National Institute of Electronics and Information Technology, Calicut

COURSE PROSPECTUS

Name of the Group:	IT Group
Name of the Course:	PG Diploma in Software Technology
Course Code:	SW-100
Starting Date:	07-Sep-2015
Duration:	24 Weeks *Full Time Monday to Friday*
	9.30 AM to 5.00 PM

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 24 weeks full time 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 or Android application 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.

Advanced Diploma in Android Application Development course gives a practical training on a collection of classes which help you build great apps for Android

Course Structure:

SW_100:PG Diploma in Software Technology				
	Course Code	**Module Name**	**Weeks**	**Fees**
Module I	SW_101	Advanced Diploma in .NET Technologies	12	31250
Module II	SW_102A	Advanced Diploma in JEE	12	31250
	SW_102B	Advanced Diploma in Android Application Development		
	Fee for SW_100: ₹ 60000 (**Service Tax extra @actuals**)			

Students can select any one elective (SW_102A or SW_102B) from module II and SW101 from Module I which is compulsory. Modular admission is also possible. *More than 50% of the time will be devoted for guided practical sessions.*

Other Contents

a. **Course Fees :**

SW-100 PG Diploma in Software Technology
General Candidates : ₹ 60000 +* Service tax at actual
SC/ST Candidates : ₹ 6000** + *Service tax at actual

*Service Tax is presently 14% and revised rates are applicable as per Govt of India Orders

** **For SC/ST Category Applicants**: Tuition Fees/Examination fees are waived for SC/ST students admitted under SCSP/TSP. However they are required to remit an amount of Rs 6,000+ Service tax at actual as Advance caution/security deposit. This amount will be considered as caution/security deposit and will be refunded after successful completion of the course. If the student fails to complete the course successfully this amount along with any other caution/security deposits by the student will be forfeited.

b. **Course Fee Installment Structure:**

1. Deposit at the time of Course Registration of Rs.1000/- will be considered as caution deposit on student joining the course.

2. Fee Installment structure for PG Diploma programs is as follows:

SW-100 PG Diploma in Software Technology		
General Candidates		
	Amount	**Due Date**
Advance Deposit	₹ 10,000 / (Students who appear in selection list may pay this fees to confirm their seats)	On or before 04-Sep-2015
1st installment	₹ 30,000 + Service tax at actual = ₹ 34,200 **Net Payable**= ₹ 34,200 - ₹ 10,000 = ₹ 24,200 (if advance deposit paid)	07-Sep-2015
2nd installment	₹ 30,000 + Service tax at actual = ₹ 34,200	On or before 06-Nov-2015
SC/ST Candidates		
Advance Deposit	₹ 6000 + Service tax at actual = ₹ 6840	On or before 04-Sep-2015

Advance Deposit:
 After publication of first selection list, the students in the first selection list have to pay the advance Deposit within one week to take the provisional admission.

Students in the additional selection should pay both Advance and First installment fee together on or before counseling day.

Students can also pay the full fees of ₹ 68,400 (₹ 60,000 + Service Tax) or first installment of ₹ 34,200 (₹ 30,000+ Service Tax) against Advance Deposit.

First Installment:

₹ 35000 (which includes advance deposit of ₹ 10,000) + Service tax at actual. First installment should be paid on or before counseling date (07-Sep-2015).

Second Installment:

₹ 25,000 + Service tax at actual. Second Installment should be paid within two months after commencement of the course.

c. **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.

d. **Number of Seats : 20**
SC/ST candidates and Persons with disabilities are eligible for seat reservation as per existing rules

e. **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 (or pay-in-slip) towards advance fee of Rs.1,000/- drawn in favour of Director, NIELIT, Calicut, Payable at State Bank of India, NIT Campus Branch (code: 2207), Chathamangalam should be sent to the **Training Officer, NIELIT, 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.**

Modes of Payment: The course fee can be paid by one of the following methods as per your convenient.

1	Demand Draft to be drawn in favor of Director, NIELIT, Payable at State Bank of India, Calicut NIT Branch (2207). The DD should reach here before the last date to apply.
2	Through any branch of SBI (where this format is accepted) using the pay in slip available in our web site. The **original counterfoil** should reach here before the last date to apply.

3	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.

- Savings Account No: **31329537747**
- Bank Name: SBI, NIT Chathamangalam
- Bank Code: 2207
- IFSC No: SBIN0002207
- MICR : **673002012**

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.

1. Name of the Depositor
2. Name of the Student
3. Date of Payment
4. Amount Deposited
5. Name of Bank/branch through which amount deposited
6. Purpose – Course ID – Advance Deposit/Hostel Rent/Installment Fee etc.
7. Proof of Deposit (counterfoil/acknowledgement **in original**)
8. UTR Number

4	The fees can be paid through the **SBI Collect** Payment Gateway as well:

1. Please click the SBI Collect hyper link to enter the payment gateway.
2. Select State of Corporate/Institution as *Kerala*
3. *Select* Type of Institution *Educational Institutions* and click on *Go* button
4. *Select* Educational Institutions Name as *NIELIT* and click *Submit* button
5. Select Payment Category as *Course Fee*
6. Enter all the fields including amount payable and follow the instructions

The following details should reach here before the due dates.

1. Name of the Depositor
2. Name of the Student
3. Date of Payment
4. Amount Deposited
5. Purpose – Course Name:
6. UTR Number

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.

f. **Selection of candidates**: Selection of candidates who have the requisite qualifying degree will be based on the percentage of marks in their qualifying degree subject to eligibility and availability of seats. Selection of candidates who have completed the course but expecting the results shall be based on the aggregate percentage of marks mentioned in their final mark list and on the availability of seats.

g. **Test/Interview (if applicable)** : Not applicable

h. **Counseling/Admission** : 07-Sep-2015

i. **Spot Admission**: If spot admission is open, spot admission will close within 15 days of Counseling/Admission of a particular course. On spot admission students should provide an undertaking saying that he/she is fully aware that he/she missed so much days of class and will not ask for further extension of course.

j. **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. SC/ST Certificate (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.

k. **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.

l. **Course Timings:** 9.30 am to 12.30 pm and 1.30 pm to 5.15 pm Monday to Friday

m. **Location and how to reach :**
NIELIT Calicut is located very close to NIT campus and is about 22Kms from the Calicut (Kozhikode) city. A number of buses (Buses to NIT via Kunnamangalam) are available from "Palayam Bus Stand and KSRTC Bus Stand". The bus stop at our Institute is called "Panthrand" and is one stop before NIT. The bus fare is around ₹.*15/-* from Calicut City to NIELIT.

Calicut (Kozhikode) is well connected by Rail, Road and Air form different parts of the country. The maximum and minimum temperatures range between 35^0C and 20^oC.

n. **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	0495 – 2287266 / 2287178
Coordinator (SW-100)	0495 – 2287266 (Extn:226), **Mob: 9447335996**
Office Fax	0495 - 2287168
E-mail:	**trng@calicut.nielit.in** **sini@calicut.nielit.in**
Website:	**http://calicut.nielit.in**

o. **Important Dates (if applicable) :**
Last date for submitting application   – 31-Aug-2015
Selection intimation Through Website   – 31-Aug-2015(After 5.00 pm)
Counseling/Admission   – 07-Sep-2015

p. **Placement :**
Our Placement Cell provides placement assistance to students who qualify our courses. This course helps the students to improve their technical and practical knowledge which enable them to apt for the industry requirements. Also, Our Placement Cell conducts weekly placement test and mock interviews to enhance the student's confidence to face the industry based tests and interviews.
The students are getting placed by,
- Campus placement
- Forward the collected resumes of students to companies, who approach us for their manpower requirements,
- Students themselves attend interview at different companies with recommendation letters/certificates of the course.

About 80% of students are already placed in various companies like Wipro, TCS, Samsung, BDI Systems, Cognizant, Fujitsu, Ospyn Technologies and many more.

q. **Hostel facilities :**
Hostel accommodation is available for boys and girls on daily or monthly chargeable basis. *The hostel fee varies from Rs.850/- to Rs.1,300/- (for boys) per month and Rs.1,000/- to Rs.1,400/- (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.

r. **Canteen facilities :**
The Institute has a canteen functioning at the main campus and food at reasonable   rates is available for breakfast, lunch, and dinner

s. **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 Windows OS all versions and applications, MSDN Subscription, Adobe CS Master Collection, Rational Rose, VMWare, Kylix, Cold Fusion and multimedia development tools. The 24x7 Wi-Fi campus enables the students to get on-line anywhere on campus.

t. **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

JEE

Intro to JEE 6, JDBC, JSP, Servlets, JNDI, EJB - Session Bean - Stateless, Stateful, Entity Bean, Introduction to Struts Framework, JSF, Hibernate, Spring.

C#.Net

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, 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, Windows Presentation Foundation Controls, Working with Databases, Advanced Database Programming using ADO.net, Classes, Inheritance, Custom Controls, LINQ, Packaging & deployment, Using Crystal Reports.

ASP.Net

Building a Web Application, Examples Using Standard 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, Data Management with ADO.net, Creating a Site Navigation Hierarchy, Navigation Controls, Login Controls, Securing Applications, Working with XML, Using Crystal Reports in Web Forms, AJAX, Developing Rich Interactive Applications with Silverlight.

The following texts do not form part of the prospectus:

This approval is valid for uploading to NIELIT, Calicut website as well.

Signature of the Course Coordinator:

Signature of Training Officer:

Approved/Not Approved

Director

Guidelines:
1. All Text in Italics are to entered by the course coordinator
2. The Course Prospectus to be put to Director for approval through Training Officer before issue.