EOI No: NIELIT/KOL/2022/ O | Date : 01/09/2022 Last Date : 31/08/2023

Skill Assessment and Certification by NIELIT Kolkata for Students trained by Institutes in West Bengal

Unit I:

Jadavpur University Campus,

Kolkata-700032.

Telephone (EPABX): (033)2414-6054/6081.

Fax:(033)2414-6549

Unit II:

SaltLake Campus, BF-267,

Sector-I, SaltLake,

Kolkata-700064.

Phone: +91(033)-46022246/46020938

In their

Contents ntroduction to NIEUT	2
ntroduction to NIFLIT Kolkata	3
Skill Assessment and Certification according to the skill of the student	4
Responsibilities of Stake Holder-1	
Responsibilities of Stake Holder-2	3
Infrastructure:	6
Faculty Member quality:	6
Quality of faculties would be according to the following	6
Electronics Oriented Courses:	6
Lab Instructor:	6
Table-1 (List of Courses)	7
Advance Diploma in Computer Application (250 hrs)	8
2. Diploma in Computer Application (200 hrs)	9
3. Diploma in Hardware and Networking (120 hrs)	10
4. Certificate Course in Advance JAVA (80 hrs)	10
5. Certificate Course in C Language (80 hrs)	11
6. Certificate Course in C++ (80hrs)	11
7. Certificate Course in Auto-CAD (80 hrs)	12
8. Certificate Course in Desktop Publishing (80 hrs)	12
9. Certificate Course in Financial Accounting & GST using Tally (80 hrs)	12
10. Certificate Course in Oracle DBA (80 hrs)	13
11. Certificate Course in Web Design (80 hrs)	14
12. Certificate course in PHP and MySQL (80 hrs)	14
13. Certificate Course in Data Science using Python (80 Hrs)	15
14. Certificate Course in Office Tools (40 hrs)	16
15. Certificate Course in Soft skill and Communicative English (40 hrs)	16
16. Certificate Course in Laptop, Printer& Desktop Repairing (40 hrs)	17
17. Certificate Course in CAD, Drafting and 3D Modeling (40 Hrs)	18
18. Certificate Course in Cyber Security (40 hrs)	19
Annexure -II	20
APPLICATION FORM:	20
DECLARATION:	21



Introduction to NIELIT

National Institute of Electronics & Information Technology (NIELIT), (erstwhile DOEACC Society), an Autonomous Scientific Society under the administrative control of Ministry of Electronics & Information Technology (MeitY), Government of India, was set up to carry out Human Resource Development and related activities in the area of Information, Electronics & Communications Technology (IECT). NIELIT is engaged both in Formal & Non-Formal Education in the area of IECT besides development of industry oriented quality education and training programmes in the state-of-the-art areas. NIELIT has endeavoured to establish standards to be the country's premier institution for Examination and Certification in the field of IECT. It is also one of the National Examination Body, which accredits institutes/organizations for conducting courses in IT in the non-formal sector.

As on date, NIELIT has forty seven (47) centers located at Agartala, Aizawl, Ajmer, Alawalpur (Saksharta Kendra), Aurangabad, Bhubaneswar, Calicut, Chandigarh, Chennai, Chuchuyimlang, Churachandpur, Daman, Delhi, Dibrugarh, Dimapur, Gangtok, Gorakhpur, Guwahati, Haridwar, Imphal, Itanagar, Jammu, Jorhat, Kargil, Kohima, Kolkata, Kokrajhar, Kurukshetra, Lakhanpur (Saksharta Kendra), Leh, Lucknow, Lunglei, Majuli, Mandi, Pasighat, Patna, Pali, Ranchi, Ropar, Senapati, Shillong, Shimla, Silchar, Srinagar, Tezpur, Tura and Tezu with its Headquarters at New Delhi. It is also well networked throughout India with the presence of about 700 + institutes.

Over the last two decades, NIELIT has acquired very good expertise in IT training, through its wide repertoire of causes, ranging from 'O' Level (Foundation), 'A' Level (Advance Diploma), 'B' Level (MCA equivalent), 'C' Level (M-Tech level), IT literacy courses such as CCC (Course on Computer Concept), BCC (Basic Computer Course) and other such long term and short term course in the non formal sector like courses on Information Security, ITeS-BPO(Customer Care/Banking), Computer Hardware Maintenance (CHM-O/A level), Bio-Informatics(BI-O/A/B level), ESDM etc, besides, high end courses offered by NIELIT Centres at Post-Graduate level (M.Tech) in Electronics Design & Technology, Embedded Systems etc. which are not normally offered by Universities/Institutions in the formal sector, in association with the respective state Universities.

The basket of activities of NIELIT is further augmented by the wide range of projects that it undertakes. NIELIT has demonstrated its capability and capacity to undertake R&D projects, consultancy services, turnkey projects in office automation, software development, website development etc. NIELIT is also the nodal implementing agency on behalf of MeitY for Data

Page 2 of 22

Digitization of the population of 15 assigned States and 2 Union Territories for the creation of National Population Register (NPR) project of Registrar General of India (RGI).

NIELIT is also successfully executing the Agriculture Census and Input Survey project under which tabulation of about 10 crore data records have to be done. NIELIT has planned a roadmap for adopting appropriate pedagogy for metamorphosing NIELIT into an Institute of National Importance.

Introduction to NIELIT Kolkata

NIELIT, Kolkata (formerly DOEACC Society Kolkata Centre since 14.12.2002 and prior to that Regional Computer Centre (RCC), Calcutta) is an Autonomous Scientific Society under the administrative control of Ministry of Electronics & Information Technology (MeitY), Government of India, and one of the oldest IT houses in eastern region imparting IT Education and Training for more than 30 years. The Centre was established in 1976 as a Registered Scientific Society (Autonomous Body) by the Central and West Bengal Governments.

In December 2002, Regional Computer Centre, Calcutta (RCC) was merged with DOEACC Society - An Autonomous Scientific Society of Department of Electronics & Information Technology under Ministry of Communications & Information Technology, Govt. of India.

I'm High

Skill Assessment and Certification according to the skill of the student

Objective: NIELIT Kolkata invites interested institutes to conduct Training in different Skill Development Courses as per information attached herewith. NIELIT Kolkata will maneuver the entire process through registration, evaluation and certification. The details of the roles and responsibilities of the stake holders are as follows:

- Stakeholder1: NIELIT Kolkata
 Roles and responsibility-Registration, Evaluation and Certification
- Stakeholder2: NIELIT Accredited, NIELIT Affiliated, ESDM Training Partner, Webel
 Training Partner, Common Service Centre (CSC), Training Partner of National Skill
 Development Corporation (N.S.D.C), Institutes having prior experience in imparting
 training in Govt. Organizations. Charitable Trusts/Organizations & Others who are
 involved in skill development activities are also eligible to apply.

gen

How

Responsibilities of Stake Holder-1

- Registration: Students will be registered by the institutes with NIELIT Kolkata as per guideline provided by the NIELIT Kolkata from time to time. For registration – appropriate Registration Fees + GST per course will be charged by NIELIT Kolkata.
- Skill assessment process: The Skill will be judged by NIELIT Kolkata through its own
 mechanism. Key skill will be evaluated through practical / viva examination. Practical
 will be a combination of different testing of the knowledge they have acquired while
 undergoing the training program. The assessment will also reflect the market demand
 so that a demand versus availability may be mapped. For Examination and
 Certification appropriate Examination fees + GST per paper will be charged by
 NIELIT Kolkata.
- Certification: Certificates will be issued by NIELIT Kolkata to successful (passed)
 candidates only. In case if a candidate fails to clear the examination he can reappear
 by making the payment for each appearance.

Responsibilities of Stake Holder-2

- Mobilization, Registration and Admission of the students: Concerned Institute/individual will mobilize and register students with NIELIT Kolkata as per guideline provided by the NIELIT Kolkata from time to time. Suitable training fees to be collected by the institutes from the candidates. For eligibility of the candidates and course fees in different courses refer Table 1.
- Training Conduction: The training will be provided by the identified/selected institutes for the courses specified by NIELIT Kolkata. Minimum no of candidates required for conducting examination is minimum 40 or as decided by NIELIT Kolkata from case to case basis for institutes located within 200 km and min 80 for institutes located above 200 km
- Faculty Development program: NIELIT Kolkata will assess the qualities of the faculties
 deployed or to be deployed with respect to the courses to be implemented. In case
 the faculties are not up to the required standards but can be groomed than they will
 be trained by NIELIT Kolkata as per convenience of both the stakeholders on
 chargeable basis.





Infrastructure:

Hardware:

- a) Minimum 10 number of Computer Systems (for a batch size of minimum 20 and will increase proportionately) having latest configurations (Dual Core and above, Minimum of 1 GB RAM, 20 GBfree Hard Disk space) or appropriate infrastructure as per the course being offered.
- b) Internet Connectivity: 1Mbps line / Broadband
- c) Projector: Minimum 1
- d) Printer: Minimum 1 Printer
- e) Scanner: At least 1
- f) UPS Power supply- adequate as per system requirement
- g) Webcam, Speaker

Software:

- a) Windows 7 or Above
- b) Antivirus
- c) Tally Package
- d) AutoCAD Package
- e) Multimedia Course related Software
- f) Any other software related to the course

Faculty Member quality:

Quality of faculties would be according to the following

Computer Oriented Courses:

- a) Faculty Science Graduate with A Level cleared / B Level / MCA /B.E/ B.Tech / M.Sc in Computer Science / M.Sc with Diploma on Computer Courses or higher,
- b) B.Com/M.Com candidates with experience in teaching Financial Accounting related Subject.
- c) Relevant Experience/specialization in respective subject is required.

Electronics Oriented Courses:

- a) Faculty B.E / B.Tech / Diploma / ITI in Computer Science, Electrical or Electronics & communication, Instrumentation for Hardware Course.
- b) Relevant Experience/specialization in respective subject is required.

Lab Instructor:

 a) Graduation/Diploma in Computer Science, Electrical or Electronics & communication, Instrumentation or higher with relevant experience.

for their

Page 6 of 22

Table-1 (List of Courses)

SI	Course Name	Course duration in hrs	Month wise duration*	Min Eligibility (appearing / appeared)	Registration Fees without GST	GST
1	Advance Diploma in Computer Applications	250	6-10	Graduation	1000	1000
2	Diploma in Computer Application	200	4-6	XII	600	600
3	Diploma Hardware and Networking.	120	3-4	XII/10 +ITI	600	600
4	Certificate Course in Advance JAVA	80	2-3	XII	600	600
5	Certificate Course in "C" Language	80	2-3	XII	600	600
6	Certificate Course in C++	80	2-3	XII	600	600
7	Certificate Course in Auto-CAD	80	2-3	ITI/ Polytechnic/HS/ BE/ B.Tech	600	600
8	Certificate Course in Desktop Publishing	80	2-3	XII	600	600
9	Certificate Course in Financial Accounting and GST using Tally	80	2-3	XII (preferably Commerce)	600	600
10	Certificate Course in OracleDBA	80	2-3	XII	600	600
11	Certificate Course in Website Designing	80	2-3	XII	600	600
12	Certificate course in PHP and MySQL	80	2-3	XII	600	600
13	Basic Data Science using Python	80	2-3	XII	600	600
14	Certificate Course in Office Tools	40	1-2	VIII	375	375
15	Certificate Course in Soft Skill and Communicative English	40	1-2	X	375	375
16	Certificate Course in Laptop, Printer& Desktop Repairing	40	1-2	Х	375	375
17	Certificate Course in CAD, Drafting and 3D Modeling	40	1-2	ITI/ Polytechnic /BE/B. Tech	375	375
18	Information Security and Tools	40	1-2	XII	375	375

*Month wise duration Table

Wildlitt Wise datation rabie		
SI No	Hours	Proposed Duration in Months
01	<=40 HRS	1-2
02	>40 and <=80	2-4
03	>80 and <=200	4-6
04	>200 and <=300	6-8

Gradation Table

Gradation rable		IOII Table
SI No	Marks	Grade
01	100% to 90%	A+
02	89% to 80%	Α
03	79% to 70%	B+
04	69% to 60%	В



05	59% to 50%	C+
06	49% to 40%	C
07	Below 40%	Fail

1. Advance Diploma in Computer Application (250 hrs)

S. No	Topic	Minimum No. of Hours
1	Introduction to Computer Computer and Latest IT gadgets, Evolution of Computers & its applications, IT gadgets and their applications, Basics of Hardware and Software, Central Processing Unit, Input devices, Output devices, Computer Memory & storage, Application Software, Systems Software, Utility Software, Open source and Proprietary Software	4
2	Introduction to Operating System Operating System, Basics of Operating System, Operating Systems for Desktop and Laptop, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, running an application, Operating System simple setting, using mouse and changing its properties, changing system date and time, changing display properties, to add or remove Program and its features, adding, removing &sharing Printers, File and Folder management, types of file	6
3	Information Technology and Office Tools- Introduction to Computer; Introduction to Operating System; Word Processing; Spreadsheet; Presentation; Introduction to Network, Internet and WWW; E-mail, Social Networking and e-Governance Services; Digital Financial Tools and Applications.	50
4	An Overview of the Database Management System: What is database?, Why database?, database system, database management system (DBMS), advantages of DBMS. An Architecture of the Database system: Three levels of architecture, mappings, role of Database Administrator (DBA), E-R model, three approaches of DBMS- relational, hierarchical and network. Relational Database Management System (RDBMS): Introduction, RDBMS terminology, relational model, base tables, keys. Normalization: Normal forms, Boyce-Codd Normal form, higher normal forms. The SQL Language: Introduction, Characteristics of SQL, data definition, data manipulation, SQL commands, SQL operators, Queries, aggregate functions. Backup and Recovery: Transaction recovery, system recovery, SQL	40
5	HTML Programming Basics: Introduction, Basic Structure of HTML, Head Section, Formatting Tags: Bold, Italic, Underline, Strikethrough, Anchor links and Named Anchors Image Tag, Paragraphs, Tables: Attributes –(Border, Cellpadding, Cellspacing, height, width), TR, TH, TD, Rowspan, Colspan Lists: Ordered List, Unordered List, Forms, Form Elements, Input types, Input Attributes, Text Input Text Area, Dropdown, Radio buttons, Check boxes, Submit and Reset Buttons Frames: Frameset, nested Frames. CSS: Introduction to CSS, Types of CSS, CSS Properties: Back Ground properties, Block Properties, Box properties, List properties, Border Properties, Positioning Properties, CSS Lists CSS Tables, CSS Menu Design CSS Image Gallery.	50

for thing

	Hours:	250
Practic	cal/Tutorial/Lecture Hours:	150
Theor	y / Lecture Hours:	100
8	Project	20
7	Internet of Things and its Applications (IOT) Introduction to Internet of Things – Applications/Devices, Protocols and Communication Model, Sensors, Actuators and Microcontrollers	40
6	Problem solving and programming on Python – Introduction to Python, Operators, Expressions and Python Statements, Sequence Data Types, Functions, File Processing, Scope and Modules, NumPy Basics.	40
	JavaScript: Introduction to Scripting Language, Variables in Java Script, Operators in JS, Conditions Statements, JS Popup Boxes, JS Events, Basic Form Validations in JavaScript. Photo Editor: Basic photo editing using Photo editor software.	- 10

2. Diploma in Computer Application (200 hrs)

S. No	Topic	Minimum No. of Hours
1	Information Technology and Office Tools- Introduction to Computer; Introduction to Operating System; Word Processing; Spreadsheet; Presentation; Introduction to Network, Internet and WWW; E-mail, Social Networking and e-Governance Services; Digital Financial Tools and Applications.	50
2	Problem solving and programming on Python – Introduction to Python, Operators, Expressions and Python Statements, Sequence Data Types, Functions, File Processing, Scope and Modules, NumPy Basics.	40
3	An Overview of the Database Management System: What is database?, Why database?, database system, database management system (DBMS), advantages of DBMS. An Architecture of the Database system: Three levels of architecture, mappings, role of Database Administrator (DBA), E-R model, three approaches of DBMS- relational, hierarchical and network. Relational Database Management System (RDBMS): Introduction, RDBMS terminology, relational model, base tables, keys. Normalization: Normal forms, Boyce-Codd Normal form, higher normal forms. The SQL Language: Introduction, Characteristics of SQL, data definition, data manipulation, SQL commands, SQL operators, Queries, aggregate functions. Backup and Recovery: Transaction recovery, system recovery, SQL support.	40
4	HTML Programming Basics: Introduction, Basic Structure of HTML, Head Section, Formatting Tags: Bold, Italic, Underline, Strikethrough, Anchor links and Named Anchors Image Tag, Paragraphs, Tables: Attributes –(Border, Cellpadding, Cellspacing, height, width), TR, TH, TD, Rowspan, Colspan Lists: Ordered List, Unordered List, Forms, Form Elements, Input types, Input Attributes, Text Input Text Area, Dropdown, Radio buttons, Check boxes, Submit and Reset Buttons	50

Practical/Tutorial/Lecture Hours: Total Hours:	
Theory / Lecture Hours:	
5 Project	
Dropdown, Radio buttons, Check boxes, Submit and Reset Buttons Frames: Frameset, nested Frames. CSS: Introduction to CSS, Types of CSS, CSS Properties: Back Ground properties, Block Properties, Box properties, List properties, Border Properties, Positioning Properties, CSS Lists CSS Tables, CSS Menu Design CSS Image Gallery. JavaScript: Introduction to Scripting Language, Variables in Java Script, Operators in JS, Conditions Statements, JS Popup Boxes, JS Events, Basic Form Validations in JavaScript. Photo Editor: Basic photo editing using Photo editor software.	

3. Diploma in Hardware and Networking (120 hrs)

S. No	Topic	Minimum No. of Hours
1	Power Supply	6
2	Motherboards	10
3	Primary & Secondary Memories	10
4	Buses and IO Ports	10
5	Computer Peripherals	10
6	Display units	6
7	Establishing LAN Connection	20
8	Bluetooth and Wireless Networking	6
9	Booting and POST test	6
10	Virus removal and protection	6
	Lecture Hours:	20
100000000000000000000000000000000000000		70
Practica Total H	VTutorial/Lecture Hours:	90

4. Certificate Course in Advance JAVA (80 hrs)

Topic	Minimum No of Hours
Introduction to Core Java	10
	06
	20
	14
35-35-46-36-36-36-36-36-36-36-36-36-36-36-36-36	10
DW98-70347	10
	Introduction to Core Java Introduction to J2EE SQL & JDBC Beans in Servlets Introduction to struts framework JSP

7	Hibernation	10
Theor	y/ Lecture Hours:	30
Practical/Tutorial/Lecture Hours:		50
	Hours:	80

5. Certificate Course in C Language (80 hrs)

S.No	Topic	Minimum No. of Hours
1	Introduction to C	02
2	Data types & operator	06
3	Logical & looping constructs	15
4	Functions	06
5	Arrays & Pointers	25
6	Structures & union	10
7	Standard library & header files	06
8	File Handling Operations	10
Theory/ Lecture Hours:		30
Practical/Tutorial/Lecture Hours:		50
Total Hours:		80

6. Certificate Course in C++ (80 hrs)

Topic	Minimum No. of Hours
Introduction to OOP's concept	02
TARGET TO THE PARTY OF THE PART	05
	15
	10
	10
	10
	05
	05
4109 630194384.4.4.60019419	05
	08
	05
	30
110	50
	80
	Introduction to OOP's concept Data types. Operator &Logical/looping Functions and arrays Classes & objects Inheritance Polymorphism Operator overloading Function overloading Exception handling File Handling Operations Introduction to Template / Lecture Hours: Introduction:

for thing

7. Certificate Course in Auto-CAD (80 hrs)

S.No	Topic Topic	Minimum No. of Hours
1	Introduction, GUI, Coordinate, Limit, Grip, Grid, Snap	10
2	Drawing, Viewing, modify, editing commands	20
3	Plot, Linetype, Model Space Paper Space, 2D Isomatric	10
4	3D drawing, Modeling	40
heory/ Lecture Hours:		20
Practical/Tutorial/Lecture Hours:		60
Total H		80

8. Certificate Course in Desktop Publishing (80 hrs)

S. No	Topic	Minimum No of Hours
1.	MS paint	10
2.	Photoshop	24
3.	Page maker	12
	Coral draw	24
4. 5.	Project work	10
		20
Theory/Lecture Hours: Practical/Tutorial/Lecture Hours:		60
Total Hours:		80

9. Certificate Course in Financial Accounting & GST using Tally (80 hrs)

S. No	Topic Topic	Minimum No. of Hours
1	Advance Financial Accounting:- Financial Accounting (Definition, Concept, Process Voucher, Journal & Ledger, Double Entry System). Classification of A/Cs (Personal, Real & Nominal) and Golden Rules of Accounting. Capital & Revenue Expenditure, Depreciation. Reports (Trial Balance, Statement of Profit & Loss/ Receipts &Payments and Balance Sheet. Day Books (Purchase & Sale), Cash/ Bank Book, A/Cs Receivable &Payable, Debit Note, Credit Note, Bank Reconciliation.	04
2	Tally ERP 9:- Accounting Software (ERP/SAP, Self developed software used by organizations, Tally ERP9, etc.). Tally – Introduction, System Requirement, Main Features, Company Creation, Group Creation, Ledger Creation, Voucher entry, View Reports—Theory & Practical. Receipts & Payments Voucher, Purchase(in ward supply) Voucher/Register & Sales (outward supply) Voucher/ Register, Journal Voucher/ Register, Bill adjustment method & Outstanding statement, Credit period—Theory & Practical.	16

for third

	Opening Balance & Opening Balance Sheet, Creation of Admin and Non- admin users, Password Policy – Theory & Practical.	02
3	Concept of Financial & Assessment year, IT Act & Rules. TDS/ TCS under Income Tax Act & GST (Concept, Payments, Returns/ e-filing (Theory & Practical using Tally ERP 9)	04
4	GST (Concept, Act/ Rules, over view) CGST, SGST, IGST, UTGST, Composition Tax, Reverse Charge Mechanism ITC, Registration, Tax Payments, Returns, Hands-on Training.	
5	Costing using Tally(Theory & Practical):- Concept of Cost Centre, Cost Unit & Cost Category Budget & Budgetary Control, Standard Costing & Variance Analysis, Job & Contract Costing Data Import & Export, Change Company, Backup, Restore, Yearending etc.	06
6	Sales Invoice & Inventory using Tally:- Sales Invoice with singly/ multiple items, POS Billing, Stock Summary, Stock Category creation and Stock Transfer, Godown Creation, ABC analysis, Stock Journal, Physical Verification of Stock, Manufacturing Inventory.	
7	Payroll (PF, ESI, P.Tax, Income Tax, Bonus, Gratuity, Leave Encashment and Components of salary & allowances).	04
8	Ratio Analysis(Theory &Practical)	02
9	Revision of Tally Package	08
10	Revision of GST	04
11	How to appear interview in different organization as Accounts Professional	02
12	Interactive Session & Certification distribution	02
	y/ Lecture Hours:	50
	cal/Tutorial/Lecture Hours:	30
07.0461.951.0518	Hours:	80

10. Certificate Course in Oracle DBA (80 hrs)

S. No	Topic	Minimum No. of Hours
1.	Oracle architecture	02
2.	Database administration tools	03
3.	Oracle instance	03
4.	Creating a database	02
5.	Data dictionary &views	02
6.	Control files	02
7.	Log files	02
8.	Table space	03
9.	Storage, structure & relationship	04
10.	Managing undo data	04
11.	Managing tables &index	02
• • •	Manager 6	.

for offind

12.	Maintaining data integrity	02
13.	Managing password security &resources	03
14.	Users &privileges	03
15.	Managing rules	02
16.	Auditing &loading data	. 01
Theory/ Lecture Hours:		30
Practical/Tutorial/Lecture Hours:		60
Total Hours:		80

11. Certificate Course in Web Design (80 hrs)

S. No	Topic	Minimum No. of Hours
1.	Introduction to Internet &Web	4
2.	HTML	20
3.	JavaScript	20
4.	CSS	20
5.	jQuery	10
6.	BootStrap	10
Theory / Lecture Hours:		20
Practical / Tutorial / Lecture Hours:		60
Total Hours:		80

12. Certificate course in PHP and MySQL (80 hrs)

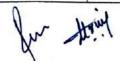
SI No	Topics	Minimum No. of Hour
1	What is a Scripting Language? Programming Language Vs Scripting Language, What does PHP stand for? Why use PHP? PHP File Extensions.	2
2	How to Download & Install XAMPP & Net Beans: PHP Tutorial What is XAMPP? Why use XAMPP? How to Download and Install XAMPP Basic Web server configuration XAMPP Control Panel Configure XAMPP What is the PHPIDE? Introduction to Netbeans IDE	4
3	Introduction to PHP: Evaluation of PhpBasic Syntax Defining variable and constant Php Data type Operator and Expression	6
4	Handling Html Form With Php Capturing Form Data Dealing with Multi-value filed Generating File uploaded form Redirecting a form after submission	6

In their

5	DECISIONS AND LOOP Making Decisions Doing Repetitive task with looping Mixing	6
	Decisions and loopingwith Html PHP IfElseElseif	
	PHP Switch	
	PHP While Loops PHP For Loops	
6	FUNCTION What is a function Define a function Call by value and Call by reference Recursive	8
	function	
7	STRING Creating and accessing String Searching & Replacing String Formatting String String Related Library function	4
8	ARRAY Anatomy of an Array	6
	Creating index based and Associative array Accessing array Element Looping with Index base darray	
	Looping with associative array using each() and foreach()Some useful Library function	
9	Working with File and Directories: Understanding File & directory	10
	Opening and closing a file Coping, renaming and deleting a file Working with directories File Uploading & Downloading	
10	STATE MANAGEMENT Using query string(URL rewriting) Using Hidden field Using cookies Using session	6
11	String matching with regular expression :What is regular expression Pattern matching in Php Replacing text Splitting a string with a Regular Expression	6
12	Database Connectivity with MySql: Introduction to RDBMS Connection with MySql Database Performing basic database operation(DML) (Insert, Delete, Update, Select) Setting query parameter Executing query	16
heor	y / Lecture Hours:	20
ractio	cal / Tutorial / Lecture Hours:	60
	Hours:	80

13. Certificate Course in Data Science using Python (80 Hrs)

S.	Topic	Minimum
No		No. of Hours



1	Introduction to Data Science: Introduction, Types of Data, Data collection and pre-processing methods	10
2	Basics of Python/R, Data visualization: Introduction to Python, Data Structures in Python, Control Structures and functions, Classes and Objects, Introduction to NumPy, NumPy Arrays, Introduction to Panda, MatplotLib, Data visualisation using Panda, Matplotlib.	20
3	Statistics Fundamental: Descriptive & Inferential Statistics, Probability Concept: Marginal, Joint & Conditional Probability, Bayes Theorem, Probability Distributions, Entropy &Information Gain, Regression & Correlation, Confusion Matrix, Bias & Variance, Covariance and correlation	10
4	Machine learning using Python: Applications of Machine Learning, Supervised and Unsupervised Learning, Regression and Classification, Introduction to Clustering, Python Libraries used for Machine Learning, Intuition using Python	20
5	Case study using Machine learning concepts: Pre-processing, data analysis and modelling, model evaluation and deployment of model.	20
Pract	ical/Tutorial/Lecture Hours:	30
Total Hours:		50

14. Certificate Course in Office Tools (40 hrs)

S. No	Topic	Minimum No. of Hours
1	Knowing Computer	02
2	Operating Computer using GUI based OS	04
3	Word Processing	12
4	Spread Sheet	12
5	Communicating using the Internet	02
	WAXAW & Web Browsers	02
6	Communication& Collaboration	04
7	Making Small Presentation	02
8		20
Theory/ Lecture Hours:		20
Practical/Tutorial/Lecture Hours: Total Hours:		40

15. Certificate Course in Soft skill and Communicative English (40 hrs)

S.No	Topic Topic	Minimum No. of Hours
1	Brief introduction to: Spoken variety of English, the two chief spoken varieties-British and American; Indian English and idea of a neutralaccent.	03
2	Consonant sounds, Vowel sounds in English: Pure vowels (Long vowels and short vowels) Phonetic Symbols,	03
3	Refresher classes on English Grammar and Vocabulary	03
4	Connected Speech: Word stress and sentence stress	04

for train

5	Reading from texts, computer aided teaching and learning exercises	02
6	Entry behavior evaluation, Introductory Module on Personality Development	03
7	Presentation and speech giving techniques	01
8	Module on Office Etiquette	01
9	Module on Customer Care	02
10	Telephone handling Techniques	02
11	Module on Active Listening	01
12	Module on Product features and benefits	01
13	Module on call structure	01
14	Module on objection handling and questioning Techniques	01
15	Power point Presentation	01
16	Module on Telemarketing and Prospecting	01
17	Module on Complain handling and handling of difficult people	01
18	Group Discussion	01
19	Lesson on 'How to Face Interview', Body Language,	04
20	Debating Competition	01
21	Conduction of role-plays	01
22	Conducting Mock interviews	01
23	Interactive sessions	01
5755	Hours:	40

16. Certificate Course in Laptop, Printer& Desktop Repairing (40 hrs)

S. No	Topic	Minimum No. of Hours
1	Introduction and Assembling of Desktop Computer	6
	Introduction to Operating System , Window XP, 7, 8, 10 Installation & UBUNTU Installation	7
3	Application Software & Driver installation	3
	Identification of different Parts & Basic repairing and troubleshooting of Laptop	10
5	Toner refilling, Installation, Repair & Basic Troubleshooting of Printer	10
6	CCTV Installation	4
otal F	lours:	40

for High

17. Certificate Course in CAD, Drafting and 3D Modeling (40 Hrs)

S. No	Topic	Minimum No. of Hours
1	Limits, units, Line, O-snap, Polygon, Arc, Circle, Elipse, Rectangle, Array, Move, Copy.	02 hrs
2	Rotate, Offset, Revision cloud, Trim, Stretch, Break, Joint, Selection Method	02 hrs
3	Mirror , Solid , Scale , Extend , Explode , Fillet , Chamfer , Donut , Layer , Match Properties , Text , Multi Text .	02 hrs
4	Block , Insert , Dynamic Block , W Block , Attribute , External Reference , Hatch , Gradient .	02 hrs
5	Table , Align , Boundary , Divide , Measure , Point , Region , Polyline .	02 hrs
6	Layout Management, Plotting, Dimension, Properties, Match Properties, Edit, Edit with grips.	02 hrs
7	Polyline, Lengthen, spline	02 hrs
8	Project of a 2D Drawing	02 hrs
9	Draft setting, Isolate, Different shape in Isometric	02 hrs
10	Project drawing of anisometric model.	02 hrs
11	3D Box, cylinder, Cone, Pyramid, Torus, Extrude, UCS setting, Region, Subtract	02 hrs
12	Loft, loft reference to guide curve, Sweep, Revolve, Union, Intersect, Polysulfide.	02 hrs
13	Planar, surface, Press/ Pull, Slice, Thicken, Smooth object, Extract Face, Imprint.	02 hrs
14	Extrude face, Taper face, Move Face, Copy Face, Color Face, Shell.	02 hrs
15	Helix, Align, Array, Marrow, Fillet, Chamfer, Move Gizmo.	02 hrs
16	Mesh revolves, Mesh edge, Surface, Ruled surface, Tabulate Surface.	02 hrs
17	Convert to solid or surface, material input, Render, Sky off-on, Walk Through.	02 hrs
18	Project	02 hrs
19	Project	02 hrs
20	Project	02 hrs
	Theory / Lecture Hours:	10
	Practical / Tutorial / Lecture Hours:	30
	Total Hours:	40 hrs

for Hain

18. Certificate Course in Cyber Security (40 hrs)

S. No	Topic	Minimum No of Hours
1	Network basics, IPV4, Class, Classless, CIDR, IPV6, Basics of routing and switching, NAT	6
2	Basic Linux Commands	2
3	Need of Cyber security, Ethical Hacking, Scope of Ethical Hacking, Types of Hackers, Phases of Ethical Hacking	4
4	Cryptography(Symmetric, Asymmetric), PKI with PGP	4
5	Security Attacks and counter measures: information Gathering, sniffing, scanning	6
6	ARP Cache Poisoning and MITM Attack, Brute Force attack, IP spoofing & MAC spoofing, DOS attack	6
7	Metasploit Framework Exploit MS17-010 Vulnerability Reverse TCP Connection Reverse connection in different network using port forwarding Software-based vulnerabilities (Badblue/iceblaster)	6
8	Steganography, Web security vulnerability	2
9	Cyber law And forensic: Digital Forensic	
otal	Hours:	40

from Think

Annexure -II

APPLICATION FORM

1	Training Center name	
2	Training Center Location	District: City/Village: Address: Contact Person Mobile No:
3	Full details of Centre In Charge a) Name b) Centre Address	
	c) Telephone No. d) Mobile No. e) E-Mail: f) Fax No. g) NIELIT Accreditation No: /ESDM TP ID:	
	/NIELIT Facilitation No: /WIL Registration No: /CSC Number:	
4	Complete Address of the Centre with brief description of location	
5	Experience in conducting NIELIT Courses (Mention the Course names etc.)	
6	List of course to be applied for	Attach separate sheet for multiple courses
7	Hardware Availability	Attach details
8	Software Availability	Attach details
9	Faculty Profile	Attach details
10	Experience in Education & Training activities	Attach details

Page 20 of 22

In third

DECLARATION:

i. I,	Son	/ daught	ter /
wife6 of have i	read and	understoo	d the
GUIDELINES / INSTRUCTIONS FOR CONDUCTIN	NG THE	COURSE	and
agree to abide by the same.			

ii. I certify that I am the competent authority, by virtue of the administrative and financial powers vested in me by to furnish the above information and to undertake the above stated commitment on behalf of the organization referred to in col.1 above.

iii. I am aware that in case any information given by me is found false or misleading my organization would be debarred from the conduction of the course besides being subjected to any other action that may be deemed fit by NIELIT, Kolkata.

iv. The details furnished with regard to faculty and infrastructure is correct to the best of my knowledge and belief and we will ensure availability of these facilities on a continued basis till we continue to offer candidates the courses applied for.

v. I agree to abide by the decisions of the NIELIT, Kolkata or its designated agencies in respect of my application for permission to offer candidates for the courses.

vi. I agree to all terms & conditions mentioned in the EOI Ref no:

Signature of the Witness:

Name:

Designation:

Date:

Address:

Seal of the organization

Signature of the Authorized Signatory:

Name:

Designation:

Date:

Address:

Seal of the organization

for their