

Training Partners Handbook

for

NIELIT's NSQF Aligned Courses

(Version 1.0 dated: 01-June-2018)



National Institute of Electronics & Information Technology Ranchi

*An Autonomous Scientific Society of Ministry of Electronics and Information Technology (MeitY),
Ministry of Electronics and Information Technology, Government of India*

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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.

OBJECTIVES OF THE SCHEME

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

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

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

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

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:

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.).

Category- 'B'

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

Category-'C'

New Training Part`ners who do not fall under any of above mentioned categories.

ACCREDITATION FEES

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

The category wise accreditation fee is as given below:

Category	Course Accreditation Fee per course (in Rs.)	Inspection Fee (in Rs.)	Documents required to be submitted to respective NIELIT centers along with online application form (attested by the authorized signatory of the institute)
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A	10,000/- + GST (as applicable)	Not Applicable	<ul style="list-style-type: none"> • Copy of the Accreditation letter issued by NIELIT. • Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution.
B	10,000/- + GST (as applicable)	Not Applicable	<ul style="list-style-type: none"> • Affiliation letter issued by the respective approving body of the institution. • Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution.
C	10,000/- + GST (as applicable)	20,000/- + GST (as applicable) per location per visit	<ul style="list-style-type: none"> • Documents with regard to registration and the legal status of the institute (registration certificate, bye-laws, rules and regulations, MoA, board resolutions etc.) • Document pertaining to the nomination of the authorized signatory of the institution to deal with NIELIT issued by the management of the institution. • Documents with regard to premises (lease agreement / ownership deed) • Corporate structure / details of the institute (list of proprietor / partners / Directors /Trustee, etc.) • PAN Card and GST Certificate of the Institute • List of books and magazines available at the institute. • Photograph and Unique Identification document of the faculty • Signature of the authorized signatory of the institute

Note:

All the payment should be made online.

Fee once paid is not refundable under any circumstances.

ELIGIBILITY OF THE INSTITUTIONS FOR CATEGORY ‘C’

Processing of Application: There will be partial online scrutiny of the application using 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 authorized signatory of the institute.

The institute applying for affiliation must have the experience of running the course in the related field for at least 6 months.

Legal Status: The institute should be registered under the categories:

PROPRIETORSHIP CONCERN : An institute with legal status “Proprietorship” can be registered under the following-

- Registration/ Certificate from any Government authority as given for the Industrial / Business units such as Shop & Establishment Act.
- Registration with Registrar / Sub-Registrar.
- Registration with GST Tax or any other tax authority.

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

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)).

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:

- Registered Partnership Deed
- Registration Certificate from Registrar of firms with the documents showing the names of the partners.
- 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-

- Certificate from the Registrar of Society
- Rules and Regulations / MoA
- Resolution to nominate the authorised person (as per the terms of the Rules & Regulations/Bye Laws/MoA specifically mentioning that the 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

- Trust Deed
- Certificate of Registration of Trust
- Resolution to nominate the authorized person (as per the terms of the Trust Deed / Settlement Deed specifically mentioning that the person has been authorized to deal with NIELIT including applying for accreditation)

COMPANY: An institute with legal status “Company” has to submit the following documents:

- Certificate of Incorporation
- Memorandum of Association
- Board Resolution specifically authorizing the 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.

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;

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.

OTHER REQUIREMENTS FOR ALL CATEGORIES OF INSTITUTIONS:

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.

Faculty: The institute should comply with the norms on faculty as laid down in the Annexure V.

- ✓ Furniture for all the classrooms/labs/A-V room/library/ staff rooms etc.
- ✓ Fee charged should be reasonable, justifiable and commensurate with infrastructure and facilities offered
- ✓ Batch size should be proper and must be as per available class / lab size and other infrastructure & facilities available.
- ✓ Sustainability of the institution financially, technically, infrastructure-wise and growth-wise.
- ✓ Student administration should be of high order.
- ✓ The institute should plan periodic interactions with the industry for the placement of the candidates
- ✓ The institute must also plan a comprehensive record keeping of admission, registration, aptitude test, selection norms, candidates selected, attendance, internal evaluation, Project work etc.

PROCEDURE FOR ACCREDITATION:

Category 'A' and 'B'

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.

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.

Category 'C'

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.

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 Ranchi**, 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.

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

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.

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.

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.

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:

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.

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), whichever is earlier.

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:

For courses with duration 80 hrs to 200 hrs : 6 times in a year & will be conducted along with DLC exams.

For courses with duration 201 hrs to 300 hrs : 4 times in a year & will be conducted along with DLC exams.

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.

EVALUATION & CERTIFICATION:

Evaluation will be online or as per mentioned in Qualification File.

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.

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.

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.

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.

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.

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.

KEY RESPONSIBILITIES OF AN ACCREDITED INSTITUTE

An accredited institute can initiate admission process and classes for the NSQF Aligned courses in consultation with respective **NIELIT Centre**.

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.**

GRIEVANCES AND REPRESENTATION, IF ANY

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

GENERAL TERMS AND CONDITIONS

- Maximum number of courses offered for accreditation per Institute is initially limited to 10.
- 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.
- NIELIT will do the inspection of TPs on random basis to monitor the performance and to ensure the training quality.
- 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.
- Performance of the Training Partners will be considered for renewal and awarding accreditation to the new courses.
- TPs/Accreditation centres are not authorized to outsource the training to a third party or to conduct at any other location other than the registered training location.
- 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.
- Declaration from TPs/ Accreditation Centres are required regarding students qualification, attendance, total training hours completed etc.
- Smart class room with VC facility for on line classes and interaction.
- Training partners should have tie ups with industries for placement support.

ANNEXURE - I**LIST OF NSQF ALIGNED COURSES OF NIELIT AVAILABLE FOR ACCREDITATION**

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

FORMAT FOR APPLYING ACCREDITATION TO RUN NSQF ALIGNED COURSES

Date: _____

To

The Director In-charge,
 NIELIT Ranchi
 2nd Floor, RIADA Bhawan,
 Main Road, Ranchi-834001

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 Name of the Program: NCPUL/----- ----		

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 (PROPRIETORSHIP / PARTNERSHIP FIRM / SOCIETY / TRUST / COMPANY/ ETC.)	NAME OF APPROVING BODY	REGISTRATION NUMBER AND VALIDITY OF 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 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 (A)	Fees per course (in Rs. (B)	Inspection fees (if applicable) (in Rs.) (C)	Total fees (in Rs.) (D)
n	10,000/- + GST (as applicable) per course	20,000/- + GST (as applicable)	((A) x (B)) + (C)

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 Ranchi 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.

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="1"><tr><td>1.Windows Server 2012 R2 2. Windows 7/8 3. RHEL 7 or CentOS 7 (Open Source) 4. VMWare ESXi Server (Free Edition) 5. Oracle Virtual Box (Open Source) or Vmware Workstation Player 14.0 (Free for Personal Use) 6. MS Office or Open Source Equivalent 7. Proxy Server Software (Open Source) 8. Anti-Virus 9. Wireshark (Open Source) 10. Nessus(Open Source) 11. NMap/Zenmap(Open Source) 12. Snort IDS (Open Source) 13. Metasploit Framework (Open Source) 14. John the Ripper(Open Source)</td><td>15. Hping(Open Source) 16. Burp Suite (Open Source) 17. Kali Linux(Open Source) 18. C/C++ Compiler(Open Source) 19.Java Compiler(Open Source) 18.LAMP/WAMP Software Note: A portion of lab assignment would be covered using Portable Virtual Lab and Network Security Simulation lab which would be provided by NIELIT on payment basis to Minimise the Infrastructure Cost.</td></tr></table>	1.Windows Server 2012 R2 2. Windows 7/8 3. RHEL 7 or CentOS 7 (Open Source) 4. VMWare ESXi Server (Free Edition) 5. Oracle Virtual Box (Open Source) or Vmware Workstation Player 14.0 (Free for Personal Use) 6. MS Office or Open Source Equivalent 7. Proxy Server Software (Open Source) 8. Anti-Virus 9. Wireshark (Open Source) 10. Nessus(Open Source) 11. NMap/Zenmap(Open Source) 12. Snort IDS (Open Source) 13. Metasploit Framework (Open Source) 14. John the Ripper(Open Source)	15. Hping(Open Source) 16. Burp Suite (Open Source) 17. Kali Linux(Open Source) 18. C/C++ Compiler(Open Source) 19.Java Compiler(Open Source) 18.LAMP/WAMP Software Note: A portion of lab assignment would be covered using Portable Virtual Lab and Network Security Simulation lab which would be provided by NIELIT on payment basis to Minimise the Infrastructure Cost.
1.Windows Server 2012 R2 2. Windows 7/8 3. RHEL 7 or CentOS 7 (Open Source) 4. VMWare ESXi Server (Free Edition) 5. Oracle Virtual Box (Open Source) or Vmware Workstation Player 14.0 (Free for Personal Use) 6. MS Office or Open Source Equivalent 7. Proxy Server Software (Open Source) 8. Anti-Virus 9. Wireshark (Open Source) 10. Nessus(Open Source) 11. NMap/Zenmap(Open Source) 12. Snort IDS (Open Source) 13. Metasploit Framework (Open Source) 14. John the Ripper(Open Source)	15. Hping(Open Source) 16. Burp Suite (Open Source) 17. Kali Linux(Open Source) 18. C/C++ Compiler(Open Source) 19.Java Compiler(Open Source) 18.LAMP/WAMP Software Note: A portion of lab assignment would be covered using Portable Virtual Lab and Network Security Simulation lab which would be provided by NIELIT on payment basis to Minimise the Infrastructure Cost.			
3	Networking Specialist (NS)	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 Design	Compiler, Emulator & Simulator softwares		
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"> 1. RHEL 7 or CentOS 7 (Open Source) 2. Digital Forensics Framework(Open Source) 3. Open Computer Forensics Architecture(Open Source) 4. CAINE (Computer Aided Investigative Environment) (Open Source) 5. X-Ways Forensics(Open Source) 6. SANS Investigative Forensics Toolkit – SIFT(Open Source) 7. The Sleuth Kit(Open Source) 8. Volatility(Open Source) 9. WindowsSCOPE (Open Source) 10. Encrypted Disk Detector(Open Source) 11. Wireshark(Open Source) 12. Magnet RAM Capture (Open Source) 13. Network Miner (Open Source) 14. NMAP(Open Source) 15. RAM Capturer(Open Source) 16. Forensic Investigator(Open Source) 17. HashMyFiles(Open Source) 18. USB Write Blocker(Open Source) 19. NFI Defraser(Open Source) 20. ExifTool(Open Source) 	<ol style="list-style-type: none"> 21. Toolsley(Open Source) 22. Dumpzilla(Open Source) 23. Browser History(Open Source) 24. ForensicUserInfo(Open Source) 25. Black Track(Open Source) 26. Sleuth Kit(Open Source) 27. WebHistorian(Open Source) 28. SmartWhois(Open Source) 29. Neotrace(Open Source) 30. Wireshark(Open Source) 31. Tcpdump (Open Source) 32. Snort(Open Source) 33. Tcpsstat(Open Source) 34. tcptrace(Open Source) 35. Dcfl(Open Source) 36. dd(Open Source) 37. Netcat(Open Source) 38. BinText(Open Source) 39. Regmon, (Open Source) 40. Tcpmon(Open Source) 41. Netanalysis(Open Source) <p>Forensic Analysis of following topics using Open Source Tools</p> <ol style="list-style-type: none"> 42. Disk and data capture 43. File viewers 44. File analysis 45. Registry analysis 46. Internet analysis 47. Email analysis 48. Mobile devices analysis 49. Mac OS analysis 50. Network forensics 51. Database forensics tools
11	PG Diploma in IoT	Arduino IDE, Keil, XCTU	
12	Certified Android Apps Developer	Latest Android Studio	
13	Solar Power Installation,	NA	

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

ANNEXURE IV**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, Arduino), Bread-Board, Multimeter, CRO, Soldering Station, Analog and Digital ICs, Passive Components Desktops (8 Nos)	02 Sets of Equipments and trainer kits
2	Advance Diploma in Hardware ,Networking & Information Security [ADHNS]	1. 8 Nos. Desktop PC (16 GB RAM, Intel i7, Intel VT 64 bit support) 2. Wireless Access Point (4 Nos) 3. Wireless LAN Card USB/PCI (8 Nos) 4. Unmanaged Switch 8/16/24 ports (2 Nos) 5. LAN Cable Tester (5) 6. Analog Trainer (2 Nos) 7. Digital Trainer (2 Nos) 8. Set of screw Driver set 9. Wire stripper 10. DVD Writer 11. Breadboard (5 Nos) 12. Multimeter(5 Nos) 13. Wire Crimpers (Crimping Tool) 14. UTP Cables 15. RJ-45 connectors 16. Punch Down Tools 17. Soldering Iron (2 nos) 18. Scanner(1 Nos) 19. Printer LaserJet (1 Nos) Note. A portion of lab assignment would be covered using Portable Virtual Lab and Network Security Simulation lab which would be provided by NIELIT on payment basis to minimize the Infrastructure Cost.	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 Capacitor of different types Transistors – BC 546, BC 547, SL 100, 2N3055 Rectifier Diode Step down Transformers of different ratings Zener Diode of different values LED of different colors Electronics & Electrical Tool Kit (5 nos) 3 Pin Voltage Regulators(7805,7905,7812,7912) -3 nos each Logic GATE ICs Connecting Wires Digital Multimeter (5 nos) Digital Storage Oscilloscope, 200 Mhz (minimum 1 nos) Soldering Iron (5 nos) Solder Wire(80/20) Soldering Flux(liquid/paste) Microwatt Soldering Iron (3 nos) Desoldering Station (2 nos) Desoldering Pump (2 nos) Inverter (1 nos) UPS (1 nos) Stabilizer/CVT (2 nos) Battery Charger (2 nos)	Consumable & other items as per requirements
5	Advance Diploma in Computer Application Accounting and Publishing	8 PCs 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	1. 8 Desktop PC with 16 GB RAM with Intel i7, Intel VT 64 bit support or similar. 2. Wireless Access Point (4 Nos) 3. Wireless LAN Card USB/PCI (8 Nos) 4. Unmanaged Switch 8/16/24 ports (2 Nos)	
11	PG Diploma in IoT	1. 8 PCs with 4 GB RAM & latest configuration, 2. Arduino (Uno or Mega) 3. Node MCU (ESP 8266) 4. Raspberry Pi 5. Zigbee 6. 8051 7. ARM Cortex 8. Sensors, resistors, capacitor	02 Sets of Equipments, Consumable & other items as per requirements

		9. Mounts and Joints	
12	Certified Android Apps Developer	8 High end PC's with 16 GB RAM	
13	Solar Power Installation, Operation and Maintenance	Resistance of different value & Wattage ratings Capacitor of different types Transistors – BC 546, BC 547, SL 100, 2N3055 Rectifier Diode Step down Transformers of different ratings Zener Diode of different values LED of different colors Electronics & Electrical Tool Kit (5 nos) 3 Pin Voltage Regulators(7805,7905,7812,7912) (3 nos each) Connecting wires Logic GATE ICs PWM IC's (TL 494, LD7575PS,DAP008) OPAM/Comparator(LM 324,LM 339) Digital Multimeter (5 nos) Digital Storage Oscilloscope, 200 Mhz (minimum 1 nos) DC Regulated Power Supply (0-15V, 10 A) Linear & Digital IC Tester (2 nos) Clamp meter (AC/DC) (2 nos) Soldering Iron (5 nos) Solder Wire(80/20) Soldering Flux(liquid/paste) Microwatt Soldering Iron (3 nos) Desoldering Station (2 nos) Desoldering Pump (2 nos) Power Inverter sets (2 nos) Stabilizer/CVT (2 nos) Battery Charger (2 nos) 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	8 PCs with latest configuration & 4 GB RAM & Graphics card, Speaker & microphone.	

	(JEE)		
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(CCO A)	8 PCs with latest configuration & 4 GB RAM.	
23	Certificate Course in PC Assembly & Maintenance	Latest PC Trainer Kit with all accessories – 2 Old working PCs - 5 Soldering and De-soldering Station - 2 Oscilloscope -1 Digital Multi-meter - 5 Digital & Analog IC Tester -2 Power Supply 0-30 V - 2 Small screw Driver kit -5 Different types of small Plair set -5 De-soldering pump - 2 Soldering wire – as per requirement Tweezer -5 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, Comprassor, Dental X-Ray, IC Trainers, Soldering & deSoldering Kit, Power Supply, CRO	Consumable & other items as per requirements
30	Assembly & Maintenance of Personal Computer	Latest PC Trainer Kit with all accessories – 2 Old working PCs - 5 Soldering and De-soldering Station - 2 Oscilloscope -1 Digital Multi-meter - 5 Digital & Analog IC Tester -2 Power Supply 0-30 V - 2 Small screw Driver kit -5 Different types of small Plair set -5 De-soldering pump - 2 Soldering wire – as per requirement Tweezer -5 Bond make liquid flux 0% some respective components etc. – as per requirement	Consumable & other items as per requirements
31	Solar-LED Lighting Product (Design and Manufacturing)	Resistance of different value & Wattage ratings Capacitor of different types Transistors – BC 546, BC 547, SL 100, 2N3055 Rectifier Diode Step down Transformers of different ratings Zener Diode of different values LED of different colors and wattages for lighting purposes Electronics & Electrical Tool Kit (5 nos) 3 Pin Voltage Regulators(7805,7905,7812,7912)- 3 nos each Connecting wires Logic GATE ICs PWM IC's (TL 494, LD7575PS,DAP008) OPAM/Comparator(LM 324,LM 339) Digital Multimeter (5 nos) CRO (2 nos) Function Generator (2 nos) DC Regulated Power Supply (0-15V, 10 A) (2 nos) Linear & Digital IC Tester (2 nos) Clamp meter (AC/DC) (2 nos) Soldering Iron (5 nos) Solder Wire(80/20) Soldering Flux(liquid/paste) Microwatt Soldering Iron (3 nos) Desoldering Station (2 nos) Desoldering Pump (2 nos) Power Inverter sets (2 nos) Stabilizer/CVT (2 nos) Battery Charger (2 nos) Solar panels of different wattages & types (min. 5 nos) Bread board (10 nos minimum) Lux meter (2 nos) Hot air gun (2 nos) Flux Remover (2 nos)	Consumable & other items as per requirements

32	Installation & Maintenance of Photocopiers and Printers	2 PCs with latest configuration & 4 GB RAM, 4 sets Electrical and Electronic toolkit, 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) CRO (2 nos) Function Generator (2 nos) Magnifier with Lamp (5 nos) Soldering/de-soldering station (2 nos) Solder Wire(80/20) Soldering Flux(liquid/paste) Microwatt Soldering Iron (3 nos) Flux Remover (2 nos) general purpose PCBs (minimum 10 nos) Hot air gun (2 nos) Preheat plates (5 nos) SMT/SMD Rework stations (2 nos) Electric screw driver with Torque control (5 nos) Passive and Active Discrete Electronic Components. Resistors, Capacitors and Inductors, Semiconducting Devices: Diodes, Transistors, ICs etc Digital Multimeter (5 nos) Electronics & Electrical Tool Kit (5 nos) DC Regulated Power Supply (0-15V, 10 A) (2 nos) Linear & Digital IC Tester (2 nos) Clamp meter (AC/DC) (2 nos) Bread Board (10 nos) 2 PCs with latest configuration & 4 GB RAM	Consumable & other items as per requirements.
34	Certificate in Robotic Programming and Maintenance	Industrial Robots 1) Fanuc LR mate200iC 2) Fanuc LR mate200iD 3) End effector 4) Relevant components for a specific job. 8 Desktop PC's latest configuration with 4 GB RAM with graphics card, speaker and Mic	Consumable & other items as per requirements
35	ESD –1 Electronics Product Design Support Engineer	2 nos Microcontrollers based development boards-PIC, AVR, MSP, ARM processor boards, Adriuno kits. 2 nos Xilinx, Altera based FPGA Development Boards. 3 nos each - Peripheral and Sensors for Interface: Accelerometer, Gyro sensors, humidity sensors, PIR motion detection module, RFID Module, GPS module, Zigbee, Bluetooth module. Digital Multimeter (5 nos) Electronics & Electrical Tool Kit (5 nos) DC Regulated Power Supply (0-15V, 10 A) (2 nos) Soldering Iron (5 nos) Microwatt Soldering Iron (2 nos) CRO (2 nos) Function Generator (2 nos) Bread Board (10 nos) Passive and Active Discrete Electronic Components: Resistors, Capacitors and Inductors, Semiconducting Devices: Diodes, Transistors, ICs etc 8 Desktop PC's latest configuration with 4 GB RAM	Consumable & other items as per requirements

		with graphics card, speaker and Mic.	
36	Certificate Course on Printed Circuit Board Design ,Analysis and Manufacturing Techniques	8 Desktop PC's latest configuration with 4 GB RAM Photoresist Laminating/Coating Machine U.V. Exposure Machine Developing Machine Etching Machine Roller Tinning machine Drilling Machine Through Hole Plating Machine Mini Hot Air Oven Silkscreen (Screen Printing) Setup Temperature Controlled Soldering/ Desoldering /Repair & Rework Station Surface Mount Technology (SMT) Setup a. Stencil Printer b. Manual Assisted Pick and & Place Machine c. Table top Reflow Oven	Raw Material required for PCB Manufacturing, Assembly and Rework Kits as per requirement.
37	Certificate Course in VLSI Design	2 nos. FPGA Development Kit from Xilinx with complete accessories. 1 nos Logical Analyzer CROs (2 nos) Function Generator (2 nos) 2 sets of Testing Equipment's 8 Desktop PC's latest configuration with 8 GB RAM with graphics card, speaker and Mic 1 High end Server with 16 GB RAM for hosting tool licenses	Consumable & other items as per requirements
38	Certified Cloud Computing and Virtualization Expert	8 PCs with latest configuration & 8 GB RAM & with networking support 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 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	
44	Advanced Diploma in .Net Technology	8 PCs with latest configuration & 4 GB RAM with Internet	

Note: In addition to the given requirement, the following is also required
Power Backup & Internet connectivity with at least 2 Mbps line
Color Printer & Scanner
Multimedia Projector for Teaching

ANNEXURE V
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' Course or a. 3 year Diploma / NIELIT CHM-A Level/ Graduate b. MCSE/CCNA/RHCE/ NIELIT CSSA/ CEH
3	Networking Specialist (NS)	a. BE/B.Tech (Computer Science) / MCA/ B Level b. CCNA v 6.0 (Routing and Switching) or MCSE certified with sound knowledge of Linux	Master Degree in Computer Science with CCNA v 6.0 (Routing and Switching) or MCSE certified with sound knowledge of Linux	Polytechnic Diploma holder with Hardware Networking Diploma and CCNA v 6.0 (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 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)
7	Certified Data Scientist	BE/B.Tech(Computer Science/Electronics) / MCA/ B Level	a. M.Sc(Computer Science) / Masters in Statistics/ B Level 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 b. Knowledge in Hadoop, Hadoop subprojects, R, and Python or PG/Adv Diploma certification in BigData from NIELIT		Graduation/Diploma in computer science with knowledge in Hadoop, Hadoop subprojects, R, and Python or PG/Adv Diploma certificationn in BigData from NIELIT
10	Certificate Course in Cyber Forensic	a. Engineering Graduate(CS/IT) /Science Graduate / MCA/B Level b. CCFP(ISC2) /NIELIT CCFP/EC Council CHFI	a. B.Tech. (Computer/Electronics) /MCA /B Level 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 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 and PHP	a. B.Tech(CS/IT)/MCA/M.Sc.(CS/IT)/NIELIT 'A' Level(IT) b. 6 month experience in Linux, Apache, MySQL and PHP area.		
15	Certified Multimedia Developer	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level/ /MCA/ PGDCA with one year certification in Multimedia or Graduate with NIELIT MAT-O Level		Graduate with MAT-O Level or 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) 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 b. Knowledge in JAVA & JEE	a.BE/BTech/MSc(IT/Computer Science), MCA, NIELIT B Level b. excellent knowledge in JAVA & JEE	a. 3 Year Diploma (IT/Computer Science)/ A Level(IT) with knowledge in JAVA & JEE / or 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 b. knowledge in JAVA & Android programming		a. 3 Year Diploma (IT/Computer Science)/ A Level 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.
21	Certified Course in Web Designing	B.E / B. Tech. in Computer Science / IT OR M.Sc. (Computer Science)/ M.Sc. (IT)/ MCA OR BCA/ B.Sc(IT) or NIELIT A/B Level		

22	Certificate course in Office Automation (CCOA)	B.E / B. Tech. in Computer Science / IT OR M.Sc. (Computer Science)/ M.Sc. (IT)/ MCA OR BCA/ B.Sc(IT) OR NIELIT A/B Level		
23	Certificate Course in PC Assembly & Maintenance	3 yr. Diploma in (Computer , Electronics & ECE) or NIELIT ADHNS		3 year Diploma in CSE/ Electronics/ ECE OR NIELIT certified Certificate Course in PC Assembly & Maintenance
24	Certified Graphic Designer	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level/ /MCA/ PGDCA (b) One year certification in Multimedia or Graduate with NIELIT MAT-O Level		MAT-O Level or 1 year course in Multimedia or Animation
25	Certified Audio Visual Designer	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level/ /MCA/ PGDCA (b)with one year certification in Multimedia or Graduate with NIELIT MAT-O Level		MAT-O Level or 1 year course in Multimedia or Animation
26	Certified 2D Animator	(a) B.Tech.(CSE/IT)/ NIELIT-A/B Level/ /MCA/ PGDCA (b)with one year certification in Multimedia or Graduate with NIELIT MAT-O Level		MAT-O Level or 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 b. 1 years 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 machine)	a. M.Sc.(Electronics)/ 3 year Diploma in Electrical/ Electronics / Instrumentation b. 1 year experience in relevant field		MSc (Electronics) / 3 year Diploma in (Electrical/ Electronics / Instrumentation) with 6 months experience in relevant field.
29	Repair & Maintenance of Dental Equipment	a. M.Sc.(Electronics)/ 3 year Diploma in Electrical/ Electronics / Instrumentation 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 Computers	3 yr. Diploma in (Computer, Electronics & ECE) or NIELIT ADHNS Course		Diploma in CSE , Electronics & ECE, or NIELIT certified Certificate Course in PC Assembly & Maintenance or 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	a. M.Sc.(Electronics)/ 3 year Diploma in Electrical/ Electronics / Instrumentation b. 1 year experience in relevant field		MSc (Electronics) / 3 year Diploma in (Electrical/ Electronics / Instrumentation) with 6 months

	Printers			experience in relevant field.
33	ESM - 1 Electronic Production Technician	B.E. / B.Tech (ECE/EE/EEE) or M.Sc (Electronics)		3 yr Diploma (ECE/ EE/ EEE) or B.Sc (Electronics)
34	Certificate in Robotic Programming and Maintenance	BTech (Mechanical/Electronics) or M.Sc (Electronics) with 1 experience in relevant areas or Certification from NIELIT in the relevant area		3 yr. Diploma (Mechanical/Electronics) or B.Sc (Electronics) or Certification from NIELIT in the relevant area
35	ESD –1 Electronics Product Design Support Engineer	B.E. / B.Tech (ECE/EE/EEE) or M.Sc (Electronics)		3 yr Diploma (ECE/ EE/ EEE) or B.Sc (Electronics)
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 b. 1 year experience in the relevant area		a. 3 yr. Diploma in Electronics or B.Sc. (Electronics) or Post Diploma in EPD of NIELIT b. 6 months experience in the relevant area
37	Certificate Course in VLSI Design	B.E/B. Tech/(ECE/EEE/CSE/AEI/Allied Branches) Plus PG Diploma /Adv. Certification in VLSI /Embedded Systems from NIELIT		
38	Certified Cloud Computing and Virtualization Expert	(a)BE/B. Tech(Computer Science/IT) / MCA/ NIELIT B Level (b) 1 year experience in relevant field		(a) 3 yr. Diploma(Computer Science / IT) / BCA/ NIELIT 'A' Level (b) 6 months experience in relevant field
39	Certificate Course in DSP using MATLAB	BE/B. Tech(Electronics/Electronics & Communication) with 1 year relevant experience.		
40	Certificate Course in 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/B.Tech (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 or NIELIT 'A' Level(IT) with 1 yr relevant experience		
43	Certificate Course in System Administration using Unix	B. Tech(CS/IT)/MCA/M.Sc.(CS/IT)/ NIELIT 'B' Level or NIELIT 'A' Level(IT) with 1 yr relevant experience		
44	Advanced Diploma in .Net Technology	B. Tech(CS/IT)/MCA/M.Sc.(CS/IT) / NIELIT B Level or 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
	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
	Certified Course in Web Designing	Basic Computer Knowledge	3	80 Hrs
	Certificate course in Office Automation(CCOA)	Minimum 10+2 pass	3	80 Hrs
	Advance Diploma in Computer Application Accounting and Publishing	Intermediate with knowledge of Basic computer and Internet Concepts	4	200 Hrs.

	Certified Graphic Designer	12th passed candidates	5	80 Hrs
	Certified Audio Visual Designer	12th passed candidates	5	80 Hrs.
	Certified 2D Animator	12th passed candidates	5	80 Hrs
	Certified Multimedia Developer	12th passed candidates	5	200 Hrs
	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
	Certified Android Apps Developer	Graduate/Undergraduate and knowledge of Java, Internet Concepts and Database	5	100 Hrs
	Certificate Course in System Administration using Linux	B.Sc.(CS)/BCA/PGDCA/Diploma(CS/IT)/NIELIT 'A' Level (s/w)	5	80 Hrs.
	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.
	Certificate Course in Linux, Apache, MySQL and PHP	B.E./B.Tech/NIELIT A Level/BCA or Its equivalent	5	80 Hrs.
	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.
	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.

	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.
	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.
	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	NSQF Level	Duration in Hrs.
	Certificate Course in DSP using MATLAB	Engineering Degree [ECE/EEE/CSE/AEI] (Undergoing also)	7	80 Hrs.
	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.
	Networking Specialist (NS)	Senior Secondary/ Undergraduate/ Graduate possessing basic knowledge of Computers and Internet Concepts	6	780 Hrs.
	Advance Course in Web Application Development using LAMP.	B.E./B.Tech/NIELIT A Level/BCA or Its equivalent	7	240 Hrs.
	Certified Data Scientist	Graduate/Under Graduate and knowledge of any computer language	6	240 Hrs.
	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	NSQF Level	Duration
	Certificate Course in PC Assembly & Maintenance	10th	3	80 Hrs.
	Assembly & Maintenance of Personal Computer	10th/12th/ITI/Polytechnic Diploma /Graduation	3	240 Hrs.
	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
	Advance Diploma in Hardware, Networking & Information Security [ADHNS]	10+2, 10+ITI / Graduate	5	1220 Hrs
	Certificate Course in System Administration using Linux	B.Sc.(CS)/BCA/PGDCA/Diploma(CS/IT)/NIELIT 'A' Level (s/w)	5	80 Hrs.
	Certificate in Robotic Programming and Maintenance	10th/12th pass	4	325 Hrs.

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	NSQF Level	Duration
	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
	Certificate Course in VLSI Design	Engineering Degree [ECE/EEE/CSE/AEI] (Undergoing also)	5	80 Hrs.
	Certificate Course in Embedded System Design using ARM/Cortex Microcontroller	Undergoing B.Tech in Electronics/Electronics & Communication/Electrical	5	80 Hrs.
	Diploma in Installation & Repair of Consumer Electronics Products	ITI or 12th pass	4	350 Hrs.
	Solar Power Installation, Operation	10 +2, Diploma/Any Graduates	4	80 Hrs.

	and Maintenance			
	Repair & Maintenance of Power Supply, Inverter & UPS	10+ / ITI	4	350 Hrs.
	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
	Repair & Maintenance of ECG and ICCU equipments	10th Pass	3	300 Hrs.
	Repair and Maintenance of Imaging Equipment (X-Ray & Ultrasound machine)	10th Pass	3	300 Hrs.
	Repair & Maintenance of Dental Equipment	10th Pass	3	300 Hrs.
	Certificate Course on Printed Circuit Board Design, Analysis and Manufacturing Techniques	Diploma/ B.Sc in Electronics /Telecommunication/ Instrumentation/Electrical	4	250 Hrs.
	Certificate course in Reliability	Pursuing B.Tech	6	240 Hrs.
	Solar-LED Lighting Product (Design and Manufacturing)	10th/ITI/12th	4	350 Hrs.
	ESM - 1 Electronic Production Technician	10th /ITI/ 12th year of Schooling	4	360 Hrs.
	Certificate in Robotic Programming and Maintenance	10th/12th pass	4	325 Hrs.
	Certificate Course in PC Assembly & Maintenance	10th	3	80 Hrs.
	Assembly & Maintenance of Personal Computer	10th/12th/ITI/Polytechnic Diploma /Graduation	3	240 Hrs.
	Installation & Maintenance of Photocopiers and Printers	8th/ITI	2	200 Hrs.
	ESD –1 Electronics Product Design Support Engineer	Diploma in Electronics/ Electrical/Mechanical/BSc. Electronics	5	432 Hrs.

Annexure-VII: REGIONAL COORDINATORS FOR NSQF COURSES

S No.	NIELIT Centre	State(s)/UT(s) cater by NIELIT Centre	Regional Coordinator	Designation	Ph no	Email Id
1	Aizawl	Mizoram	Ms NC Sundari	Sr Tech Officer	9862308488	ncsundari@nielit.gov.in
2	Ajmer	Rajasthan, Gujarat	Sh. D.RamaRao	Scientist/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. Prashant Gupta	Deputy Director (Technical)	8317093872	prashant@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	Guwahati (Main Centre)	Assam	Sh. Nitesh Kumar Singh	Scientist-'B'	8002708700	nitesh.singh@nielit.gov.in
16	Ranchi	Jharkhand	Sh. J K Sah	Principal Technical Officer	7079584338	jksah@nielit.gov.in
17	Ropar	Punjab	Sh. Amit Jain	Joint Director(T)	9417379950	amit.jain@nielit.gov.in
18	Shillong	Meghalaya	Ms. Vidhya Vibha	Scientist-'C'	9089011112	vidhya@nielit.gov.in
19	Shimla	Himachal Pradesh	Sh. Pratiyush Guleria,	Deputy Director		pratiyush@nielit.gov.in
20	Srinagar	Jammu & Kashmir	Sh. V.S.Krishnamurthy	Chief Workshop Supdt.		vskrishnamurthy@nielit.gov.in