

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the following courses conducted by NIELIT Calicut with Syllabus as mentioned below is considered for employment positions in the cadre of Web Developer, Java Software Developer, Android App Developer, System Engineer, Data Analyst, Data Scientist, Network Engineer, Cloud Engineer, and Security Engineer as per market demand of the IT industry.

We highly endorse the structure and content of the above courses, which facilitates the goal of creating professionals from fresh graduates and there by bridging the gap between the academics and the industry.

Vishudh Sasidharan
Operations Manager

Course Syllabus

1. PG Diploma in Software Technology

Syllabus: C#.Net, VB.Net, Asp.Net, Core Java, Advanced Java & JEE/ Android mobile Application Development and projects.

2. Advanced Diploma in .NET Technologies

Syllabus: C# .Net, VB.Net, ASP.Net, AJAX, LINQ, ASP.Net MVC and Project

3. Advanced Diploma in Android Application Development

Syllabus: Core Java, Android application development –Basics, File management, Database management , Location based services, Packaging and deployment & Project

4. Advanced Diploma in Java Enterprise Edition(JEE)

Syllabus: Core Java, GUI Development with AWT & Swing, Database Programming- JDBC, Advanced Java, JSP, Servlets, EJB, Struts, JSF, Hibernate, Spring & Project

5. Advanced Diploma in Web Application Development using PHP and MySQL

Syllabus: TML -JavaScript - jQuery - PHP – Building Forms from Queries, Combining jQuery and PHP - PHP Cookies, Session, PHP & XML - PHP & AJAX - MySQL - PHP & MySQL – Project

6. Advanced Diploma in Big Data Analytics

Linux & Java

Linux environment, commands, built-in tools for data analysis.
Java programming in Linux

R: R Environment, Vectors, Factors, Lists, Matrices, Arrays, Data Frames, Subsetting. Control Structures, Functions, Reading data – Text, CSV, HTML, JSON, MySQL. Grouping functions, Data visualization - barplot, pie, scatterplot, histogram, scatter matrix, ggplot. Statistical Analysis of data- Summary Statistics, Tabulation methods. Probability distributions in R- Normal, Poisson, Binomial. Correlation and Regression, Hypothesis Testing.

Python: Python -features, program execution, data structures, List, Dictionary, Tuples, If statements, looping and loop control statements, Functions and Modules, Generators, import statement, namespaces-packages, Class concepts, Exception handling, Regular Expressions, Database access, XML parsing, Python for data analytics – using numpy, matplotlib and pandas.

BigData & Hadoop: Hadoop Architecture and HDFS, Mapreduce Architecture with examples, YARN Architecture, nosql databases with examples, transferring data with Sqoop, data ingestion into Hadoop with Flume, Familiarization of Oozie, HBase, Hive and HiveQL, Pig, Distributed processing on a Cluster, Integrating R and Hadoop

7. Post Graduate Diploma in Cloud Computing

Syllabus:Introduction to Network Management, Introduction to Windows & Linux Server, Scripting, Virtualization, Cloud Computing, Cloud Infrastructure, Cloud Security and Project.

8. Course Name: Post Graduate Diploma in Information System Security

Syllabus:Computer Fundamentals and Computer Networks, Operating System Administration, Information Security Concepts, System Security, Mini Project in Basic Security, Cryptography & Network Security, System & Device Security, Mobile & Wireless Security, Database & Web Application Security, Mini Project in Advanced Security.

9. Course Name: Advanced Diploma in Information System Security – Level - I

Syllabus:Computer Fundamentals and Computer Networks, Operating System Administration, Information Security Concepts, System Security, Mini Project in Basic Security.

10. Course Name: Advanced Diploma in Information System Security - Level - II

Syllabus:Cryptography & Network Security, System & Device Security, Mobile & Wireless Security, Database & Web Application Security, Mini Project in Advanced Security.

We are an IT solutions, Services and Consultancy firm do prefer above courses of NIELIT for employment opportunities to the candidates of this region possessing the above courses.