

# Tumkur University

## Skill Enhancement Course

### Networking & Storage

Duration: 45 Hours

Sr. No.	Module	Key Learning Outcomes
1	<b>Hardware Essentials</b>  <b>Theory Duration</b> (hh:mm) 2:00  <b>Practical Duration</b> (hh:mm) 5:00	<ul style="list-style-type: none"><li>• Understanding the different component of computer, Assembly of system, Troubleshooting of the system</li><li>• To understand layout, Components and form factors of mother board.</li><li>• To understand the form factors , slot types and different memory types</li><li>• To identify the types of Storage.</li><li>• To Recognize the methods of storage and different hardware components used storage.</li><li>• To identify the types of hardware components in the computer and differentiate it.</li><li>• Installation of Operating System, Drivers Required, Software</li><li>• Recognize of the component of computer, troubleshooting</li><li>• Recognize of the installing and configuring of operating system and it drives.</li></ul>
2	<b>Network Essentials</b>  <b>Theory Duration</b> (hh:mm) 2:00  <b>Practical Duration</b> (hh:mm) 5:00	<ul style="list-style-type: none"><li>• To understand the networking, OSI Concepts Recognize the Network technologies.</li><li>• To understand the types of application functionality</li><li>• To understand the colour coding for the Ethernet cable to be crimping. Recognize network adaptor configuration</li><li>• Cisco Router Internal Hardware Basics, Router Boot Sequence, Configuring IP address on Serial and Fast Ethernet</li><li>• Interfaces, Configuring Console, VTY lines Passwords</li><li>• Recognize the network designed structure.</li><li>• To understand the different configuration methods of device</li></ul>
3	<b>Windows Server Administration</b>  <b>Theory Duration</b> (hh:mm) 3:00  <b>Practical Duration</b> (hh:mm) 4:00	<ul style="list-style-type: none"><li>• To understand Directory services and different functional levels</li><li>• To understand methods of installing, configuring Directory services.</li><li>• To understand the methods of creation of User Accounts, Groups Accounts, Computer Accounts , Delegating Administration</li><li>• To understand the methods of disaster recovery and backup.</li><li>• Recognize the method of implementing secure domain</li><li>• Recognize the method of administrating and creation of user, maintaining group policies</li></ul>
4	<b>Linux Server</b>  <b>Theory Duration</b> (hh:mm) 3:00  <b>Practical Duration</b> (hh:mm)	<ul style="list-style-type: none"><li>• Recognize the Linux features, basic commands</li><li>• To understand the methods of installing, configuring server and services</li><li>• To understand the method of fault analysis, file stem corruption.</li><li>• To understand method of installing, configuring network adaptor.</li><li>• To understand method of basic services, managing of storage.</li></ul>

	4:00	
5	<b>IT Security</b> <b>Theory Duration</b> (hh:mm) 3:00 <b>Practical Duration</b> (hh:mm) 6:00	<ul style="list-style-type: none"> <li>• To understand the method of installing, configuring , outlook and concepts of anti-virus.</li> <li>• To understand the methods of identifying types and indication of virus, worms, Trojan</li> <li>• To understand the compatibility issues and common errors. Recognize basic security risks</li> <li>• To understand methods of system vulnerability and fixing them.</li> <li>• To understand methods of measure to prevent them.</li> </ul>
6	<b>Concepts of ITIL</b> <b>Theory Duration</b> (hh:mm) 3:00 <b>Practical Duration</b> (hh:mm) 5:00	<ul style="list-style-type: none"> <li>• To understand the method monitoring, measuring and reporting</li> <li>• To understand the Method of CSF,KPIs and Activity.</li> <li>• To understand the methods of SLA, timeliness, response and resolution data</li> <li>• To understand the problem management process flow, Determination resolution</li> <li>• To Understand the methods Problem management.</li> <li>• To Understand the methods tracking report and control measures</li> </ul>