

नेशनल इंस्टीट्यूट ऑफ इलेक्ट्रॉनिक्स एंड इंफॉर्मेशन 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

Online Certificate Course in Full-Stack
Web Development using AngularJS,
ReactJS and PHP



Index

Topic	Page No.
Objective of the Course.....	3
Outcome of the Course.....	3
Course structure.....	4
Course fees	4
Eligibility.....	5
How to Apply	5
Admission procedure.....	5
Selection Criteria of candidates.....	5
Discontinuing the course.....	5
Course timings	5
Course contents.....	6
Location and how to reach.....	8

Course Prospectus

Name of the Group	:	Data Science
Course Name	:	Online Certificate Course in Full-Stack Web Development using AngularJS, ReactJS and PHP
Duration	:	8 weeks - 80 Hours (02:00 Hours per Day)
Course Coordinator	:	Jayakodi R, Mobile: 7829277785
Start Date	:	13-10-2021
Time	:	3.00 PM to 5.00 PM
Last Date of Registration	:	12-10-2021

Objective of the Course:

The **Online Certificate Course in Full-Stack Web Development using AngularJS, ReactJS and PHP**, 80 hours program offered by NIELIT-Chennai is an excellent blend of knowledge and practice in the field of web design, development and its industrial applications. The course progresses from the scratch by learning and designing from the Client side technologies and Server side technologies with database integration. The program also offers real-life analytical projects for participants to get equipped with strong analytical and programming which makes them highly demanding and employable on completion of the program.

The objective of this program is to give the full-fledged knowledge for webpage designing from the client side and server side. Our aim is to create a pool of talent to become well versed in full stack web designing. This course guides in usage as well as provide hands-on experience with real world designing.

Outcome of the Course: On completion of the course, the Participants will learn the various web development technologies using open source tools. They will be able to decide, design and develop full stack client and server web application.

Requirements:

- ✓ You will need access to a PC/Laptop with an Internet connection.
- ✓ You must have at least 8GB of free RAM on your system.
- ✓ A basic familiarity with the Linux command line will be very helpful.

Course Structure:

S.no	Topic	Duration (in weeks) via Online mode
1	Module 1: HTML, CSS and CSS Framework	1 week
2	Module 2: Javascript and Bootstrap	1.5 week
3	Module 3: AngularJS	1 week
4	Module 4: ReactJS	1 week
5	Module 5: PHP	1 week
6	Module 6: MySQL	1 week
7	Module 7: Cassandra	1 week
8	Module 8: Case Study	0.5 week
Total		8 weeks

Other Details:

Course Fees: Rs.4000/- (Including GST) (Non-Refundable)

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

1. If course postponed and new date is not convenient for the student.
2. If course cancelled

Payment Schedule:

The Fee has to be paid in one installment as given below.

Installment No	Last Date of Payment	Amount (in Rs.)
1	12-10-2021	Rs. 4000/-

Eligibility:

- ✓ B.E./B.Tech/B.C.A./M.C.A./B.A/B.Sc/A-Level/Any Graduate having knowledge of computer.

How to Apply:

Candidates can apply online in our website <http://reg.nielitchennai.edu.in>. Payment be paid through any of the following modes: GPay, Internet Banking or any UPI

- ✓ Online transaction: Account Holders Name: NIELIT Chennai,
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: 12-10-2021

Selection Criteria of candidates:

Selection is based on the first come basis (subject to fulfilling the eligibility criteria)

Admission Procedure:

All interested candidates are required to fill online Registration form with the Course fees before 12-10-2021 with all the necessary following documents.

- Original and self-attested Copies of Proof of Age, Qualifying Degree (Consolidated Mark sheet & Degree Certificate/Course Completion Certificate), etc.
- One passport size photograph.
- Self-attested copy of Aadhar card (Compulsory for SC/ST students)

Note: Working days are from Monday to Friday.

Discontinuing the course: No fees under any circumstances shall be refunded in case of a student discontinuing the course. No certificate shall be issued if discontinued.

Course Timings: 2 hours online daily (from Monday to Friday).

Mode of Training: Online Instructor Led

Course Contents:

Client Side Technologies:

Module 1: HTML, CSS and CSS Framework

HTML:

HTML: Introduction, Structure of HTML, Head Section and Elements of Head Section, Formatting Tags, Tables, Lists, Forms, Form, Frames.

HTML 5 Introductions, Elements, Form Validations, HTML Layout, HTML Iframe.

CSS:

Introduction to CSS, Types of CSS, Selectors, Properties, Lists, Tables, Menu Design, Image Gallery, Image Gallery.

CSS Framework (W3.CSS):

Web Site Development using W3.CSS Framework, Colors, Containers, Panels, Borders, Fonts, Text, Tables, List, Images, Grid.

Module 2: JavaScript

Introduction to Client Side Scripting Language, Variables in Java Script, Operators in JS, Conditions Statements, JS Popup Boxes, JS Events, Basic Form Validations in JavaScript.

Module 3: Bootstrap

Introduction to Bootstrap, Containers, Grid system, Topography, Components, Plug-ins.

Module 4: AngularJS

Introduction to Angular JS, Expressions, Directives, Controllers, Modules, Forms.

Module 5: ReactJS

Introduction to ReactJS, Environment setup, JSX, State, Props, Components, Life cycle.

Server Side Technologies:

Module 5: PHP

Introduction to PHP, functions, Environment setup in Linux and windows, Arrays, Control Structure, String, Function, Cookies, Sessions, Forms (GET and POST), File, Sending emails, Exception, Regular Expression, Mysqli functions, Object Oriented Programming in PHP, projects.

Module 6: MySQL

MySQL basics, functions, Connect, Querying MySQL database, mysqli extension, PDO objects.

Module 7: Cassandra

Introduction to Cassandra, Architecture, Installation, Create Database, Insert Data, Modelling Data.

Module 8: Case Study

Library websites: PHP with MySQL

As web sites grow in complexity it is important to choose the right technology to deliver the information. Here we discuss the advantages of database backed web sites and our model for a library web site using open source software, PHP and MySQL. Dynamically generated web sites are easy to manage and offer significant advantages over those built with static HTML.

Farming System: PHP with Cassandra

A web project case allows the farmer, retailer and supplier communication. It provides an option of login to farmers and communicates to dealers. Farmers get notified if dealers give a new deal for the crops. The farmers will have an option to submit their complaints to respective dealers or authorities using their login on a separate complaints page and authorities will get access to that page regularly using their login id and passwords.

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: (1) Jayakodi R, Mobile: 7829277785
(2) Dr. Sanjeev Kumar Jha, Mobile: 7765803105

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.



Director, NIELIT Chennai



Dr. Pratap Kumar S

Director

Dr. Pratap Kumar S, is BTech (Electrical Engineering), MTech (Digital Electronics), MBA (Marketing) and PhD (Strategic Management). He has More than 29 year's experience in planning and execution of industrial consultancy projects, and capacity building projects funded by both industry and central & state ministries. Executed 7 major industrial consultancy projects and associated with the development of more than 50 product technologies, empowered more than 10,000 candidates through various capacity building programs and facilitated more than 40,000 job seekers through various job fairs and outreach programs. He has expertise in Strategy, Product Development, Automotive Electronics, Embedded Systems, and Power Electronics.

Programme Co-Ordinator



Dr. Sanjeev Kumar Jha

Joint Director and Head (Academics)

Dr. Sanjeev Kumar Jha, is Masters in Statistics and Ph.D. in Computer Science and Engineering. He has extensive experience of more than two decades as an educator and researcher. He has published various research papers. Currently, he is Joint Director (Technical) at National Institute of Electronics and Information Technology (NIELIT), Chennai. He has expertise in various domains like Data Science, Big Data, Power BI and Software Development (Open Source). He has more than 24 years of experience in planning and execution of various training Programs and capacity building projects funded by both industry and central & state ministries.

Faculties



Jyakodi R

Resource Person

Jyakodi R is Masters of Engineering specialization in Software systems. She is a Resource Person (IT) at National Institute of Electronics and Information Technology (NIELIT), Chennai. She has an experience in various domains like Telecommunication domain and hands on experience in Java technologies. Her areas of interests include Web Technologies, Databases and Software Development.

