ACADEMIC AFFAIRS

Course Number: PROG-326   Department: INFT

Course Title: Advanced Operating Systems   Semester: Fall   Year: 2003
with Windows

Course Objective	Competencies

1. To understand the advanced tasks that Operating Systems perform.
2. To understand how to set up and configure active directory
3. To understand how to set up and manage a window environment that provide core support services like email, DNS and DHCP.
4. To obtain an advanced knowledge of Windows.
5. To use many of Windows tools from both a command line and GUI perspective.
6. To be able to administer a Windows Server and to start looking at computer management from an administrators perspective.
	• Introduction to Window 2002 server operating system
	• Introduction to Window 2002 server
	• Features of Windows 2000 server
	• Installing Windows 2000 server Software
	• Performing an Upgrade – steps in performing a new installation
	• Setup – entering server settings for a new installation – configuring your server
	• Active Directory - Active Directory – Domains – Domain trees and forests
	    • Domain and account naming
	    • Domain Trusts – Explicit domain trusts – sites
	• Active Director User and Computer Accounts – Group Policy – DNS Integration – Groups – Built-in and predefined Groups
	• Active Directory object names - active directory clients – directory data store
	• General catalog – directory access protocol – single master operations – Forest-wide operations master roles
	• Domain wide operations master roles

Course Objective	Competencies
	- Active Directory - Windows settings – software installation - Folder redirection - Local group policy - Administering group policy - Configuring group policy - User profiles - Creating a roaming user profile - Backup, repair and restore - Backing up files and folders - Restoring a domain controller - Distributed file system - Reasons for using Dfs – Dfs - Adding a Dfs Link - Printing in Windows 2002 server - The printing process - Internet Printing - Printing and print servers - Printer Drivers - Printer fonts - Print Processors and data types - Administering printing - Networking – TCP/IP for Windows 2000 - TCP/IP Protocol - The TCP/IP model

Course Objective	Competencies
	• TCP/IP utilities • New TCP/IP features for Windows 2000 • Security Features of TCP/IP for Windows 2000 • Core protocols of TCP/IP • Address Resolution Protocol (ARP) • Internet Protocol • Internet Control Message Protocol (ICMP) • IP addressing • Subnet Masks • IP routing • Configuring TCP/IP for static addressing • Configuring TCP/IP to use DNS • Configuring TCP/IP to use WINS • Configuring TCP/IP to use an IPSec Policy
• Event Viewer	