

LEVEL 1 – CCNA CERTIFICATION

INTRODUCTION:

In today's enterprise IT scenario, industries and academicians have been talking about skill gaps and have been categorically coining word "unemployable engineers". The demand of Industry, particularly in Technology sector today is readily employable workforce. This industry is partially product driven and majorly service driven. After adoption of technology by client, business is dependent on service.

Certifications are the means to bridge this gap and equip oneself with know-how of product and technologies related to that product adopted by wide client-base.

Cisco Certified Network Associate (CCNA) course is basically a foundation level course which is meant for augmenting aspirants' capabilities in different fields of networking including installation, functional verification, configuration, operation and implementation of networking connections. Those with CCNA certification can find good job opportunities in various top networking firms.

CCNA course includes the study of basics regarding how networks function and how to lay down the basic configurations of various networking equipments. It helps the aspirants to build up a good idea relating to WAN / LAN connections. Various protocols including IP, IGRP, frame relay, CLAN's, Ethernet, Serial, IP RIP, RIP, Access lists, etc are also included in this certification course.

CISCO – CCNA CERTIFICATION:

At Malla Reddy College of Engineering and Technology, **Dr. V.S.K. Reddy garu, Principal, MRCET** along with **Prof. K Kailasa Rao garu, Director (CSE/IT), Dr. S Srinivasa Rao, HOD(ECE), Dr. D Sujatha, HOD(CSE)**, and the trainers inaugurated the three – day

programme on **CISCO – CCNA Certification** Course scheduled for BTech III year students of **Computer Science Engineering** from 28th July 2017 till 31st July 2017.

Dr. V.S.K. Reddy garu, Principal, MRCET addressed the students about the need and benefits of CCNA certification and enriched them with a complete **overview of Networks** – history, usage of networks, how they are important, the different layers, TCP/IP, routing issues etc.

In the afternoon, **Dr.D Sujatha, HOD(CSE)** delivered an interactive session on **exploring the network** that included communication among the networks, converged networks, requirements of a reliable network, and the basic structure of internet. She clearly illustrated the **configuration of network** operating system using the **Cisco Packet Tracer** tool. Cisco Packet Tracer is a powerful network simulation program that allows students to experiment with network behavior.

Day II and Day III were vibrant with all the students pursuing the zeal to learn more about networking. The forenoon session on Ethernet and Network Layer was conducted by **Dr.S.Srinivasa Rao, HOD(ECE)**. The afternoon session was taken over by **Mr.Chandra Sekhar Reddy** on network access, network protocols and communication.

Day III too continued with the same spirit prevailing among the students. The forenoon session was conducted by **Mr. A Syam Prasad**, giving a presentation on IP addressing and Subnetting, followed by **Dr. N S Gowri Ganesh**, highlighting the importance of Transport Layer and Application Layer.

The day ended up with **Mr. K Sudhakar Reddy**, building a small network using Cisco Packet Tracer that makes use of a drag and drop user interface, allowing users to add and remove simulated network devices as they see fit. This enhanced the understanding of the students

providing them a strong academic foundation. This training is another milestone in the road of the achievements of the department in strengthening the capability of the students to develop advanced skills by gaining exposure to corporate scenarios.







Nodes

NODES MAY CONNECT TO OTHER NODES ONLY, OR TO OTHER NODES
NODE TO NODE LINES USUALLY MULTIPLEXED
NETWORK IS USUALLY PARTIALLY CONNECTED
SOME REDUNDANT CONNECTIONS ARE DESIRABLE FOR RELIABILITY

TWO DIFFERENT SWITCHING TECHNOLOGIES

Circuit switching

Packet switching

