**INDIVIDUAL COURSE DETAILS**

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| **A.** Name of the Institute | UTL Technologies Limited |
| **B.** Name / Title of the Course | Certificate Course in Advanced Networking (A+, N+, CCNA and MCSE Latest Version) |
| **C.** Proposed dates and duration  of the Course in Weeks / Months | **Batch 01: From:** 28-01-2019 To: 23-03-2019**Duration:** 8 Weeks |
| **D**. Eligibility criteria for participants **I.**  Educational | Graduates / Engineers / Diploma Holders with prior Knowledge in Computer Networks |
|  **II.**  Work Experience | Exposure to Networking Fundamentals and Computer Networks is desirable  |
|  **III.** Age Limit | Energetic professionals with a zeal and enthusiasm to learn and implement technologies |
|  **IV**. Target group (Level of participants and target ministry/department etc. may be identified) | Officials from IT Departments of all Ministries, Govt. Departments, Banks, Telecom Companies, Universities, NGOs, Colleges, ICT Organizations etc. |
| **E.** Aim, Objectives of the Course | **Aim, Objective of the course:** This course aims at preparing participants to effectively manage, install and troubleshoot PC and Hardware Issues, install configure, manage, upgrade, migrate and troubleshoot Windows Server 2016 and Cisco based devices & networks.This course also helps the participants to prepare for A+, N+, MCSE 2016 and CCNA Certification Exams. |
| **F.** Course Contents  *(please attached detailed course profile)* | **Basic understanding of IT Hardware and Network**Hardware Basics, PC Functions and components, Tools and Equipment’s, System Configuration, BIOS, CMOS Settings, Installation Upgrading and Troubleshooting, Power Supplies, Expansion Bus, Hard Drives, Floppy Drives, Printers Motherboards and Components Safety and Preventive Measures. Networking Essentials, LAN, WAN, Protocols, ISO Model, IP Addressing, Internet, Intranet, Network Cables etc.,**Microsoft Certified Solutions Expert (MCSE -2016) Track**:**Installation, Storage, and Compute with Windows Server 2016 (Exam 70-740): -** Installing, upgrading, and migrating servers and workloads, Configuring local storage, Implementing enterprise storage solutions, Implementing Storage Spaces and Data Deduplication, Installing and configuring Hyper-V and virtual machines, Deploying and managing Windows and Hyper-V containers, Overview of high availability and disaster recovery, Implementing failover clustering, Implementing failover clustering with Windows Server 2016 Hyper-V, Implementing Network Load Balancing, Creating and managing deployment images, Managing, monitoring, and maintaining virtual machine installations.**Networking with Windows Server 2016 (Exam 70-741):** Planning and implementing an IPv4 network, Implementing DHCP, Implementing IPv6, Implementing DNS, Implementing and managing IPAM, Remote access in Windows Server 2016, Implementing Direct Access, Implementing VPNs, implementing networking for branch offices, configuring advanced networking features, Implementing Software Defined Networking.**Identity with Windows Server 2016 (Exam 70-742): -** Installing and configuring domain controllers, Managing objects in AD DS, Advanced AD DS infrastructure management, Implementing and administering AD DS sites and replication, Implementing Group Policy, Managing user settings with Group Policy, Securing Active Directory Domain Services, Deploying and managing AD CS, Deploying and managing certificates, Implementing and administering AD FS, Implementing and administering AD RMS, Implementing AD DS synchronization with Microsoft Azure AD Monitoring, managing, and recovering AD DS.**Cisco Certified Network Associate (CCNA)Track:**Internetworking, Internet Protocols, IP Sub netting and Variable Length Subnet Masks, Introduction to the Cisco IOS, IP Routing, EIGRP and OSPF, Layer2 Switching, Virtual LANs, managing a Cisco Inter-network, Managing Traffic with Access Lists, Wide Area Networking Protocols. |
| **G.** Mode of evaluation of performance  of the ITEC participant | * Formative assessment on a Weekly / Topic wise, Summative at the end of the course
* Presentations by the participants on a weekly / fortnightly basis.
* LAB experiments and scenarios to analyze the participants practical knowledge
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