

नेशनल इस्टेब्लिशमेंट ऑफ इलेक्ट्रॉनिक्स एंड इन्फॉर्मेशन टेक्नोलॉजी, चेन्नई

National Institute of Electronics and Information Technology, Chennai

Autonomous Scientific Society of Ministry of Electronics & Information Technology (MeitY), Govt. of India

ISTE Complex, 25, Gandhi Mandapam Road, Chennai - 600025

Course Prospectus

“Full Stack Development Associate” (NSQF - Level 4)

Mode: ONLINE (Blended)



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Course Prospectus

Name of the Group: ISM

Course Name: “Full Stack Development Associate”

Course Code: IS131

NSQF LEVEL: 4

Duration: 390 Hours, Approx. 3 Months

Last Date of Registration: 15-09-2026

Display of Provisional Selection List: 21-09-2026

Payment of first instalment fee: 21-09-2026 to 23-09-2026

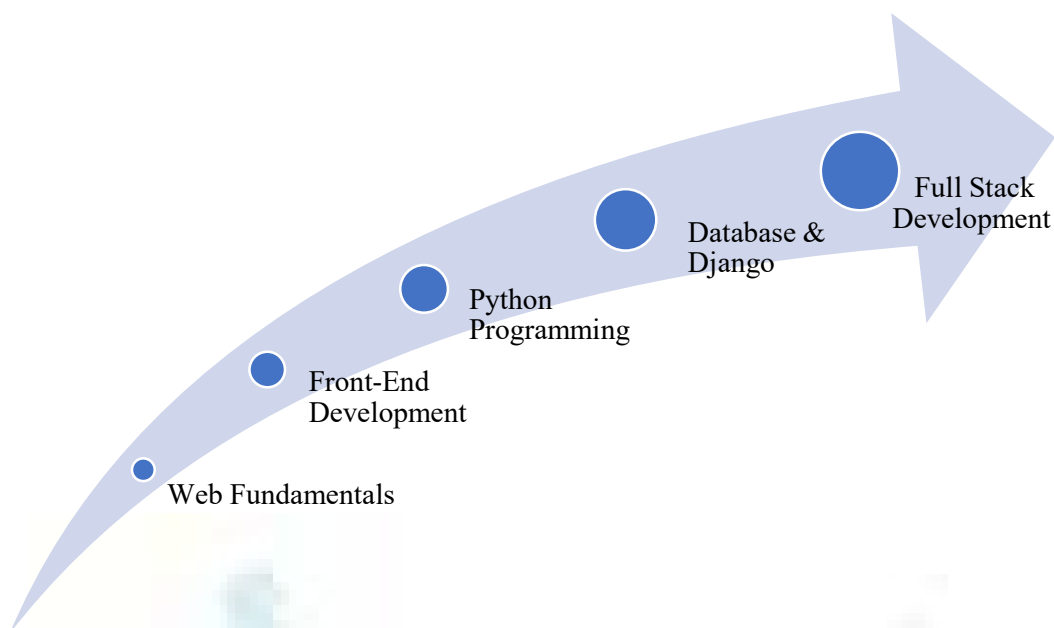
Course Start Date: 24-09-2026

Preamble:

The continuous growth of web technologies and digital applications has transformed how organizations design, develop, and deliver web-based services. With increasing dependence on dynamic and data-driven web applications, there is a growing need for skilled professionals who can develop and maintain complete web solutions. The Full Stack Development Associate plays a critical role in designing responsive front-end interfaces, implementing backend applications, managing databases, and integrating different components of modern web applications. The Full Stack Development Associate combines technical knowledge and practical development skills to build functional, secure, responsive, and maintainable web applications that meet real-world requirements.

Objective of the Course:

The Course is 390 Hrs. program aimed at molding candidates into Skilled Full Stack Developers with knowledge of front-end and backend web development, database connectivity, and dynamic web application development using HTML, CSS, JavaScript, Bootstrap, Python, MySQL/SQLite, and Django to design, develop, and maintain web applications in today’s digital environment.



Outcome of the Course:

This skill-oriented course provides candidates with the knowledge and practical skills required to design and develop responsive web applications, implement front-end and backend functionalities, perform database connectivity and management, and develop dynamic web applications using Python and Django. It equips candidates with the skills required to build, test, secure, and maintain complete web applications.

Course Structure

This course contains total six modules. After completing the first five modules, the students have to do a 30 Hours project using any of the topics studied to earn the Certification.

Sl. No.	Module Name	Duration (in weeks)
1	Design and Development of Front-End Application	1 Weeks
2	HTML and Web Page Development	1 Weeks
3	CSS, Bootstrap and Responsive Web Design	1 Weeks
4	JavaScript and Front-End Programming	1 Weeks
5	Backend Python Programming	1 Week
6	Python Object-Oriented Programming	1 Week
7	Database Connectivity with MySQL/SQLite	1 Week
8	Dynamic Web Application Development using Django	1 Week
9	Django ORM, Authentication, Security and Version Control	1 Week
10	Employability Skills and OJT/Project	1 Week
Total Duration		10 Weeks

Course Fees

Registration Fee- Rs.1000/-

Course fee is Rs. 22,000/- {Can be paid as a Single installment of Rs.22,000 (Including Registration fee or in two installments as given below)}

Registration Fee	Rs. 1000/-	Nil/-	
Installment No	General Candidates (Course Fee.)	SC-ST Candidates (Course Fee.)	Last Date
1	10,500.00	Nil/-	23-09-2026
2	10,500.00	Nil/-	26-10-2026
Total	22,000.00	Nil/-	

Registration Fee – Refund Policy

(Non-Refundable if candidate is selected for admission but did not join and if a candidate has applied but not eligible.)

However, the above registration fee shall be refunded on few special cases as given below

- ✓ Candidates are eligible but not selected for admission.
- ✓ Course postponed and new date is not convenient for the student.
- ✓ Course cancelled.

Eligibility

S. No.	Academic/Skill Qualification (with Specialization – if applicable)	Required Experience (with Specialization – if applicable)
1	12th or equivalent	No Experience required
2	10th	3-year experience in IT or allied sector
3	Previous relevant Qualification of NSQF Level 3.5	1.5-year relevant experience

How to Apply

Candidates can apply online in our website <https://nva.nielit.gov.in> Payment towards non-refundable registration fee can be paid through any of the following modes:

- ✓ Online transaction: Account No: 31185720641 Branch: Kottur (Chennai), IFS Code: SBIN0001669.

Note: *The Institute will not be responsible for any mistakes done by either the bank concerned or by the depositor while remitting the amount into our account*

Last date of Registration: 15th September 2026

Registration Procedure

All interested candidates are required to fill the Registration form online with registration fee before 15th September 2026 with all the necessary information.

Selection Criteria of candidates

The selection to the course shall be based on the following criteria:

Selection of candidates will be based on their marks in the qualifying examination subject to eligibility.

- ✓ The first list of Provisionally Selected Candidates will be published on NIELIT Chennai website (www.nielit.gov.in/chennai) on 21-09-2026 by 5:00 PM. In case of vacancy, an additional selection list will be prepared, and the selection will be intimated by email only.
- ✓ Provisionally selected candidate has to upload their document on registration portal for online verification.
 - Original copies of Proof of Age, Qualifying Document (Consolidated Mark sheet or Course Completion Certificate), 10th and 08th mark sheets.
 - Self-attested copy of community certificate.
 - One passport size photograph.
 - AADHAR Identity proof.
- ✓ After document verification selected candidates have to pay first instalment of Rs. 10,500/- (for General/OBC/EWS) on or before 23-09-2026 by payment mode mentioned above. Selected candidates are requested to upload the proof of remittance of fee on registration portal and also send the proof of remittance of fee as email to trng.chennai@nielit.gov.in.

Admission

All provisionally selected candidates whose documents are verified and paid the fees (full or first instalment) and verified by accounts section of NIELIT Chennai will get a welcome message in his login id provided during registration. The credential and url for online portal will be shared through WhatsApp or email.

Discontinuing the course

- No fees under any circumstances, shall be refunded in the event of a student who have completed the process of admission or discontinuing the course in between. No certificate shall be issued for the classes attended.
- If candidates are not uploading consecutive 3 assignments within assigned time, then their candidature will be cancelled without any notice and all fees paid will be forfeited.
- If candidates are not appearing for any internal examinations/practical their candidature will be cancelled without any notice and all fees paid will be forfeited.

Course Timings: This program is practical-oriented; hence, there will be more lab sessions than theory classes. The classes and lab sessions will be conducted online through a cloud-based platform from 9:30 AM to 5:30 PM, Monday to Friday.

Address:

National of Electronics and Information Technology
ISTE Complex, No. 25, Gandhi Mandapam Road, Chennai – 600025
E-mail: trng.chennai@nielit.gov.in/Phone: 044-24421445
Contact Person: Mr.Balakumar V, Mobile: . 7598730125

Course enquiries

Students can enquire about the various courses either on telephone or by personal contact between 9.15 A.M. to 5.15 P.M. (Lunch time 1.00 pm to 1.30 pm) Monday to Friday.

Placement: Placement assistance is provided to students who qualify our courses.

Students who have completed the course successfully and qualified, Placement guidance and career counselling will be given to crack their interviews.

Important Dates

- **Last Date of Registration: 15-09-2026**
- **Display of Provisional Selection List: 21-09-2026**
- **Payment of first instalment fee: 21-09-2026 to 23-09-2026**
- **Course Start Date: 24-09-2026**
- **Payment of second instalment fee: within 26-10-2026**

Examination & Certification

- ✓ Certification Body: Examination Section, NIELIT HQ
- ✓ Certificates will be issued after successful completion of all the modules including project. For getting Certified Full Stack Development Engineer certificate a candidate has to pass each module individually with minimum required marks.

Examination scheme is as follows:

Theory (Each Question will carry 1 mark) Duration (in Min): 90		Practical			Internal Assessment (Marks)	Major Project/ Dissertation		Total
Papers	No. of Questions /Paper	Papers	Duration Min)	Marks /Paper		No. Of Projects	Marks	
2	100	1	90	90	30	1	30	350

Theory Papers

- Theory 1 – Full Stack Development Associate – paper I
- Theory 2 – Full Stack Development Associate – paper II

Practical Papers

- Practical 1 – Full Stack Development Associate

Means of Assessment					
	Theory	Practical	Internal Assessment	Major Project/ Dissertation	
No of Papers	02	01	01	01	
Marks Each Paper	100	90	30	Presentation	Projects
				15	15
Total Marks	200	90	30	30	
				350	

Grading Scheme

Following Grading Scheme (on the basis of total marks) will be followed:

Grade	S	A	B	C	D	Fail
Marks Range (in %)	85 to 100	75 to 84	65 to 74	55 to 64	50 to 54	Below 50

Final Grading as per above grading scheme will be given on the basis of total marks obtained in all modules.

Faculty

Mr. Sakthi Guru. N.S	Ms. Vimala .P
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Detailed Syllabus

1. Design and Development of Front-End Applications

- Introduction to Internet and Web Design
- Understanding Web Pages and Websites
- Understanding Client-Server Architecture
- Introduction to Front-End Development
- Understanding Static and Dynamic Websites
- Introduction to Responsive Web Design

2. HTML and Web Page Development

- Introduction to HTML and HTML5
- Understanding HTML Document Structure
- Working with Text, Links, Images and Lists
- Creating Tables and Forms
- Working with Input Types
- Creating Semantic Web Pages

3. CSS, Bootstrap and Responsive Web Design

- Introduction to CSS and CSS Selectors
- Understanding CSS Box Model and Positioning
- Implementing Flexbox and Web Layouts
- Introduction to Bootstrap
- Understanding Bootstrap Grid and Components
- Developing Responsive Web Pages

4. JavaScript and Front-End Programming

- Introduction to JavaScript
- Working with Variables, Operators and Data Types
- Implementing Conditions, Loops and Functions
- Working with Arrays and Objects
- Understanding DOM Manipulation and Events
- Form Validation and Browser Storage

5. Backend Python Programming

- Introduction to Python Programming
- Understanding Variables and Data Types
- Working with Operators and Control Statements

- Implementing Functions and Built-in Functions
- Working with Files and Modules
- Handling Exceptions

6. Python Object-Oriented Programming

- Introduction to Object-Oriented Programming
- Understanding Classes and Objects
- Working with Constructors and Destructors
- Understanding Encapsulation and Abstraction
- Implementing Inheritance and Polymorphism
- Working with Static and Class Methods

7. Database Connectivity with MySQL/SQLite

- Introduction to Databases and RDBMS
- Introduction to MySQL and SQLite
- Creating and Managing Databases and Tables
- Performing INSERT, SELECT, UPDATE and DELETE Operations
- Understanding Query Parameters and Joins
- Connecting Applications with Databases

8. Dynamic Web Application Development using Django

- Introduction to Django Framework
- Creating Django Projects and Applications
- Understanding Django MVT Architecture
- Configuring URLs, Views and Templates
- Working with Django Models and Migrations
- Developing Forms and Dynamic Web Applications

9. Django ORM, Authentication, Security and Version Control

- Understanding Django ORM and Database Queries
- Working with Django Admin and Superuser
- Implementing Authentication and Authorization
- Understanding CSRF, XSS and SQL Injection Prevention
- Implementing Secure Password and Session Management
- Introduction to Git and Version Control

10. Employability Skills and OJT/Project

- Career Development and Goal Setting
- Essential Digital and Communication Skills
- Teamwork and Professional Skills
- Getting Ready for Apprenticeship and Jobs
- Problem Definition, Requirement Analysis and Project Development
- Testing, Documentation, Presentation and Deployment