

Our [**Hexan**[©]] course is first step in IT/CS and is mandatory for everyone.

TTB's registration fee, PKR. 2000/- for CIT 6 Months and PKR. 2000/- for DIT 1 Year, will be charged separately at the end of both courses.



TTB Registration No.	616/TTB/QITEL/QTA/2018
Official Website:	https://www.qitel.edu.pk
Official Email Address:	info@qitel.edu.pk
Official WhatsApp No.	0311-8377440
Official Address:	Adjacent to Winsome English Language Center, Satellite Town, Block-4, Quetta

CIT - CERTIFICATE IN INFORMATION TECHNOLOGY

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COURSE OUTLINE — 6 MONTHS	
□ Basics	
 Intro to Computer, Computer Science, & Information Technology 	
 History of computer 	
 Generations of computer 	
 Types of computer 	
 Classifications of computer 	
 Characteristics of computer 	
 Advantages and disadvantages of computer 	
 □ Basics ○ Intro to Computer, Computer Science, & Information Technology ○ History of computer ○ Generations of computer ○ Types of computer ○ Classifications of computer ○ Characteristics of computer ○ Advantages and disadvantages of computer ○ Hardware vs software ○ Types of hardware and software 	
* 1/2	
 Printer and types of printer 	
 Number system and their conversion (Binary and Decimal) 	
 Computer viruses and its type 	
 Fundamentals of OS (Microsoft Windows 10/ 11) 	
☐ Microsoft Office	
 Microsoft Word 	
 Microsoft Excel 	
 Microsoft PowerPoint 	
□ Programming Languages ○ HTML	
□ Programming Languages	
O HIML	
o C	
☐ Graphics Designing	
○ Inpage Urdu	
o CorelDRAW	
□ Computer Networking	
Basic Concepts, Designing Workgroup	
☐ Internet	L.
 Basic Concepts, Browsing, Downloading/ Uploading, E-Mail, Websit 	(e



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ACIT - ADVANCE CERTIFICATE IN INFORMATION TECHNOLOGY. COURSE OUTLINE - 6 MONTHS.

□ Database System○ Microsoft Access○ SQL	TECHNOLOGY
□ Apps Development	
∘ C/ C++ ∘ VB	
2 4	
☐ Computer Network	
Workgroup	1 /5/
o Domain	
○ Virtualization	///
	CU*
☐ Frontend Web Develop	mentaRANU
o HTML	
∘ CSS	



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COMPUTER HARDWARE COURSE OUTLINE – 1 MONTH

□ Introduction	
☐ Hardware vs Software	
□ Types of hardware and Software	AL TEC
☐ Basic parts of Computer (System Ur	nit, Monitor, Keyboard, Mouse)
☐ Variants of Hard Drives: HDD, SSD,	
	S Vs. UEFI, 32-bit Vs. 64-bit Processor and Apps
☐ Memory and its types	102
□ Disassembling and Assembling com	ponents of System Unit
☐ BIOS Settings:	1 6
 System specs, Boot Order, Sys 	tem password and Setup password, Enabling & disabling
hardware components, Enablin	g virtualization, Date and time
□ Operating System installation and c	onfigurations
 Microsoft windows 7, Windows 	8, Windows 10, Windows 11
o Linux	R I
☐ Install, configure, and activate follow	ving apps:
 Microsoft Office, CorelDraw, Ty 	pingMaster, PowerISO, Deep Freeze
□ Show the contents in Drive having s	shortcut virus and remove it
□ Norton Ghost & Disk Manager	1 191
□ Devices Drivers	1 151
□ Disable Windows Update and Updat	e Windows Defender
□ PowerISO	1 781
 Installing and configuring 	
 Creating CD/DVD/USB Images 	1 . 4
 Mounting an image 	DVD/BD
 Writing/Burning image on CD/D 	DVD/BD
 Creating Single & Multi Bootable 	
 Creating Multi-Boot CD/DVD/BI 	
☐ Windows Restore Point	
☐ Dual Hard Drives Installation and Co	•
	Passwords, System Key, PIN and Picture Passwords
Third-Party SoftwareWinRAR, Data Recovery, Antivi	iruaca UCP Dumper
	iruses, 056 Dumper
Configure PC for fast running:Disable Automatic Windows Up	odates o Log out other user accounts
Daniera LIDD with CCD	Minter at Management Design Ette
Frank Describe Din	Adiat Vara DO familiant manfamana
	 Adjust Your PC for best performance
	 Disk Defragmentation in HDD
 Disk Clean Up 	 Disk Defragmentation in HDD Delete Temporary files



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COMPUTER NETWORK **COURSE OUTLINE – 1 MONTH** TECHNOLOGIA GENGLIS

Network Theory

Introduction to and importance of networking
Types of networks (LAN, MAN, WAN)
Workgroup vs. Domain
Network topologies (bus, ring, star, hybrid)
Network media (guided & unguided)
Network devices (switch, AP, router, firewall)
Network addresses (logical & physical)
Classes of IPv4 addresses
Public vs. Private IP addresses
Data storage / transmission units & prefixes

Network Labs

- Make straight-through, cross-over, and rollover cables
- NIC/ WNIC installation & configuration П

Workgroup

- Designing and maintaining workgroup
- Folder and Drive sharing over workgroup
- Map network drive, Make available offline and Sync Center
- Remote desktop sharing, remote assistance, and Team viewer
- Printer, Game and Internet sharing

Domain

- Install and Configure VirtualBox
- Demonstrate the Creation and deletion of three VMs
- o Install Windows Server 20012, Windows 7, and Windows 10 in each VMs
- o Configure and verify six networking options in each VMs
- Install following Roles and Features in Server:
 - 於 Active Directory domain services
 - 分 **DNS** server
- Promote server to a domain controller
- Demonstrate creating and deleting users, groups, and OUs
- Demonstrate adding and deleting users to a group/ OU
- Join and leave domain using remaining two VMs at client side
- Share a folder with specific users/ OU
- Create following policies at server side and verify them at client side:
 - Prohibit access to control panel and PC settings
 - 命 Prevent access to drive in my computer
 - Remove Task Manager



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INTERNET COURSE OUTLINE – 1 MONTH

OUNSE OUTLINE - I MONTH
□ Internet History, Governance, and services
☐ Essential terminologies including but not limited to: Server, Client, Datacenter, CDN,
VPN, proxies, web browser, chrome extensions, ISP, uploading, downloading, online,
offline, MODEM, switch, router, submarine cable, fiber optic cable, twisted-pair cable,
network, internetwork, LAN, WAN, WLAN, AP, SSID, Wi-Fi Key, Bandwidth, Cybercrime,
scam, SERP, Firewall, Blog, Website, TLDs, ccTLDs, Domain Name, DNS, IP Address, URL
☐ Internet Vs. The Web
□ Layers of Web
□ Client-Server Model
☐ Before using Internet, one should keep in mind that?
☐ Disable Windows Automatics Updates and update Windows Defender
☐ Fundamentals of Browsing, Surfing, and Navigation
□ Search Engines and SEO
o Google, Bing, Yahoo
□ Domain Registrar and Web Hosting Providers
□ ChatGPT
□ Social Media and SMM
 YouTube, WhatsApp, WhatsApp Web, Facebook
□ E-Mail Addresses
 Google Mail, Microsoft Outlook, Apple iCloud Desktop Sharing and Remote Control Team Viewer, AnyDesk
□ Desktop Sharing and Remote Control
 Team Viewer, AnyDesk
□ Website and Blogging
 netlify, Blogger
□ Torrent
 Torrent clients and sites, downloading pirated apps
□ Downloading & Uploading Media
□ Download Devices Drivers
☐ File hosting services and synchronization
 Google Drive, Microsoft OneDrive
□ Online News Papers, TV Channels, News Streaming
☐ FIA Cyber Crime Wing (CCW) and PECA 2016
☐ Google AdSense Vs. Google Ads



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TYPING COURSE OUTLINE – 2 MONTH

 ☐ Introduction to: Typing speed Typing speed units Typing apps 	TECHA
Typing speed	10/10/
 Typing speed units 	C. C.
○ Typing apps	
○ Keyboard and its layout	uts
o Gestures/ Postures	
☐ Typing Master	
 Touch typing course 	
Typing tests	
 Typing games 	
☐ Notepad for typing	1/3
- · · · · · · · · · · · · · · · · · · ·	es //
ATELLITE	WN BRANCH T
☐ Inpage Urdu	WW Dr.
Urdu typing	
☐ Online typing	
 Intro to www.10fastfir 	ngers.com
 Typing for 1 minute 	
Typing competitions	

Multiplayer typing



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FOUNDATION OF ETHICAL HACKING COURSE OUTLINE – 2 MONTH

THEOLY

	Introduction to Ethical Hacking, Penetration Testing & Cybersecurity Types of Hackers Define (threats, vulnerabilities, exploits, payloads, AAA, & mitigation techniques) Differentiate among Network, Internetwork, Intranet, & Extranet Types of Network: PAN, LAN/WLAN, CAN, MAN, & WAN Explain the function of NIC, WNIC, Switch, Access Point, Router, Firewall, MODEM, IPS/IDS Client-Server Model Network Addresses: IP Address, MAC Address, Port Numbers, & Specific Addresses(structure) Before using Internet, you should do Layers of Web CIA Triad Five Phases of ethical hacking Malware and its types Encryption, Decryption, Key, Hashing Ethical Hacking Certifications, Bug Bounty, CTF, FIA/CCW, & PECA 2016
Labs	Set up Safe & Isolated Physical/ Virtual Hacking lab for Hands-on
	Basics of Linux Terminal Emulator & Windows Commands Prompt
	Ensure Anonymity using VPN, TOR, & Proxychains Reconnaissance, Scanning, Gaining Access, Maintaining Access, & Covering Track.
	Social Engineering: Phishing & Baiting Attacks
	Compromising a Systems with Metasploit Framework
	Password & Hash Cracking
	MitM Attack & ARP Poisoning
	Spoofing MAC Address & IP Address
	Packet Sniffing/ Capturing in Network
	Wi-Fi Hacking
	Android Phone Hacking Third-party Apps (Offling): USBDumper, Koylogger, Data Recovery, WinDAR, Reset
	Third-party Apps (Offline): USBDumper, Keylogger, Data Recovery, WinRAR, Reset Windows Password, BitLocker Drive Encryption