



**IT CAMPUS
GURU**

— Dream IT Achieve IT —

MASTERS PROGRAM IN SYSTEM ENGINEERING

(Microsoft Windows Associate,
Linux Admin, Cisco CCNA, Cloud Aws,
Cybersecurity & DevOps)



About Us:

IT Campus Guru is a premier IT training & placement institute in Nagpur, dedicated to empowering young career seekers with the knowledge and skills necessary to excel in today's competitive job market. We offer a range of comprehensive training programs, meticulously designed to provide insights into industry operations and job roles. Our curriculum is crafted to meet the challenges and requirements of modern recruiting sectors, ensuring that our students are well-prepared to face corporate challenges head-on. With a strong emphasis on practical skills and real-world applications, IT Campus Guru is committed to nurturing the next generation of IT professionals.

Mission:

Our mission is to provide high-quality, job-oriented IT training that bridges the gap between education and employment. We aim to create a dynamic learning environment that fosters innovation, critical thinking, and professional growth, ensuring our students are equipped with the skills and confidence needed to succeed in their careers.

Vision:

To be a leading institution in IT education, known for transforming aspiring individuals into skilled professionals who are ready to meet the evolving demands of the global job market.



Why Join IT Campus Guru?

01



100% Job Guarantee:

We offer a 100% job guarantee to our students providing them with assurance & confidence they need to pursue their career goals just adhering to our guarantee terms and policies.

02



Comprehensive Curriculum:

Our courses are designed to cover all aspects of the IT industry, providing students with a deep understanding of various technologies and their applications.

03



Experienced Faculty:

Learn from industry experts with extensive experience and knowledge in their respective fields, ensuring you receive top-notch education and guidance.

04



Practical Training:

We emphasize hands-on training and real-world applications, allowing students to gain practical experience and develop problem-solving skills.

05



Industry-Relevant Skills:

Our programs are tailored to meet the current and future demands of the IT industry, preparing students for a successful career.

06



Career Support:

From resume building to interview preparation, we provide comprehensive career support with our in-house dedicated placement cells.

07



Modern Infrastructure:

Our state-of-the-art facilities and resources provide an optimal learning environment for students to thrive.

08



Community and Networking:

Join a vibrant community of like-minded individuals and build valuable professional networks that will support your career growth.

Microsoft Windows Associate

MODULE-1

Computer Fundamentals & Basics of Power System in a Computer

- ▶ Computer Fundamentals History and Generations of Computer (Gen 1 to 5).
- ▶ Architecture of the Computer.
- ▶ Description of Different parts of a computer.
- ▶ Idea about System Software and Application Software. Operating system concept (Basic knowledge).

Practicals

- ▶ Identification of different Components of a computer and demonstration and uses of them.
- ▶ Different Tools/equipment used for assembling/disassembling a PC.t

MODULE-2

Introduction to SMPS

- ▶ SMPS Features, Functions
- ▶ Types of SMPS
- ▶ Power distribution in SMPS
- ▶ Connecting, Maintenance and Troubleshooting

Practicals

- ▶ A running SMPS demonstration
- ▶ Installation of a SMPS on a cabinet
- ▶ Isolated Power testing by sorting.

MODULE-3

Introduction to Basic Input Output System.

- ▶ Introduction to BIOS/CMOS Setup, POST (Power on Self-Test)
- ▶ Demonstration of BIOS/CMOS Configuration (Date, Time, Enable/Disable Devices).
- ▶ Dual BIOS Feature BIOS/CMOS Setup, Booting Sequence/Boot Order
- ▶ Demonstration of BIOS/CMOS setup, POST in a Computer step by step.
- ▶ Demonstration of different types of configurations and effect of changes in an existing BIOS feature for a system.
- ▶ Implementation of Dual Booting setup preferably in windows with Linux (Ubuntu).

Practicals

- ▶ Demonstration of BIOS/CMOS setup, POST in a Computer step by step.
- ▶ Demonstration of different types of configurations and effect of changes in an existing BIOS feature for a system.
- ▶ Implementation of Dual Booting setup preferably in windows with Linux (Ubuntu).

MODULE-4

Introduction to Operating System

- ▶ Definition and types of Operating Systems. Functions & Features of OS.
- ▶ MS-DOS (Prelims), Windows 8.1, 10, 11, Red Hat 7/Fedora Linux Server, Ubuntu, MAC OS etc.
- ▶ Process of Booting the Operating System.
- ▶ Installation of Windows 8.1, 10, 11 Activation and Automatic Updating procedures.

Practicals

- ▶ Demonstration on Windows Using: Safe Mode, Safe Mode Boot options, Last Known Good Configuration, etc.
- ▶ Demonstrating Windows Diagnostic Tools, System Restore, Creating Restore point, restore using Restore point, etc.
- ▶ Windows Recovery using System Factory Defaults/Recovery tools.
- ▶ Installation of driver for the system

MODULE-5

Computer Management

- ▶ Computer Management, Disk Management, Defragmentation.
- ▶ Services and Applications, Local Users and Groups
- ▶ Advanced System Settings, Device Manager, Task Manager.

Practicals

- ▶ Demonstration on Windows Using: Safe Mode, Safe Mode Boot options, Last Known Good Configuration, etc.
- ▶ Demonstrating Windows Diagnostic Tools, System Restore, Creating Restore point, restore using Restore point, etc.
- ▶ Windows Recovery using System Factory Defaults/Recovery tools.
- ▶ Installation of driver for the system.

MODULE-6

Disk Partitioning

- ▶ Demonstration of Partitioning of Hard Drive/SSD-Primary, Extended, and Logical partitions using Partition Tools in Windows through Disk Manager.

Practicals

- ▶ Demonstration of Partitioning of Hard Drive/SSD-Primary, Extended, and Logical partitions using Partition Command (mkbpart) in Linux.



MODULE-7

Details about Central Processing Unit & Main board

- ▶ Definition of CPU, Architecture, Speed, Types of CPU (ATX and AT technologies) 32/64 Bit.
- ▶ Types process or technologies like Clock speed, Bus speed, Cache memory. Threading technologies, Core technologies, IRQ & DMA Technologies.
- ▶ What is "I" Technology, Core series (i3, i5, i7).
- ▶ To explain about PGA and BGA and LGA Model processors, Pins/Sockets. Definition, Architecture, Compatibility with CPU's, Chipsets and Brands.
- ▶ What is Chipset, what is FSB, what is Bus, CPU Sockets, Interface Ports used to connect different Peripherals.
- ▶ I/O Ports (PS/2, Serial, Parallel, USB, VGA, HDMI, Audio, Ethernet, etc.)
- ▶ Identifying Expansion Slots (PCI, AGP etc.), Power Form Factor.

Practicals

- ▶ Demonstration on Windows Using: Safe Mode, Safe Mode Boot options, Last Known Good Configuration, etc.
- ▶ Demonstrating Windows Diagnostic Tools, System Restore, Creating Restore point, restore using Restore point, etc.
- ▶ Windows Recovery using System Factory Defaults/Recovery tools
- ▶ Installation of driver for the system

MODULE-9

Computer Accessories

Keyboard & Mouse

- ▶ Types of Keyboards
- ▶ Keyboard Interfaces (DIN Type, PS/2, USB, wireless).
- ▶ Keyboard Problems and Troubleshooting.
- ▶ Types of Mouses (Ball Mouse, Optical Mouse, Trackball).
- ▶ Principles of Mouse (Ball Mouse & DSP, Sensor in Optical Mouse). Mouse Interfaces (Serial, PS/2, USB, wireless), Mouse Problems and Troubleshooting)

Monitor

- ▶ Types of Monitors (CRT/LCD/LED), Working Principles of each type
- ▶ Demonstration and Practical on Monitor Installation, Menu Configuration, Adjusting Monitor Settings, Monitor Power Supply types, Possible Problems and Troubleshooting.

Printer

- ▶ Types of Printers (Dot Matrix, Inkjet, Laser, Thermal, All-in-One Printers, etc.).
- ▶ Working Principles of each type, network Printer.
- ▶ Installing a Printer and Configuring Drivers.
- ▶ Installation of Scanner, Device Driver Installation.
- ▶ Scanner Settings, Scanning Documents, Photos in different Formats like JPG, PDF etc.

MODULE-8

Primary and Secondary Memory

- ▶ Introduction to RAM, ROM, Cache Memory, Buffer Memory, Virtual Memory. Speed, Timeline (EDO, NON-EDO, SD, RD, DDR, DDR2, DDR3, DDR4), Hybrid Memory.
- ▶ Comparing and Installing RAM, Memory Module Form Factor, etc.
- ▶ Introduction to HDD& SSD, Types, Functioning of HDD, Functioning of SSD, Dual Usage.
- ▶ Interface Types of HDD & SSD (IDE or PATA, SATA, SCSI, PCI-E, MSATA, M.2), Data storage technique.
- ▶ Tracks, Sectors, Cylinders, Cluster MBR, FAT Area, DIR Area, Zero Track.
- ▶ IDE Jumper settings (Primary/Secondary), (Master/Slave/Cable Select).
- ▶ Installing and Configuring a New HDD/SSD.

Practicals

- ▶ Demonstration on Windows Using: Safe Mode, Safe Mode Boot options, Last Known Good Configuration, etc.
- ▶ Demonstrating Windows Diagnostic Tools, System Restore, Creating Restore point, restore using Restore point, etc.
- ▶ Windows Recovery using System Factory Defaults/Recovery tools
- ▶ Installation of driver for the system.

MODULE-10

Networking Fundamentals

- ▶ Types of networks such as (PAN, LAN, MAN, CAN, WAN).
- ▶ Basic concept of Transmission Types: Simplex, Half duplex and full duplex Mode.
- ▶ Basic concept of Internet, Intranet, extranet.



MODULE-11

Knowledge of Network Topologies, Networking Devices, Transmission Media, sharing of resources, Network Addressing system.

- ▶ Identify different topologies used in networking with their relative advantages and disadvantages.
- ▶ Understanding the knowledge about various types of networking devices and media with their usage.
- ▶ IP addressing, MAC addressing, Install and configure a network and configure IP address static and dynamic, DNS, default gateway.
- ▶ Design, calculate, and apply subnet masks and addresses to fulfil any organization's requirements.
- ▶ Working with installation of Network card, altering MAC address and revealing original MAC, Knowledge of making crossover and straight cable.
- ▶ Introduction to Linux Networking. Configuring IP Address on Linux Systems.
- ▶ Working Principles of each type of Networking protocols such as (DHCP, DNS, FTP, SSH, Telnet).

Practicals

- ▶ Crimping RJ45 Connectors, CAT V/ VI wired Color Matching for Type A and Type B Connection. Hand on practice for communication to windows networking.
- ▶ Data Sharing, Printer Sharing.
- ▶ Remote Desktop Connection using Windows RDC.
- ▶ Creating Shared Folders for each user, Assigning Access Rights and Changing Ownership for Shared Folders using File Server Wizard
- ▶ Internet Configuration using ADSL Router.
- ▶ Hands on practice to configure Router Admin password. Create and configure SSID for secured Wireless connection through a router.

MODULE-13

Introduction of Active Directory

- ▶ Introduction to AD
- ▶ Active Directory Components
- ▶ Logical structure of AD
- ▶ Physical structure of AD

Practicals

- ▶ Deploying DC
- ▶ Managing users & groups
- ▶ Managing OU

MODULE-15

Introduction of DHCP Server

- ▶ Introduction to DHCP
- ▶ DHCP Components and its working
- ▶ Managing and Troubleshooting DHCP

Practicals

- ▶ Deploying DHCP server
- ▶ Configuring and managing DHCP
- ▶ DHCP Failover

MODULE-12

Introduction to windows server 2019

- ▶ Introduction to OS and its types
- ▶ Difference between domain and workgroup mode
- ▶ Comparison of Desktop v/s server
- ▶ Min hardware Requirement, Editions, Types of Installation

Practicals

- ▶ Introduction to OS and its types
- ▶ Difference between domain and workgroup mode
- ▶ Comparison of Desktop v/s server
- ▶ Min hardware Requirement, Editions, Types of Installation

MODULE-14

Introduction of File Server

- ▶ Introduction to File Server
- ▶ Types of Permissions

Practicals

- ▶ Share permission

MODULE-16

Introduction of DNS Server

- ▶ Introduction to DNS
- ▶ DNS Hierarchy
- ▶ DNS terminologies

Practicals

- ▶ Implementing DNS server
- ▶ Configuring zones in DNS
- ▶ Configuring Name resolution between DNS zones

MODULE-17

Introduction of Group policy

- ▶ Group Policy scope and Group policy processing.
- ▶ Implementing administrative templates.

Practicals

- ▶ Configure folder redirection.
- ▶ Configure software installation and Folder redirection.
- ▶ Software installation and security policy.
- ▶ Configure software restriction policy.

MODULE-19

Operation master Role

Introduction to

- ▶ Types of FSMO

Practicals

- ▶ FSMO Configuring
- ▶ Transferring FSMO roles

MODULE-21

Windows server backup

- ▶ Configure windows backup and restore

MODULE-18

Hyper-V

- ▶ 18.1. Overview of Hyper-V
- ▶ Hyper-V Networking
- ▶ Managing Hyper-V

Practicals

- ▶ 18.1. Installing Hyper-V
- ▶ Configure storage on Hyper-V host
- ▶ Configure networking on Hyper-V host
- ▶ Managing Hyper-V machines

MODULE-20

Introduction of ADC, CDC, RODC

- ▶ Introduction to ADC
- ▶ Introduction to CDC
- ▶ Introduction to RODC
- ▶ Child relationship

Practicals

- ▶ Configure ADC
- ▶ Configuring CDC
- ▶ Configure RODC

MODULE-22

Virtual Private Network

- ▶ Introduction to VPN
- ▶ VPN protocols

Practicals

- ▶ Configuring VPN



Career Opportunities

Unlock a world of exciting career opportunities, with the Knowledge and skills gained from our and achieve your professional aspirations.

WINDOWS ADMIN CAREER PATH



Linux Admin

MODULE-1

Basics

- Introduction to Linux
- Essential & Advanced Linux Commands
- Installation in VMWare Workstation
- Performance Monitoring

MODULE-3

Understand & Use Essential Tools

- Use Grep & Regular Expression to Analyze Text
- Access Remote Systems Using SSH
- Archive, Compress, Unpack & Uncompress files using tar, Star, Gzip & Bzip2
- Create, Delete, Copy & Move files & Directories
- Create Hard & Soft Links
- List, Set & Change Standard UGO/RWX Permissions.

MODULE-5

Configure LVM

- List, Create, Delete Partitions on MBR & GPT disks
- Create & Remove Physical Volumes
- Assign Physical Volumes to Volume groups
- Configure Systems to mount file systems at Boot by Universally unique ID (UUID) or Label
- Add new partitions & Logical Volumes, & Swap to a system Non- Destructively.

MODULE-7

Deploy, Configure & Maintain Systems

- Schedule tasks using at & Cron
- Start & Stop Services & Configure services to start automatically at boot
- Configure Systems to boot into a specific target automatically
- Configure time service clients
- Install & update software packages from Centos Network, a remote repository, or from the local file system
- Modify the system Bootloader

MODULE-2

Manage Users & Groups

- Create, Delete & Modify Local User Accounts
- Change Passwords & Adjust Passwords Aging for local User Accounts
- Create, Delete & Modify Local Groups & Group Membership
- Configure Super User Access

MODULE-4

Operate Running System

- Boot, Reboot & Shut down a System Normally
- Boot Systems into Different Targets Manually
- Interrupt the Boot Process in Order to Gain Access to a System
- Identify CPU/Memory Intensive Process & Kill Process
- Adjust Process Scheduling
- Manage Tuning Profiles
- Locate & Interpret System Log Files & Journals
- Preserve System Journals
- Start, Stop & Check the Status of Network Services
- Securely Transfer files between systems

MODULE-6

Create & Configure File Systems

- Create, Mount, Unmount & Use VFAT, EXT4 & XFS file systems.
- Mount & Unmount Network file system using NFS
- Configure Autofs
- Extend existing logical volumes
- Create & Configure set-GID Directories
- Diagnose & Correct file permission problems

MODULE-8

Basic Networking

- Configure IPv4 & IPv6 addresses
- Configure hostname resolution
- Configure Network Services to Start Automatically at Boot.
- Restrict Network Access using firewall-cmd/firewall
- Understanding the concept of Network in Linux & its practical Implementation.

MODULE-9

Manage Security

- Configure firewall settings using firewall-cmd/firewalls
- Manage default file permissions
- Configure Key-based authentication for SSH
- Set enforcing & permissive modes for SELinux
- List & Identify SELinux file & process context
- Restore Default file contexts
- Manage SELinux Port Labels
- Use Boolean settings to modify System SELinux settings
- Diagnose & address routine SELinux Policy violations

MODULE-11

Firewall / IP Tables

- What's a Firewall?
- What a Firewall is not?
- So What's a Packet Filter?
- Packet Processing in IP Tables
- Checking whether IP Tables is default installed on our server
- Allow/Enable & Disallow/ Disable ping request

MODULE-10

NFS

- What is NFS
- Benefits of NFS
- NFS Services
- Import files for NFS Configuration
- Setup & Configure NFS Mounts on Linux Server
- Setting Up the NFS Server
- Setting Up the NFS Client
- NFS Options

MODULE-12

RAID

- Theory
- All types of RAID configuration & Practicals

MODULE-13

DNS

- History
- Theory
- Name caching server
- Linux & Bind Server

MODULE-14

SAMBA

- What is Samba?
- Uses of Samba?
- Samba Requirements
- Installing Samba Server Packages
- How to configure Samba Server
- How to start the Samba Service?
- How to add a user to Samba?
- How to verify the Samba Share Access



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LINUX CAREER PATH



Cloud Aws Program Curriculum

MODULE-1

Basics

- ▶ Course Introduction
- ▶ Course Overview
- ▶ Basic Networking
- ▶ AWS Overview
- ▶ History & Evolution of AWS Knowledge Check
- ▶ Overview of AWS Products & Services

MODULE-3

Identity Access Management

- ▶ IAM Users, Groups, & Roles Knowledge check
- ▶ Managing Root Account
- ▶ Managing MFA
- ▶ Creating Custom Policies
- ▶ Configuring IAM roles

MODULE-5

Amazon Simple Storage

- ▶ Creating Buckets
- ▶ Managing Permissions of a Bucket
- ▶ Version Control & Lifecycle
- ▶ Understand and Perform Versioning
- ▶ Understand
- ▶ User Profile Management

MODULE-7

DNS

- ▶ Amazon Route 53
- ▶ Route 53
- ▶ Understand the DNS Architecture
- ▶ Register a Domain Name
- ▶ Managing Records
- ▶ Configure Routing Policies
- ▶ Weighted Routing Policies
- ▶ Latency Routing Policies

MODULE-2

Amazon Virtual Private Cloud

- ▶ Amazon VPC Subnets
- ▶ Networking Knowledge check
- ▶ Security Groups & Network ACLs Check
- ▶ Components of VPC
- ▶ Build a custom VPC
- ▶ Perform NAT
- ▶ Perform VCL
- ▶ Perform VPC Peering
- ▶ VPN
- ▶ Direct Connect

MODULE-4

Elastic Compute Cloud

- ▶ Understanding Instances
- ▶ Volumes, key pairs, Security, Groups, Elastic IP, AMI's, Instance Types
- ▶ Amazon EC2 Overview
- ▶ Amazon Machine Languages
- ▶ Launch & Connect to an EC2 Linux instance
- ▶ Overview of Amazon EBS
- ▶ EC2 Pricing
- ▶ Elastic Load Balancing
- ▶ Auto Scaling
- ▶ Managing Snapshots
- ▶ Rules in Security Groups
- ▶ HTTP Elastic Load Balancer
- ▶ Creating & Deploying Image

MODULE-6

CDN

- ▶ Life cycle Management
- ▶ Cloud front & CDN Knowledge Check Security & Encryption
- ▶ Amazon Import - Export Snowball
- ▶ Uploading Files
- ▶ Understanding & Perform Cross- region replication

MODULE-8

Databases

- ▶ Database Overview
- ▶ Amazon Relational Database Service
- ▶ AMI Databases Key Takeaways
- ▶ Amazon DynamoDB
- ▶ Amazon Redshift Elasticache
- ▶ Amazon Database Migration Services
- ▶ SQL VS. NO-SQL engines
- ▶ Deep dive into RDS
- ▶ Create a RDS SQL Database Instance
- ▶ Create a cluster
- ▶ Access a SQL server from EC2 Instance
- ▶ Create a Database, Backup & Restore

MODULE-9

EFS & Fsx

- ▶ Change Properties of Cluster & Instances
- ▶ Deepdive into EFS & FSx
- ▶ Deepdive into DynamoDB

MODULE-11

Recovery

- ▶ Disaster Recovery
- ▶ Overview & Products for Disaster Recovery

MODULE-13

Server Solutions

- ▶ Server less Compute
- ▶ Understand Various Server less Compute Solutions
- ▶ Create Lambda function

MODULE-15

Cloud Watch

- ▶ Monitoring Services
- ▶ Understanding & Configuring SNS
- ▶ Monitoring Resources Using Cloud Watch
- ▶ Automating Resource Deployment Using Cloud Formation

MODULE-10

Security

- ▶ Security Practices for Optimum Cloud Deployment
- ▶ AWS Responsibilities & Security Attributes
- ▶ AWS Cloud Formation & Design Patterns

MODULE-12

Redshift

- ▶ Deep dive into Redshift
- ▶ Create a Redshift Cluster
- ▶ Deploy Database Instance in Cluster
- ▶ Create and Manage PostgreSQL Database
- ▶ Resize the Cluster
- ▶ Perform Backup & Restore

MODULE-14

Server Solutions

- ▶ Host Application Using Beanstalk
- ▶ Create Containers in ECS

MODULE-16

Troubleshooting

- ▶ Process of Troubleshooting
- ▶ Architect on AWS & Troubleshooting



CCNA (200-301) Firewall Program Curriculum

MODULE-1

Network Fundamentals

- ▶ What is networking.
- ▶ Types of area networks - LAN, MAN and WAN
- ▶ OSI Layers and TCP/IP
- ▶ TCP/UDP
- ▶ Different ports
- ▶ Ethernet cable Routers and switches
- ▶ Function of Switches and Router
- ▶ Configure and verify Ipv4 address and its classes
- ▶ IDS and IPS
- ▶ Types of communication Optical fiber (single mode & multimode)
- ▶ MAC address
- ▶ VPN
- ▶ VLAN
- ▶ Firewalls

MODULE-2

Network Access

- ▶ Configure and Verify VLANS spanning multiple switches
- ▶ Access Ports
- ▶ Connectivity
- ▶ Configure and verify interswitch connectivity
- ▶ Configure and verify layer 2
- ▶ Root port, root bridge and other port names
- ▶ Compare Cisco Wireless Architectures and AP modes
- ▶ Describe Physical Infrastructure Connections of WLAN Components
- ▶ Describe AP and WLC Management Access Connections
- ▶ Configure the Components of Wireless LAN Access for Client Connectivity

MODULE-3

IP Connectivity

- ▶ Interpret the components of routing table
- ▶ Routing protocol code
- ▶ Network Mask
- ▶ Next Hop
- ▶ Administrative Distance
- ▶ Metric
- ▶ Gateway of Last Resort
- ▶ Determine how a router makes a forwarding Decision by Default.
- ▶ Longest Match
- ▶ Routing Protocol Metric
- ▶ Configure and Verify IPv4 and IPv6 Static Routing
- ▶ Default Route
- ▶ Network Route
- ▶ Host Route
- ▶ Floating Static

MODULE-4

IP Services

- ▶ Introduction to virtualization
- ▶ Various types of virtualization
- ▶ Introduction to vSphere & Cloud Computing
- ▶ What is Cloud Computing (IaaS, SaaS, PaaS)
- ▶ Lab Setup
- ▶ Describe the use of Syslog Features including facilities and levels
- ▶ Configure and Verify DHCP Client and Relay
- ▶ Explain the forwarding per-hop behaviour (PHB) for QoS such as Classification, Marking, Queuing, Congestion, Policing, Shaping
- ▶ Configure network devices for remote access using SSH
- ▶ Describe the Capabilities and Function of TFTP/FTP in the Network.



MODULE-5

Security

- Define Key Security Concepts(Threats, Vulnerabilities, Exploits & Mitigation)
- Describe Security Program Elements (User Awareness, Training & Physical Access Control)
- Configure Device Access Control Using Local Passwords
- Describe Security Password Policies Elements such as Management, Complexity & Password Alternatives (Multifactor Authentication, Certificates & biometrics)
- Describe Remote Access & Site-to-Site VPNs
- Configure & Verify Access Control Lists.
- Configure Layer 2 security features (DHCP snooping, Dynamic ARP inspection & port)
- Differentiate authentication authorization & accounting concepts.
- Describe Wireless Security Protocols (WPA, WPA2 & WPA3)

MODULE-6

Firewalls

- Placement of Firewall
- Internal Threats
- Security Terminologies
- Introduction to Palo Alto
- Next Generation Firewall (NGFW) Concepts
- Initial Management Access Concepts
- Configuring Management Interface, Gateway, and DNS
- Updating the Firewall Software 5. Updating the Firewall Software



Career Opportunities

Unlock a world of exciting career opportunities, with the Knowledge and skills gained from our and achieve your professional aspirations.

CCNA FIREWALL PROGRAM CAREER PATH



Cyber Security Program Curriculum

MODULE-1

Preparatory Sessions - Linux

- ▶ Introduction to Linux
- ▶ Linux Basics
- ▶ Hands-on Sessions And Assignments for Practice

MODULE-2

Certified Ethical Hacking by EC Council

- ▶ Introduction to Ethical Hacking
- ▶ Footprinting and Reconnaissance
- ▶ Scanning Networks.
- ▶ Enumeration
- ▶ Vulnerability Analysis
- ▶ System Hacking
- ▶ Malware Threats
- ▶ Sniffing
- ▶ Social Engineering
- ▶ Denial-of-Service
- ▶ Session Hijacking
- ▶ Evading IDS, Firewalls, and Honeypots
- ▶ Hacking Web Servers
- ▶ Hacking Web Applications
- ▶ SQL Injection
- ▶ Hacking Wireless Networks
- ▶ Hacking Mobile Platforms
- ▶ IoT Hacking
- ▶ Cloud Computing
- ▶ Cryptography

MODULE-3

Information Systems Security

- ▶ Security and Risk Management
- ▶ Asset Security
- ▶ Security Architecture and Engineering
- ▶ Communication and Network Security
- ▶ Identity and Access Management (IAM)
- ▶ Security Assessment and Testing
- ▶ Security Operations
- ▶ Software Development Security

MODULE-4

Secure Applications, Network & Devices

- ▶ Risk Management
- ▶ Cryptography
- ▶ Identity and Access Management
- ▶ Tools of the Trade
- ▶ Securing Individual Systems
- ▶ The Basic LAN
- ▶ Beyond the Basic LAN
- ▶ Secure Protocols
- ▶ Testing Your Infrastructure
- ▶ Dealing with Incidents

MODULE-5

Cloud Security Master Classes

- ▶ Infrastructure Security: Network-level security, Host level security, Application-level security
- ▶ Data security and Storage: Data privacy and security Issues, Jurisdictional issues raised by Data location
- ▶ Access Control
- ▶ Trust, Reputation, Risk
- ▶ Authentication in cloud computing, Client access in cloud, Cloud contracting Model, Commercial and business considerations

MODULE-6

Capstone Project Job Readiness

- ▶ Job Search Strategy
- ▶ Resume Building
- ▶ LinkedIn Profile Creation
- ▶ Interview Preparation Sessions by Industry Experts
- ▶ Mock Interviews
- ▶ Placement opportunities with 400+ hiring partners upon clearing the Placement Readiness Test.

Mastering AWS and DevOps

MODULE-1

0 Weeks

Python Fundamentals

- ▶ Python Refresher/Fundamentals for Cloud and DevOps

MODULE-3

16 Weeks

AWS Fundamentals

- ▶ Overview of Amazon Web Services (AWS)
- ▶ Setting up an AWS account
- ▶ Overview of AWS services (EC2, S3, RDS, VPC, IAM)

MODULE-5

16 Weeks

DevOps Basics and Introduction to Docker

- ▶ Understanding DevOps principles and practices
- ▶ Version Control Systems (e.g., Git)
- ▶ Introduction to Docker and containerization
- ▶ Docker architecture and components
- ▶ Implementing Docker, Docker for networking and storage
- ▶ Docker Compose for multi-container applications

MODULE-6

16 Weeks

Infrastructure as Code (IaC) and Terraform

- ▶ Introduction to Infrastructure as Code (IaC) with Terraform
- ▶ Terraform syntax and configuration files
- ▶ Provisioning and managing infrastructure resources with Terraform
- ▶ Terraform state management and workspaces
- ▶ Best practices for using Terraform in production environments

MODULE-8

16 Weeks

Container Orchestration using Kubernetes

- ▶ Introduction to Kubernetes and container orchestration
- ▶ Kubernetes architecture and components (Master Node, Worker Node, Pods, Services)
- ▶ Deploying applications on Kubernetes clusters
- ▶ Managing Kubernetes resources with kubectl

MODULE-2

16 Weeks

Fundamentals of Cloud Computing

- ▶ Overview of cloud computing concepts
- ▶ Types of cloud services: IaaS, PaaS, SaaS
- ▶ Advantages and disadvantages of cloud computing
- ▶ Types of cloud services: IaaS, PaaS, SaaS and basic cloud security
- ▶ Public, private, and hybrid cloud
- ▶ Community cloud
- ▶ Multi-cloud and inter-cloud strategies

MODULE-4

16 Weeks

AWS Databases

- ▶ EC2 (Elastic Compute Cloud) for virtual servers
- ▶ S3 (Simple Storage Service) for object storage
- ▶ EBS (Elastic Block Store) for block storage
- ▶ RDS (Relational Database Services)

MODULE-6

16 Weeks

CI/CD and Jenkins

- ▶ Continuous Integration (CI) concepts and practices
- ▶ Introduction to Jenkins and its features
- ▶ Setting up Jenkins pipelines for CI/CD
- ▶ Integrating Jenkins with version control systems (e.g., Git)
- ▶ Jenkins plugins for enhancing CI/CD pipelines
- ▶ Hands-on setup of CI/CD pipelines using AWS CodeBuild

MODULE-7

16 Weeks

Configuration Management and Ansible

- ▶ Introduction to Ansible for configuration management and automation
- ▶ Ansible architecture and components (Control Node, Managed Nodes)
- ▶ Ansible playbooks and YAML syntax
- ▶ Managing system configurations with Ansible roles and tasks
- ▶ Ansible Tower for centralized management and orchestration

MODULE-9

16 Weeks

Monitoring and Logging in Kubernetes

- ▶ Advanced Kubernetes concepts (Deployments, StatefulSets, DaemonSets)
- ▶ Kubernetes scaling and auto-scaling
- ▶ Kubernetes security best practices
- ▶ Monitoring and logging in Kubernetes clusters
- ▶ Kubernetes cluster administration and maintenance

Mastering AWS and DevOps

MODULE-10 16 Weeks

CI/CD on AWS

- ▶ Container orchestration with Amazon ECS (Elastic Container Service)
- ▶ Docker Swarm on AWS

MODULE-11 16 Weeks

Infrastructure asCode (IaC) on

- ▶ Automating infrastructure deployment with AWS CloudFormation
- ▶ Using AWS OpsWorks for configuration management
- ▶ CloudWatch

MODULE-12 16 Weeks

AWS Course Project

- ▶ Assignment Submission

Mastering Microsoft Azure

MODULE-1 6 Weeks

Introduction to Azure

- ▶ Overview of Microsoft Azure
- ▶ Setting up an Azure account
- ▶ Overview of Azure services (Virtual Machines, Blob Storage, Azure SQL Database)

MODULE-2 6 Weeks

Azure Compute Services, Azure Network and Security

- ▶ Azure Virtual Machines
- ▶ Azure App Service
- ▶ Azure Functions
- ▶ Azure Virtual Network
- ▶ Azure Security Center
- ▶ Azure Active Directory

MODULE-3 6 Weeks

CI/CD on Azure

- ▶ Implementing CI/CD pipelines with Azure DevOps
- ▶ Integrating Azure Repos and Azure Pipelines
- ▶ Container orchestration with Azure Kubernetes Service (AKS)

MODULE-4 6 Weeks

Infrastructure as Code (IaC) on Azure

- ▶ Managing containers with Azure Container Instances (ACI)
- ▶ Deploying infrastructure with Azure Resource Manager (ARM) templates
- ▶ Using Azure Automation for configuration management

MODULE-5 6 Weeks

Course Project

- ▶ Assignment Submission

Mastering Google Cloud Platform

MODULE-1

5 Weeks

Introduction to Google Cloud Platform

- ▶ Overview of Google Cloud Platform (GCP)
- ▶ Setting up a GCP account
- ▶ Overview of GCP services (Compute Engine, Cloud Storage, Cloud SQL)

MODULE-3

5 Weeks

CI/CD on Google Cloud Platform

- ▶ Setting up CI/CD pipelines with Google Cloud Build
- ▶ Integrating with Google Cloud Source Repositories
- ▶ Container orchestration with Google Kubernetes Engine (GKE)

MODULE-5

5 Weeks

Course Project

- ▶ Assignment Submission

MODULE-2

5 Weeks

Google Cloud Platform Compute Services, Google Cloud Platform Network and Security

- ▶ Google Compute Engine for virtual machines Google Cloud Storage for object storage Google Cloud SQL for managed databases
- ▶ Google Virtual Private Cloud (VPC)
- ▶ Google Cloud Identity and Access Management (IAM)
- ▶ Google Cloud Security Scanner

MODULE-4

5 Weeks

Infrastructure as Code (IaC) on Google Cloud Platform

- ▶ Managing containers with Google Kubernetes Engine (GKE)
- ▶ Infrastructure provisioning using Deployment Manager
- ▶ Using Puppet for configuration management on GCP

Advanced DevOps

MODULE-1

2 Weeks

DevSecOps

- ▶ Introduction to DevSecOps principles and practices
- ▶ Integrating security into the DevOps pipeline
- ▶ Security automation and tooling
- ▶ Code analysis and vulnerability scanning
- ▶ Container security best practices
- ▶ Secrets management and encryption
- ▶ Compliance as code
- ▶ Incident response and remediation in DevOps workflows

MODULE-2

2 Weeks

Advanced DevOps and SynOps

- ▶ Implement the DevOps pipeline for an advanced use case
- ▶ Introduction to SynOps methodology and principles
- ▶ Implementing SynOps for optimizing operational processes
- ▶ Case studies and real-world examples of SynOps implementations
- ▶ Challenges and considerations in adopting SynOps approach

Become a 10x Cloud and DevOps Engineer

MODULE-1

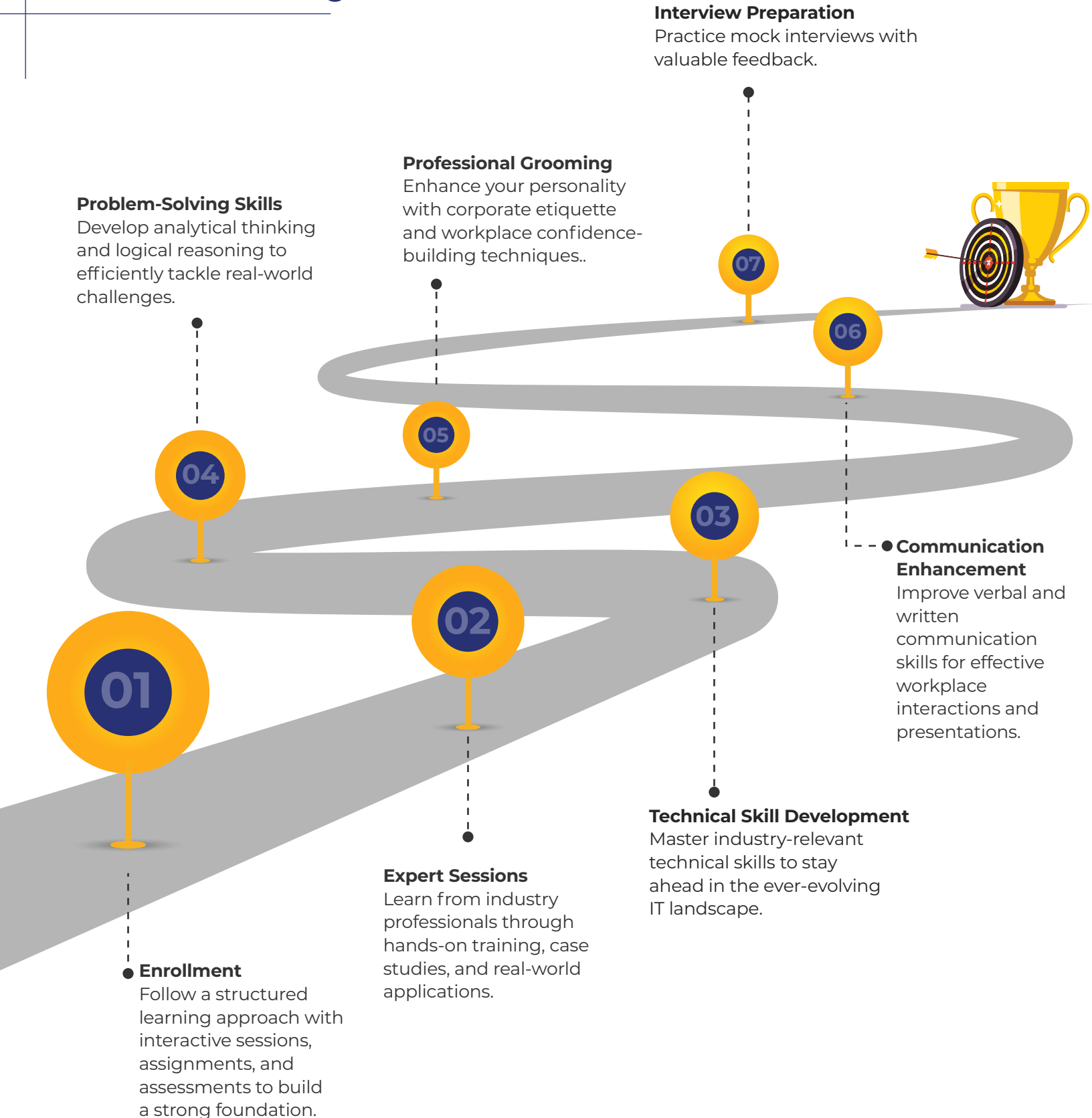
2 Weeks

AI Tools for Cloud and DevOps

- Understand how GenAI is impacting Cloud and Cloud-based services and functions
- Understand how GenAI is impacting DevOps using tools like Harness, APMs, CodeGuru, Snyk and more
- Case studies and real-world examples of AI in DevOps implementations
- Implement a small practice project on DevOps



Start Your Dream Job Journey

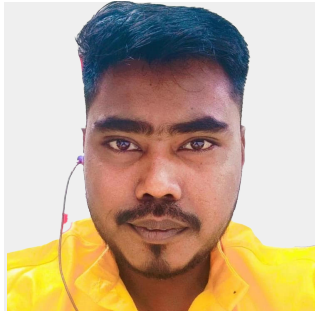


Rocket Your Career with IT Campus Placement

We are committed to bridging the gap between education and employment by providing comprehensive IT training and dedicated placement services. Our programs are designed to equip students with the skills demanded by today's job market, ensuring they are job-ready from day one. We partner with top companies to offer placement opportunities that align with our students' career aspirations, guiding them through every step of the job search process, from resume building to interview preparation. With a strong focus on results, IT Campus Guru ensures that our graduates step confidently into their IT careers.



Our Placements



Mangesh Golait
System Administrator



Isha
System Engineer



Ashutosh Binjave
Data Analyst



Saif Malik
System Engineer



Roshani
Desktop Engineer



Siddhart Gajbiye
AWS



Ameen Sheikh
System Engineer



Shraddha
System Engineer



Pavanraj Nikam
Window Admin



Aman
IT Associate



Avinash Bahekar
System Engineer



Aamir Rajput
System Engineer

Students Feedback



AMAN KUMAR

Course: Masters in System Engineering |
Company: MNC | Education: BBA | Passout year: 2020

Choosing IT Campus Guru has been one of the most rewarding decisions for my career. The institute's well-structured courses, expert mentorship, and practical, hands-on training have equipped me with the technical skills and confidence necessary to thrive in the IT industry. What sets IT Campus Guru apart is their 100% job placement guarantee, which isn't just a promise-it's a commitment they deliver on through outstanding support and guidance. If you're searching for an institute that genuinely prioritizes your growth and success, I can't recommend IT Campus Guru enough!



SAIF MALIK

Course: Masters in System Engineering | Company: MNC
Education: BBA | Passout year:2016

"IT Campus Guru is an excellent choice for anyone seeking to enter the IT field, especially those with academic gaps. The institute offers a supportive learning environment and a 100% job placement guarantee. While your dedication and hard work are essential, the management and ITCC teams will provide you with all the necessary resources and guidance to help you achieve your career goals."



AMEEN SHEIKH

Course: Masters in System Engineering | Company: MNC
Education: BCA | Passout year: 2012

Hi, I'm Ameen Sheikh, a 2012 BCA graduate currently pursuing my Master's in System Engineering. Joining IT Campus Guru has been one of the best decisions of my career. The institute's structured courses, expert mentorship, and hands-on training have provided me with the technical expertise and confidence needed to excel in the IT industry. The 100% job placement guarantee offered by IT Campus Guru is not just a promise but a commitment they fulfill with exceptional support and guidance. If you're looking for an institute that truly invests in your growth and success, I highly recommend IT Campus Guru!



SIDDHARTH GAJBIYE

Course: AWS (Working professionals batch)
Company: MNC | Education: BBA | Passout year: 2014

"IT Campus Guru provides a supportive learning environment and a 100% Job placement guarantee, making it an excellent choice for anyone seeking to enter the IT field, especially those with academic gaps. While your dedication and hard work are essential, the management and ITCC teams will provide you with all the necessary resources and guidance to help you achieve your career goals and instill confidence in your abilities."



GAURAV SHENDE

Course: Masters in System Engineering
Company: MNC | Education: BBA | Passout year:2017

"IT Campus Guru is an excellent choice for anyone seeking to enter the IT field, especially those with academic gaps. The institute offers a supportive learning environment and a 100% job placement guarantee. While your dedication and hard work are essential, the management and ITCC teams will provide you with all the necessary resources and guidance to help you achieve your career goals."



ROSHANI BABAR

Course: Masters in System Engineering
Company: MNC | Education: MBA
Passout year: 2016 (Started Career after Gap Of 8 years)

"I am incredibly grateful for the opportunity to learn at IT Campus Guru. The Master's program exceeded my expectations. The trainers were not only highly knowledgeable but also incredibly supportive, always willing to address my questions and provide valuable guidance. Their focus on practical learning, coupled with their mentorship, has equipped me with the skills and confidence to excel in my IT career. I highly recommend IT Campus Guru to anyone seeking to embark on a successful journey in the IT industry."

IT CAMPUS GURU

— Dream IT Achieve IT —



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