



DOEACC CENTRE CALICUT
COURSE PROSPECTUS

CDS/CA/7.5.1/F 40/R0

Name of the Group: **IT Group**

Name of the Course: **Advanced course in Information System Security**

Course Code: **SW503**

Starting Date: **15th Nov 2010**

Duration: **3 Months**

Preamble:

As much as it is important to know how to use a computer, so is it necessary to know how to protect your computer on a network. The information on the computer is an asset and the risks are very high. There are no geographical limitations to computer attacks.

With the proliferation of easy-to-use tools and open how-to-discussions, the number of people aiming to hack in to or bring down the network is high, both in this country and abroad. Hence there is a need for heightened security measures to protect both infrastructure and data.

Objective of the Course: This Course aims at developing the skills required for a system administrator to secure the systems and network from all kinds of attacks.

Outcome of the Course: This skill oriented course equips the system Administrators with the skills required to protect & recover the computer systems & networks from various security threats.

Course Structure:

<i>Code</i>	<i>Module Name</i>	<i>Duration</i>
SW503	Advanced course in Information System Security	3 Months [15/11/10]

a. Course Fees : SW503: **Rs 21000/- + Rs 250/-** (Admission Fee) + Service tax on the course fee will be charged extra at actual. (Present rate of service tax is 10.3 %).

b. Mode of Payments :

1. Demand Draft to be drawn in favor of Director, DOEACC Center 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, through any branch of SBI (where this format is accepted). 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.

Current Account No: **10401158037**

Bank Name: **SBI, NIT Chathamangalam**

Bank Code: **2207**

IFSC No: **SBIN0002207**

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.

- A. Name of the Depositor
 - B. Name of the Student
 - C. Date of Payment
 - D. Amount Deposited
 - E. Name of Bank/branch through which amount deposited
 - F. Purpose – Course ID – Advance Fee/Hostel Rent/Installment Fee etc.
 - G. Proof of Deposit (counterfoil/acknowledgement **in original**) UTR Number
- c. Eligibility: Graduates with IT, Computer Science or Electronics as optional subjects, Graduate in Engineering, M.C.A, DOEACC A Level, B Level, PGDCA or Diploma with experience in Linux Administration
- d. Number of Seats : 40
- 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 towards advance fee of Rs.1000/- *drawn in favour of* Director, DOEACC Centre, Calicut, *Payable at* State Bank of India, CREC Branch, Chathamangalam should be sent to the **Training Officer, DOEACC Centre Calicut, 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.** Hostel accommodation (if required) can be reserved on payment of Rs.500/- along with the advance fee.
- f. Selection of candidates: Selection of candidates who have passed in the qualifying examination will be based on their marks in the qualifying examination subject to eligibility and availability of seats.
The admission to the course shall be based on the following criteria:
1. Should have passed the eligibility criteria as mentioned above.
 2. The list of selected students shall be published in our web site. Individual call letters **by email alone** will be sent to the candidates.
 3. The admission for the selected students shall be confirmed only after verifying their original certificates. The verification of certificates for such candidates shall be on the date of commencement of examination. Fee shall be refunded for those whose credentials are found to be incorrect.
- g. Test/Interview (if applicable) : *Not Applicable*
- h. Counseling/Admission : **15/11/10**

- i. Admission Procedure : Students who have been selected for test/interview/ counseling/admission are required to report to the Centre 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.

The students on reaching the Centre 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 section for payment of fees. A student is thus admitted.

- j. 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) for modules he/she has successfully completed provided he/she has paid the entire course fees.
- k. Course Timings : 9.15A.M - 12.30PM and 2.00P.M -5.15PM [Monday – Friday]

Location and How to reach: DOEACC CENTRE Calicut is located very near to NIT DOEACC CENTRE Calicut is located very near to NIT (REC) campus and is about 22Kms from Calicut (Kozhikode) city. 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 Rs.10/- from Calicut City to DOEACC Centre and is on the right side. Calicut (Kozhikode) is well connected by Rail, Road and Air from different parts of the country. The maximum and minimum temperatures range between 35° and 20°.

- 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).
- m.

Telephone Numbers:

Office	0495 - 2287266 / 2287268
Director's Office	0495 - 2287123
Training Officer	0495 – 2287266
SW503 Course Coordinator	0495 – 2287178
Office Fax	0495 - 2287168

E-mail: trng@doeaccalicut.ac.in

Website: www.doeaccalicut.ac.in

- n. Important Dates (if applicable) :

Last date to submit application form: 12/11/10
Selection intimation in website: 12/11/10
Counseling/Admission: 15/11/10

Commencement of classes: 15/11/10

Payment of fee: On or before 15/11/10

- o. Placement : Placement support will be provided
- p. Hostel facilities: Hostel accommodation is available for boys and girls on daily or monthly chargeable basis. The hostel fee varies from 450/- to 900/- 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.
- q. Canteen facilities : The Centre has a canteen functioning at the main campus and food at reasonable rates is available for breakfast, lunch, and dinner
- r. 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 2003, XP, RedHat Linux, RT Linux and development tools like Visual Studio 2005, NetBeans 5.1, Rational Rose, and Cold Fusion and RDBMS like Oracle and SQL Server 2005.
- s. Course Contents :
 - Advanced course in Information Systems Security - 12 weeks**
 - a. Information Security Concepts [10 days]
 - i. Security Basics
 - ii. TCP/IP
 - iii. Security Management Practices;
 - iv. Physical Security; Access Control;
 - v. Security Models and Architecture;
 - vi. Cryptography
 - vii. Disaster Recovery and Business Continuity;
 - viii. Law, Investigation, and Ethics;
 - ix. System Development; and Operations Security.
 - b. Security Implementation [20 days]
 - i. Configuring & Securing Network Applications [Web , Mail, DNS, SAMBA , SSH, LDAP, Database]
 - ii. Implementing PKI
 - iii. Auditing the Network, Vulnerability Analysis;
 - iv. Policies for Enterprise users and Administrators
 - c. Advanced Topics [25 days]
 - i. Hardening OS &, Protocols
 - ii. Hardening Networks [Firewall, IDS, IPS, VPN, Content filters, Proxy, switches etc]
 - iii. Traffic shaping
 - iv. System Monitoring & Performance tuning
 - v. Network Monitoring
 - vi. Failover clusters

- vii. Network Security Assessment
- viii. Security Tools
- ix. Cyber Forensics
- x. Security Standards & Certifications
- d. IS Management task [5 days]
 - i. Backup/Restore
 - ii. Migration strategies
 - iii. Patch Management