|--|--|--|--|--|
| 1  | Post Diploma in Electronics Product Design   | Application software for Interfacing of Microcontroller kit to PCs, RTOS (Free License like Free-RTOS etc)   |  |  |
| 2  | Advance Diploma in Hardware ,Networking & Information Security [ADHNS]   | <table border="0"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>1.Windows Server 2012 R2</li> <li>2. Windows 7/8</li> <li>3. RHEL 7 or CentOS 7 (Open Source)</li> <li>4. VMWare ESXi Server ( Free Edition)</li> <li>5. Oracle Virtual Box (Open Source) or Vmware Workstation Player 14.0 (Free for Personal Use)</li> <li>6. MS Office or Open Source Equivalent</li> <li>7. Proxy Server Software (Open Source)</li> <li>8. Anti-Virus</li> <li>9. Wireshark (Open Source)</li> <li>10. Nessus(Open Source)</li> <li>11. NMap/Zenmap(Open Source)</li> <li>12. Snort IDS (Open Source)</li> <li>13. Metasploit Framework (Open Source)</li> <li>14. John the Ripper(Open Source)</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>15. Hping(Open Source)</li> <li>16. Burp Suite (Open Source)</li> <li>17. Kali Linux(Open Source)</li> <li>18. C/C++ Compiler(Open Source)</li> <li>19.Java Compiler(Open Source)</li> <li>18.LAMP/WAMP Software</li> </ul> <p><b>Note:</b> 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.</p> </td> </tr> </table> | <ul style="list-style-type: none"> <li>1.Windows Server 2012 R2</li> <li>2. Windows 7/8</li> <li>3. RHEL 7 or CentOS 7 (Open Source)</li> <li>4. VMWare ESXi Server ( Free Edition)</li> <li>5. Oracle Virtual Box (Open Source) or Vmware Workstation Player 14.0 (Free for Personal Use)</li> <li>6. MS Office or Open Source Equivalent</li> <li>7. Proxy Server Software (Open Source)</li> <li>8. Anti-Virus</li> <li>9. Wireshark (Open Source)</li> <li>10. Nessus(Open Source)</li> <li>11. NMap/Zenmap(Open Source)</li> <li>12. Snort IDS (Open Source)</li> <li>13. Metasploit Framework (Open Source)</li> <li>14. John the Ripper(Open Source)</li> </ul> | <ul style="list-style-type: none"> <li>15. Hping(Open Source)</li> <li>16. Burp Suite (Open Source)</li> <li>17. Kali Linux(Open Source)</li> <li>18. C/C++ Compiler(Open Source)</li> <li>19.Java Compiler(Open Source)</li> <li>18.LAMP/WAMP Software</li> </ul> <p><b>Note:</b> 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.</p> |
| <ul style="list-style-type: none"> <li>1.Windows Server 2012 R2</li> <li>2. Windows 7/8</li> <li>3. RHEL 7 or CentOS 7 (Open Source)</li> <li>4. VMWare ESXi Server ( Free Edition)</li> <li>5. Oracle Virtual Box (Open Source) or Vmware Workstation Player 14.0 (Free for Personal Use)</li> <li>6. MS Office or Open Source Equivalent</li> <li>7. Proxy Server Software (Open Source)</li> <li>8. Anti-Virus</li> <li>9. Wireshark (Open Source)</li> <li>10. Nessus(Open Source)</li> <li>11. NMap/Zenmap(Open Source)</li> <li>12. Snort IDS (Open Source)</li> <li>13. Metasploit Framework (Open Source)</li> <li>14. John the Ripper(Open Source)</li> </ul> | <ul style="list-style-type: none"> <li>15. Hping(Open Source)</li> <li>16. Burp Suite (Open Source)</li> <li>17. Kali Linux(Open Source)</li> <li>18. C/C++ Compiler(Open Source)</li> <li>19.Java Compiler(Open Source)</li> <li>18.LAMP/WAMP Software</li> </ul> <p><b>Note:</b> 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.</p> |  |  |  |
| 3  | Networking Specialist (NS)   | Latest version of MS Office, Cisco Packet Tracer 7.0 or above, Windows Server 2012 with CAL, Any latest version of Fedora or CentOS Os as Linux Operating Systems  |  |  |
| 4  | Repair & Maintenance of Power Supply, Inverter & UPS   | NA   |  |  |
| 5  | Advance Diploma in Computer Application Accounting and Publishing  | Latest version of MS Office, Tally ERP, Adobe Photoshop, Pagemaker and Coral Draw  |  |  |
| 6  | Certificate course in Arduino based Embedded System  | Compiler, Emulator & Simulator softwares   |  |  |

|    |                                       |  |   |
|----|---------------------------------------|--|---|
|    | Design                                |  |   |
| 7  | Certified Data Scientist              | Hadoop, Java, MySQL, HIVE, HBASE, JAQL, PIG and Ubuntu Operating Systems   |   |
| 8  | Certificate course in Reliability     | MS-Excel, Open Source Software Open Bug, Win Bug   |   |
| 9  | Advanced Diploma in Bigdata Analytics | Hadoop, Hadoop Subprojects, Python, Ipython, R Studio, Java  |   |
| 10 | Certificate Course in Cyber Forensic  | <ol style="list-style-type: none"> <li>1. RHEL 7 or CentOS 7 (Open Source)</li> <li>2. Digital Forensics Framework(Open Source)</li> <li>3. Open Computer Forensics Architecture(Open Source)</li> <li>4. CAINE (Computer Aided Investigative Environment) (Open Source)</li> <li>5. X-Ways Forensics(Open Source)</li> <li>6. SANS Investigative Forensics Toolkit – SIFT(Open Source)</li> <li>7. The Sleuth Kit(Open Source)</li> <li>8. Volatility(Open Source)</li> <li>9. WindowsSCOPE (Open Source)</li> <li>10. Encrypted Disk Detector(Open Source)</li> <li>11. Wireshark(Open Source)</li> <li>12. Magnet RAM Capture (Open Source)</li> <li>13. Network Miner (Open Source)</li> <li>14. NMAP(Open Source)</li> <li>15. RAM Capturer(Open Source)</li> <li>16. Forensic Investigator(Open Source)</li> <li>17. HashMyFiles(Open Source)</li> <li>18. USB Write Blocker(Open Source)</li> <li>19. NFI Defraser(Open Source)</li> <li>20. ExifTool(Open Source)</li> </ol> | <ol style="list-style-type: none"> <li>21. Toolsley(Open Source)</li> <li>22. Dumpzilla(Open Source)</li> <li>23. Browser History(Open Source)</li> <li>24. ForensicUserInfo(Open Source)</li> <li>25. Black Track(Open Source)</li> <li>26. Sleuth Kit(Open Source)</li> <li>27. WebHistorian(Open Source)</li> <li>28. SmartWhois(Open Source)</li> <li>29. Neotrace(Open Source)</li> <li>30. Wireshark(Open Source)</li> <li>31. Tcpdump (Open Source)</li> <li>32. Snort(Open Source)</li> <li>33. Tcpdstat(Open Source)</li> <li>34. tcptrace(Open Source)</li> <li>35. Dcfl(Open Source)</li> <li>36. dd(Open Source)</li> <li>37. Netcat(Open Source)</li> <li>38. BinText(Open Source)</li> <li>39. Regmon, (Open Source)</li> <li>40. Tcpmon(Open Source)</li> <li>41. Netanalysis(Open Source)</li> </ol> <p>Forensic Analysis of following topics using Open Source Tools</p> <ol style="list-style-type: none"> <li>42. Disk and data capture</li> <li>43. File viewers</li> <li>44. File analysis</li> <li>45. Registry analysis</li> <li>46. Internet analysis</li> <li>47. Email analysis</li> <li>48. Mobile devices analysis</li> <li>49. Mac OS analysis</li> <li>50. Network forensics</li> <li>51. Database forensics tools</li> </ol> |
| 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<br>-Windows<br>-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<br>- Windows<br>- Linux   |

|    |   |  |
|----|---|--|
| 31 | Solar-LED Lighting Product ( Design and Manufacturing)                                    | NA   |
| 32 | Installation & Maintenance of Photocopiers and Printers                                   | Driver software.   |
| 33 | ESM - 1 Electronic Production Technician  | PCB Designing Software Tools   |
| 34 | Certificate in Robotic Programming and Maintenance  | Robot simulator(robo sim)  |
| 35 | ESD –1 Electronics Product Design Support Engineer  | PCB Designing and Packaging tools and software<br>VLSI & Embedded Development and Designing Software   |
| 36 | Certificate Course on Printed Circuit Board Design ,Analysis and Manufacturing Techniques | 1. PCB Schematic and Layout Designing Software.<br>2. 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.**

LIST OF HARDWARE REQUIREMENTS FOR NSQF ALIGNED COURSES

| S. No | Course Name  | Hardware requirement   | Any other specific requirement 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<br>Desktops (8 Nos)  | 02 Sets of Equipments and trainer kits               |
| 2     | Advance Diploma in Hardware ,Networking & Information Security [ADHNS] | <ol style="list-style-type: none"> <li>1. 8 Nos. Desktop PC (16 GB RAM, Intel i7, Intel VT 64 bit support)</li> <li>2. Wireless Access Point (4 Nos)</li> <li>3. Wireless LAN Card USB/PCI (8 Nos)</li> <li>4. Unmanaged Switch 8/16/24 ports (2 Nos)</li> <li>5. LAN Cable Tester (5)</li> <li>6. Analog Trainer (2 Nos)</li> <li>7. Digital Trainer (2 Nos)</li> <li>8. Set of screw Driver set</li> <li>9. Wire stripper</li> <li>10. DVD Writer</li> <li>11. Breadboard (5 Nos)</li> <li>12. Multimeter(5 Nos)</li> <li>13. Wire Crimpers (Crimping Tool)</li> <li>14. UTP Cables</li> <li>15. RJ-45 connectors</li> <li>16. Punch Down Tools</li> <li>17. Soldering Iron (2 nos)</li> <li>18.Scanner(1 Nos)</li> <li>19.Printer LaserJet (1 Nos)</li> </ol> <p><b>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.</b></p> | Consumable & other items as per requirements         |
| 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.  | Consumable & other items as per requirements         |

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



|    |   |  |  |
|----|---|--|--|
| 10 | Certificate Course in Cyber Forensic                | <ol style="list-style-type: none"> <li>1. 8 Desktop PC with 16 GB RAM with Intel i7, Intel VT 64 bit support or similar</li> <li>2. Wireless Access Point (4 Nos)</li> <li>3. Wireless LAN Card USB/PCI (8 Nos)</li> <li>4. Unmanaged Switch 8/16/24 ports (2 Nos)</li> </ol>  |  |
| 11 | PG Diploma in IoT                                   | <ol style="list-style-type: none"> <li>1. 8 PCs with 4 GB RAM &amp; latest configuration,</li> <li>2. Arduino (Uno or Mega)</li> <li>3. Node MCU (ESP 8266)</li> <li>4. Raspberry Pi</li> <li>5. Zigbee</li> <li>6. 8051</li> <li>7. ARM Cortex</li> <li>8. Sensors, resistors, capacitor</li> <li>9. Mounts and Joints</li> </ol>   | 02 Sets of Equipment s, Consumable & other items as per requirements |
| 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<br>Capacitor of different types<br>Transistors – BC 546, BC 547, SL 100, 2N3055<br>Rectifier Diode<br>Step down Transformers of different ratings<br>Zener Diode of different values<br>LED of different colors<br>Electronics & Electrical Tool Kit (5 nos)<br>3 Pin Voltage Regulators(7805,7905,7812,7912) (3 nos each)<br>Connecting wires<br>Logic GATE ICs<br>PWM IC's (TL 494, LD7575PS,DAP008)<br>OPAM/Comparator(LM 324,LM 339)<br>Digital Multimeter (5 nos)<br>Digital Storage Oscilloscope, 200 Mhz (minimum 1 nos)<br>DC Regulated Power Supply (0-15V, 10 A)<br>Linear & Digital IC Tester (2 nos)<br>Clamp meter (AC/DC) (2 nos)<br>Soldering Iron (5 nos)<br>Solder Wire(80/20)<br>Soldering Flux(liquid/paste)<br>Microwatt Soldering Iron (3 nos)<br>Desoldering Station (2 nos)<br>Desoldering Pump (2 nos)<br>Power Inverter sets (2 nos)<br>Stabilizer/CVT(2 nos)<br>Battery Charger (2 nos)<br>Solar panels of different wattages & types (min. 5 nos) | Consumable & other items as per requirements                         |

|    |   |  |   |
|----|---|--|---|
| 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, Consumable & other items as per requirements |
| 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 & Maintenance                          | Latest PC Trainer Kit with all accessories – 2<br>Old working PCs - 5<br>Soldering and De-soldering Station - 2<br>Oscilloscope -1<br>Digital Multi-meter - 5<br>Digital & Analog IC Tester -2<br>Power Supply 0-30 V - 2<br>Small screw Driver kit -5<br>Different types of small Plair set -5<br>De-soldering pump - 2<br>Soldering wire – as per requirement<br>Tweezer -5<br>Bond make liquid flux 0% some respective components etc | Consumable & other items as per requirements |
| 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  | Consumable & other items as per requirements |
| 28 | Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine) | X-Ray Machine, Ultrasound Machine IC Trainers, Soldering & deSoldering Kit, Power Supply, CRO  | Consumable & other items as per requirements |
| 29 | Repair & Maintenance of Dental Equipment                                 | Dental Chair, Ultrasonic Scalar, Compressor, 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<br>Old working PCs - 5<br>Soldering and De-soldering Station - 2<br>Oscilloscope -1<br>Digital Multi-meter - 5<br>Digital & Analog IC Tester -2<br>Power Supply 0-30 V - 2<br>Small screw Driver kit -5<br>Different types of small Plair set -5<br>De-soldering pump - 2<br>Soldering wire – as per requirement<br>Tweezer -5  | Consumable & other items as per requirements |

|    |   |  |  |
|----|---|--|--|
|    |   | Bond make liquid flux 0% some respective components etc. – as per requirement  |  |
| 31 | Solar-LED Lighting Product ( Design and Manufacturing ) | Resistance of different value & Wattage ratings<br>Capacitor of different types<br>Transistors – BC 546, BC 547, SL 100, 2N3055<br>Rectifier Diode<br>Step down Transformers of different ratings<br>Zener Diode of different values<br>LED of different colors and wattages for lighting purposes<br>Electronics & Electrical Tool Kit (5 nos)<br>3 Pin Voltage Regulators(7805,7905,7812,7912)- 3 nos each<br>Connecting wires<br>Logic GATE ICs<br>PWM IC's (TL 494, LD7575PS,DAP008)<br>OPAM/Comparator(LM 324,LM 339)<br>Digital Multimeter (5 nos)<br>CRO (2 nos)<br>Function Generator (2 nos)<br>DC Regulated Power Supply (0-15V, 10 A) (2 nos)<br>Linear & Digital IC Tester (2 nos)<br>Clamp meter (AC/DC) (2 nos)<br>Soldering Iron (5 nos)<br>Solder Wire(80/20)<br>Soldering Flux(liquid/paste)<br>Microwatt Soldering Iron (3 nos)<br>Desoldering Station (2 nos)<br>Desoldering Pump (2 nos)<br>Power Inverter sets (2 nos)<br>Stabilizer/CVT(2 nos)<br>Battery Charger (2 nos)<br>Solar panels of different wattages & types (min. 5 nos)<br>Bread board (10 nos minimum)<br>Lux meter (2 nos)<br>Hot air gun (2 nos)<br>Flux Remover (2 nos) | Consumable & other items as per requirements |
| 32 | Installation & Maintenance of Photocopiers and Printers | 2 PCs with latest configuration & 4 GB RAM,<br>4 sets Electrical and Electronic toolkit, 01 Photocopier Machine and 02 Printer (01 Inkjet and 01 Laser Printer-Colored).   | Consumable & other items as per requirements |
| 33 | ESM - 1 Electronic Production Technician                | Soldering Iron (5 nos)<br>CRO (2 nos)<br>Function Generator (2 nos)<br>Magnifier with Lamp (5 nos)<br>Soldering/de-soldering station (2 nos)<br>Solder Wire(80/20)   | Consumable & other items as per requirements |

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

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|    | Techniques  | Drilling Machine<br>Through Hole Plating Machine<br>Mini Hot Air Oven<br>Silkscreen (Screen Printing) Setup<br>Temperature Controlled Soldering/ Desoldering /Repair & Rework Station<br>Surface Mount Technology (SMT) Setup<br>a. Stencil Printer<br>b. Manual Assisted Pick and & Place Machine<br>c. Table top Reflow Oven   | Assembly and Rework Kits as per requirement  |
| 37 | Certificate Course in VLSI Design   | 2 nos. FPGA Development Kit from Xilinx with complete accessories<br>1 nos Logical Analyzer<br>CROs (2 nos)<br>Function Generator (2 nos)<br>2 set of Testing Equipment's<br>8 Desktop PC's latest configuration with 8 GB RAM with graphics card, speaker and Mic<br>1 High end Server with 16 GB RAM for hosting tool licenses | Consumable & other items as per requirements |
| 38 | Certified Cloud Computing and Virtualization Expert                           | 8 PCs with latest configuration & 8 GB RAM & with networking support<br>1 High end Server with 16 GB RAM.  |  |
| 39 | Certificate Course in DSP using MATLAB  | 8 PCs with latest configuration & 8 GB RAM   |  |
| 40 | Certificate Course in Embedded System Design using ARM/Cortex Microcontroller | 2 nos ARM/ Cortex Microcontroller trainer kit with complete accessories such as LCD, 7 segment, stepper motor, sensors<br>8 PCs with latest configuration & 8 GB RAM   |  |
| 41 | Certificate course in CAD using CREO  | 8 PCs with latest configuration & 8 GB RAM & Graphics card, Speaker & microphone.  |  |
| 42 | Certificate Course in System Administration using Linux                       | 8 PCs with latest configuration & 4 GB RAM with internet   |  |
| 43 | Certificate Course in System Administration using Unix                        | 8 PCs with latest configuration & 4 GB RAM with internet   |  |

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

**FACULTY REQUIREMENTS FOR NSQF ALIGNED COURSES**

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



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|----|---|---|---|---|
| 7  | Certified Data Scientist                            | BE/B.Tech( Computer Science/Electronics) /MCA/B Level   | a. M.Sc(Computer Science) / Masters in Statistics/ B Level<br>b. knowledge of Java Programming and Databases              |   |
| 8  | Certificate course in Reliability                   | BE/ B.Tech. (Electronics or equivalent)   |   | B.Tech./M.Sc./Diploma in Electronics  |
| 9  | Advanced Diploma in Bigdata Analytics               | a. B.Tech (CS/IT)/MCA/M.Sc. Computer Science/NIELIT B Level<br>b. knowledge in Hadoop, Hadoop subprojects, R, and Python<br>or<br>PG/Adv Diploma certification in BigData from NIELIT |   | Graduation/Diploma in computer science with knowledge in Hadoop, Hadoop subprojects, R, and Python<br>or<br>PG/Adv Diploma certification in BigData from NIELIT |
| 10 | Certificate Course in Cyber Forensic                | a. Engineering Graduate( CS/IT) /Science Graduate /MCA/B Level<br>b. CCFP(ISC2) /NIELIT CCFP/EC Council CHFI  | a. B.Tech. (Computer/Electronics) /MCA /B Level<br>b. knowledge of Cyber Forensic & Cyber Law. Certification is Desirable |   |
| 11 | PG Diploma in IoT                                   | B.Tech/B.E. In ECE/EEE/EI/CSE/IT with one year relevant experience.   | B.Tech/B.E. In ECE/EEE/EI/CSE/IT  |   |
| 12 | Certified Android Apps Developer                    | a. B.Tech/MCA/ NIELIT -A/B Level/MSc(Computer)/PGDCA<br>b. Knowledge of Android Programming and JAVA  |   |   |
| 13 | Solar Power Installation, Operation and Maintenance | BE/B.Tech (Electrical, Electronics & ECE ) or MSc (Electronics) with 6 month relevant field experience.   |   |   |
| 14 | Certificate Course in Linux, Apache, MySQL          | a. B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/NIELIT 'A' Level(IT)<br>b. 6 month experience in Linux, Apache, MySQL and PHP area.   |   |   |

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|    | and PHP   |   |  |  |
| 15 | Certified Multimedia Developer                                    | (a) B.Tech.(CSE/IT) / NIELIT-A/B Level/ /MCA/ PGDCA<br>(b)with one year certification in Multimedia<br>or<br>Graduate with NIELIT MAT-O Level |  | Graduate with MAT-O Level<br>or<br>1 year course in Multimedia or Animation  |
| 16 | Advance Course in Web Application Development using LAMP          | a. B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/NIELIT 'A' Level(IT)<br>b. 6 month experience in Linux, Apache, MySQL and PHP area.                         |  | B.Sc.(CS/IT)/BCA/PGDCA/NIELIT 'A' Level(IT), with knowledge in LAMP  |
| 17 | Advanced Diploma in Java Enterprise Edition (JEE)                 | a.BE/BTech (CS/IT)/MSc(IT/Computer Science), MCA / NIELIT B Level<br>b. knowledge in JAVA & JEE   | a.BE/BTech/MSc(IT/Computer Science), MCA, NIELIT B Level<br>b. excellent knowledge in JAVA & JEE | a. 3 Year Diploma (IT/Computer Science)/ A Level(IT)<br>b.with knowledge in JAVA & JEE /<br>or<br>PG/Adv. Diploma certification in Java/JEE /Software Technology from NIELIT |
| 18 | Certification Course in Data Entry and Office Automation.         | B.Tech/BCA/BSc(IT/CS)/ NIELIT A/B Level   |  | BSc(IT/CS)/A Level   |
| 19 | Advanced Diploma in Android Application Development               | a. BE/BTech/MSc(IT/Computer Science), MCA / B Level<br>b. knowledge in JAVA & Android programming   |  | a.3 Year Diploma (IT/Computer Science)/ A Level<br>b. knowledge in JAVA, Android programming   |
| 20 | Diploma in Installation & Repair of Consumer Electronics Products | BE / 3 yr. Diploma (Electrical/ Electronics/ ECE/Instrumentation ) or MSc Electronics   |  | ITI / 3 yr. Diploma in relevant discipline.  |

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

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|    | machine)  |   |  |   |
| 29 | Repair & Maintenance of Dental Equipment                | a.M.Sc.(Electronics)/ 3 year Diploma in Electrical/ Electronics / Instrumentation<br>b. 1 year experience in relevant field                     |  | MSc (Electronics) / 3 year Diploma in (Electrical/ Electronics / Instrumentation) with 6 months experience in relevant field.       |
| 30 | Assembly & Maintenance of Personal Computer             | 3 yr. Diploma in (Computer, Electronics & ECE )<br>or<br>NIELIT ADHNS   |  | Diploma in CSE , Electronics & ECE,<br>or<br>NIELIT certified Certificate Course in PC Assembly & Maintenance<br>or<br>NIELIT ADHNS |
| 31 | Solar-LED Lighting Product ( Design and Manufacturing)  | BE/B.Tech (Electrical, Electronics & ECE ) or MSc (Electronics) with 6 month relevant experience.   |  | 3 yr. Diploma (Electrical , Electronics or ECE ) or B. Sc (Electronics)   |
| 32 | Installation & Maintenance of Photocopiers and Printers | a.M.Sc.(Electronics)/ 3 year Diploma in Electrical/ Electronics / Instrumentation<br>b. 1 year experience in relevant field                     |  | MSc (Electronics) / 3 year Diploma in (Electrical/ Electronics / Instrumentation) with 6 months experience in relevant field.       |
| 33 | ESM - 1 Electronic Production Technician                | B.E. /B.Tech (ECE/EE/EEE)<br>or M.Sc (Electronics)  |  | 3 yr Diploma (ECE/ EE/ EEE)<br>or<br>B.Sc (Electronics)   |
| 34 | Certificate in Robotic Programming and Maintenance      | BTech (Mechanical/Electronics) or M.Sc (Electronics) with 1 year experience in relevant areas or Certification from NIELIT in the relevant area |  | 3 yr. Diploma (Mechanical/Electronics)<br>or<br>B.Sc (Electronics)<br>or<br>Certification from NIELIT in the relevant area          |
| 35 | ESD –1 Electronic Product Design Support Engineer       | B.E. /B.Tech (ECE/EE/EEE)<br>or M.Sc (Electronics)  |  | 3 yr Diploma (ECE/ EE/ EEE)<br>or B.Sc (Electronics)  |

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| 36 | Certificate Course on Printed Circuit Board Design ,Analysis and Manufacturing Techniques | a. BE/B.Tech in Electronics or M.Sc. (Electronics) or Post Diploma in EPD of NIELIT<br>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<br>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 Computing and Virtualization Expert                                       | (a)BE/B.Tech( Computer Science/IT) / MCA/ NIELIT B Level<br>(b) 1 year experience in relevant field                                   |  | (a) 3 yr. Diploma( Computer Science / IT) / BCA/ NIELIT A Level<br>(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 Embedded System Design using ARM/Cortex Microcontroller             | 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 Administration using Linux                                   | B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/ NIELIT B level<br>or<br>NIELIT 'A' Level(IT), having 1 yr relevant experience                         |  |  |

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| 43 | Certificate Course in System Administration using Unix | B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/ NIELIT B Level<br>or<br>NIELIT 'A' Level(IT), having 1 yr relevant experience |  |  |
| 44 | Advanced Diploma in .Net Technology                    | B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/ NIELIT B Level<br>or<br>NIELIT 'A' Level(IT), having 1 yr relevant experience |  | BCA/B.Sc(IT) / A Level(IT)/ PGDCA / PGDST (NIELIT)/ Diploma in .Net (NIELIT) |

**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**

1. 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  | NSQF Level | Duration |
|--------|--------------------------------------|--|------------|----------|
| 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          | 80 Hrs   |
| 2.     | Certificate course in Office Automation(CCOA) | Minimum 10+2 pass        | 3          | 80 Hrs   |

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|----|---|--|---|----------|
| 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 | 80 Hrs   |
| 5. | Certified Audio Visual Designer                                   | 12th passed candidates   | 5 | 80 Hrs.  |
| 6. | Certified 2D Animator   | 12th passed candidates   | 5 | 80 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 | Duration |
|-------|---|---|-------------|----------|
| 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/IT)/NIELIT 'A' Level (s/w)   | 5           | 80 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           | 80 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           | 80 Hrs.  |



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| 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 | Duration in Hrs. |
|--------|---|---|-------------|------------------|
| 1.     | Certificate Course in DSP using MATLAB                    | Engineering Degree [ ECE/EEE/CSE/AEI] (Undergoing also)   | 7           | 80 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           | 80 Hrs.  |
| 2.     | Assembly & Maintenance of Personal Computer             | 10th/12th/ITI/Polytechnic 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 | Duration |
|--------|--|---|------------|----------|
| 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/Diploma(CS/IT)/NIELIT 'A' Level (s/w) | 5          | 80 Hrs.  |

|    |  |                |   |          |
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| 3. | Certificate in Robotic Programming and Maintenance | 10th/12th pass | 4 | 325 Hrs. |
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### 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           | 80 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           | 80 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   | 10th/12th/ITI/ Polytechnic Diploma / Graduation                                | 3 | 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 SCHEME IN VARIOUS STATES

| S No. | NIELIT Centre          | State(s)/UT(s) catered 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/Engineer-D        | 9096106882               | ramarao@nielit.gov.in         |
| 3     | Aurangabad             | Daman & Diu, Goa, Maharashtra, Madhya Pradesh | Sh. Gera Sasikumar      | Dean (Skill Development)    |                          | 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.gov.in       |
| 8     | Gorakhpur              | Uttar Pradesh                                 | Sh. Nishant Tripathi    | Joint Director (Technical)  | 8317093869               | nishant@nielit.gov.in         |
| 9     | Haridwar               | Uttarakhand                                   | Sh. Anurag Kumar        | Director-in-charge          | 9958689995, 01334-235617 | dir-haridwar@nielit.gov.in    |
| 10    | Imphal                 | Manipur                                       | Sh. RK. Tombisna Singh  | Scientist-'C'               | 9436628178               | tombisana@nielit.gov.in       |
| 11    | Itanagar               | Arunachal Pradesh                             | Sh. Anil Kumar Shaw     | Scientist-'C'               | 9863429681               | anilshaw@nielit.gov.in        |
| 12    | Kohima                 | Nagaland                                      | Sh. Orendro Kumar Singh | Technical Officer           | 70058 81046              | orendro@nielit.gov.in         |
| 13    | Kolkata                | West Bengal                                   | Sh. Bhaskar Banerjee    | Scientist-'C'               | 90733 04896              | b.banerjee@nielit.gov.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.in          |
| 16    | Guwahati (Main Centre) | Assam   | Sh. Nitesh Kumar Singh  | Scientist-'B'               | 8002708700               | nitesh.singh@nielit.gov.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.in       |
| 19    | Shillong               | Meghalaya                                     | Ms. Vidhya Vibha        | Scientist-'C'               | 9089011112               | vidhya@nielit.gov.in          |
| 20    | Shimla                 | Himachal Pradesh                              | Sh. Pratiyush Guleria,  | Deputy Director             |                          | pratiyush@nielit.gov.in       |
| 21    | Srinagar               | Jammu & Kashmir                               | Sh. V.S.Krishnamurthy   | Chief Workshop Supdt.       |                          | vskrishnamurthy@nielit.gov.in |