Short Term Courses – NIELIT Delhi Centre

CCNA Routing and Switching – ICND1

Objective of the Course:
This course is designed to impart knowledge about basic of Computer Networks, various protocols used in Communication, Managing and configuring Cisco Switches and Routers

Learning Outcomes:
After completion of the course the student will be able to manage Network for a small Organization.

Duration of the Course 80 Hrs.

Minimum Eligibility Criteria and Prerequisite, if any:
Basic Knowledge of Computer (Prior Knowledge of Networking not essential)

Outline of Course

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<th>S. No.</th>
<th>Topic</th>
<th>Hours</th>
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<td>1.</td>
<td>Introduction to Networks&lt;br&gt;Network Communication and Protocols, OSI and TCP/IP, Working of each layer and Protocols used, Network Operating System, Accessing Cisco devices, Basic Device Hardening, IP addressing, Subnetting</td>
<td>30 hrs</td>
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<td>2.</td>
<td>Routing and Switching Essentials&lt;br&gt;Basic Switching Concepts &amp; Configuration, VLAN’s, Routing Concepts, Static and Dynamic Routing, Inter VLAN Routing, Single Area OSPF, Access Control Lists, DHCP &amp; Network Address Translation</td>
<td>50 hrs</td>
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Theory / Lecture Hours 40 hrs
Practical / Tutorial / Lecture Hours 40 hrs
Total Hours 80 hrs
Self learning (quiz and activities) 40 hrs.

Books Recommended for Reading and Reference:
• Official Cert Guide CCENT/CCNA ICND1 100-105, Cisco Press