



**NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY
(NIELIT), CALICUT**

(Formerly DOEACC CENTRE CALICUT)

CDS/CA/7.5.1/F 40/R1

COURSE PROSPECTUS

Name of the Group: IT Group
Name of the Course: PG Diploma in Software Technology
Course Code: SW-100
Starting Date: 29-Feb-2012
Duration: 6 months

Preamble:

Given the growing demand for skilled professionals, and the rapid changes in technology, there is an increasing need to keep the academia abreast of the skill set requirement of the industry. The course has been designed to meet this requirement. This job-oriented course is designed with a proper balance of theory with practice, so that students get enough hands on experience. The project work at the end of the course enables students to get an exposure to industrial standards.

Objective of the Course:

The course is a 6 month course aimed at preparing fresh graduates for professional positions in the software and IT industry by developing advanced skills in cutting-edge technologies like JEE and .Net technology.

Outcome of the Course:

This is a hands on course which provides participants with the information and lab experience necessary to develop and deploy robust JEE 6 (Java Platform Enterprise Edition) framework applications. This course starts with core java and covers advanced Java and JEE. In the next module, participants will learn to develop applications using C#, VB.NET. They will also learn to apply these languages to develop server-side applications which make use of ADO.NET, ASP.NET, Web Services etc

Course Structure:

SW-100	Module Name	Weeks	Fees
SW-101	Advanced Course in J2EE	12	26100
SW-102	Advanced Course in .NET technologies	12	26100
	Fee for SW-100: Rs. 49500 (Service Tax extra)		

More than 50% of the time will be devoted for guided practical sessions. The topics covered in each of the modules are given below.

Other Contents

a. Course Fee

SW-100 PG Diploma in Software Technology		
<u>General Candidates</u>		
	Amount	Due Date
1 st installment	~ 30000 + Service Tax(10.3%) + Admission Fee ~ 250	29-Feb-2012
2 nd installment	~ 19500 + Service Tax (10.3%)	On or before 04-June-2012
<u>SC/ST Candidates</u>		
Single Installment	~ 4400**	29-Feb-2012

** Subject to Terms & Conditions



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Mode of Payments:

1	Demand Draft to be drawn in favor of Director, NIELIT Calicut, Payable at State Bank of India, Calicut NIT Branch(2207). The DD should reach here before the last date to apply.
2	Using the pay in slip available in our web site (Pay in slip), through any branch of SBI (where this format is accepted). The original counterfoil should reach here before the last date to apply.
3	<p>The fees can be paid directly into our account from any bank where core banking facility is available. The details required for direct payment are as given below.</p> <ul style="list-style-type: none">• Account No: 31732177476• Bank Name: SBI, NIT Chathamangalam• Bank Code: 2207• IFSC No: SBIN0002207• MICR Code:673002012 <p>The depositor should obtain the UTR Number/Journal No from the branch while depositing cash directly into our account. Depositor should also obtain the counterfoil duly filled up and signed by the staff with seal of the bank through which the amount was deposited. The following details should reach here before the last date to apply.</p> <ol style="list-style-type: none">1. Name of the Depositor2. Name of the Student3. Date of Payment4. Amount Deposited5. Name of Bank/branch through which amount deposited6. Purpose – Course ID – Advance Fee/Hostel Rent/Installment Fee etc.7. Proof of Deposit (counterfoil/acknowledgement in original)8. UTR Number

Forwarding of Application Forms/DD : The application forms along with the demand draft are to sent to the **Training Officer, National Institute of Electronics and Information Technology Calicut (Formerly DOEACC Centre), P. B. No.5, NIT Campus Post, CALICUT –673 601, Kerala.** Phone: 0495- 2287266, 2287124, Fax: 0495-2287168. Email: trng@doeaccalicut.ac.in.

NIELIT will not be responsible for any mistakes done by either the bank concerned or by the depositor while remitting the amount into our account.

b. **Eligibility:** BE/BTech, Msc(IT/ computer Science / Electronics), MCA, BCA or equivalent of any of these. Degree holders with PGDCA, DOEACC A, B level, Diploma in Computer Science/ Electronics, or others with relevant experience.

c. **Number of Seats** : 20

d. **How to Apply** :

Students are advised to apply in the prescribed Application Form available with the course brochure/course prospectus or downloaded from our website. Filled in application forms along with a Demand Draft towards advance fee of Rs.1000/- drawn in favour of Director, NIELIT Calicut, Payable at State Bank of India, Calicut



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NIT Branch(2207) should be sent to the **Training Officer, National Institute of Electronics and Information Technology Calicut (Formerly DOEACC Centre), P. B. No.5, NIT Campus Post, CALICUT – 673 601, Kerala. The Name of the Course Applied for should be super scribed on the top of the cover in which the application form is forwarded.**

- e. **Selection of candidates:** Admission will be based on the marks scored in the qualifying exam.
- f. **Test/Interview(if applicable) :** Not applicable
- g. **Counseling/Admission :** 29-Feb-2012
- h. **Admission Procedure :**
Students who have been selected for test/interview/counseling/admission are required to report to the Institute on the prescribed day by 9:30 hrs along with the following
1. Attested Copies of Proof of Age, Qualifications, etc
 2. Original Certificate of the above
 3. Two copies of photograph and one stamp size photograph for identity card.
 4. ORIGINAL Community Certificate or SC/ST Certificate (**in English or Hindi only**) issued by an Officer not below the rank of Tehsildar. (If applicable)
 5. Income Certificate (if applicable)
- The students on reaching the Institute are required to meet the Front Office Councilor (FOC). The FOC then directs the student to the Course Coordinator. The student gets the enrollment form verified by the Course Coordinator and then meets the FOC who shall direct the student to the Accounts for payment of fees. A student is thus admitted.
- i. **Discontinuing the course:** No fees under any circumstances shall be refunded in the event of a student discontinuing the course. A student can however, be eligible for module certificates (applicable only for courses which provide for modular admission) which he has successfully completed provided he has paid the entire course fees.
- j. **Course Timings :** 9.30 am to 12.30 pm and 1.30 pm to 5.15 pm Monday to Friday
- k. **Location and How to reach :**
NIELIT Calicut is about 22Kms from the Calicut (Kozhikode) city and close to NIT (REC) campus. A number of buses [Buses to NIT via Kunnamangalam] are available from "Palayam Bus Stand or KSRTC Bus Stand". Our stop is called "Panthrand" & is one stop before NIT. The bus fare is around ` .13/- from Calicut City to NIELIT.

Calicut city is well connected by Rail, Road and Air from different parts of the country. The climatic conditions in Calicut are perhaps one of the best in India throughout the



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year. The maximum and minimum temperatures range between 35 and 20°C. The cool breeze further adds the comfort.

l. 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).

Telephone Numbers:

Office	0495 - 2287266 / 2287268
Director's Office	0495 - 2287123
Training Officer/ coordinator SW-100	0495 – 2287266 / 2287178
Office Fax	0495 - 2287168
E- mail:	trng@doeaccalicut.ac.in
Website:	www.doeaccalicut.ac.in

m. Important Dates (if applicable) :

Last date for submitting application	– 24-Feb-2012
Selection intimation through E-Mail	– 24-Feb-2012 (After 5.00 PM)
Counseling/Admission	– 24-Feb-2012

- n. **Placement :** Our Placement Cell provides placement assistance to students who qualify our courses. About 80% of students are already placed in various companies like Wipro, TCS, Samsung, BDI Systems etc.

o. Hostel facilities :

Hostel accommodation is available for boys and girls on daily or monthly chargeable basis. *The hostel fee varies from ` 650/- to ` 1,050/- (for boys) per month and ` 650/- to ` 750/- (for Girls) per month depending on the location of accommodation.* However, students are required to pay the hostel fees for the duration of the course for which they are seeking admission at the time of joining the course.

p. Canteen facilities :

The Institute has a canteen functioning at the main campus and food at reasonable rates is available for breakfast, lunch, and dinner

q. Lab Facilities :

The IT Lab is equipped with high-end Intel Xeon Dual Processor based servers and more than 100 networked PCs with internet facility. A variety of software is available which include Operating Systems like Windows 2008 Server, SCO UNIX, QNX, Novel NetWare, RedHat Linux, RT Linux and development tools like Visual Studio 2010, Kylix, Rational Rose, and Cold Fusion and RDBMS like Oracle and SQL Server 2008.



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r. Course Contents : Core Java

Introduction to Java Platform, Data Types, Variables, Arrays, Operators, Control Statements, Java Classes and Objects, Methods, Inheritance, Packages and Interfaces, Exception Handling, Threads and Multi Threading, I/o, String Handling, Java.Lang, Collections, Network Programming

GUI Development

Java AWT, Text Fields, Buttons, Layout Managers, Event Handling, Applets, Graphics, JFC Swing, Swing Components, Animations

J2EE

Intro to JEE 6, JDBC, RMI , Jar, WAR, JSP, JSTL, Servlets, JNDI, EJB - Session Bean - Stateless, Stateful, Entity Bean , Introduction to Struts Framework, JSF.

C#

Getting Started with .Net Framework, Exploring Visual Studio .NET, Inside a C# Program, Data Types, Statements, Arrays, Using Strings, Objects, Classes and Structs, Properties, Inheritance, Indexers, Delegates, Events, Namespaces, Generics, Collections and Data Structures, Exception Handling, Threading, Using Streams and Files, Reflection, Assemblies, versioning, Windows Forms, Controls, Data binding to Controls, Advanced Database Programming using ADO.net, Using GDI +, Networking,.net Remoting, Manipulating XML.

VB.net

Creating Applications with Visual Basic.NET, Variables, Constants, and Calculations, Making Decisions and Working with Strings, Lists, Loops, Validation, Sub Procedures and Functions, Multiple Forms, Standard Modules, and Menus, Arrays, Timers, Form Controls, File Handling, Exception Handling, Working with Databases, Advanced Database Programming using ADO.net, Classes, Generics, Collections, Inheritance, Custom Controls, Packaging & deployment, Using Crystal Reports.

ASP.net

Building a Web Application, Examples Using Standard Controls, Using HTML Controls, Validating Form Input Controls using Validation Controls, Understanding Applications and State, Applying Styles, Themes, and Skins, Creating a Layout Using Master Pages, Binding to Databases using Controls,



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Data Management with ADO.net , Creating a Site Navigation Hierarchy,
Navigation Controls , Membership and Role Management, Login Controls,
Securing Applications, Caching For Performance, Working with XML, Using
Crystal Reports in Web Forms, AJAX, LINQ.