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ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of Electronics & communication Engineering

Date: 03.01.2021.

To
The principal
Aditya College of Engineering & Technology
Surampalem

Respected sir,

[Through Head of the Department]

Sub: Request for your approval to organize a certification course on "CCNA" - reg.

It's our greatest pleasure to bring to your kind notice that, we the Department of Electronics & communication Engineering would like to train our B.Techstudents in the **CCNA** adapted initially, with the help of our staff; as the present scenario Networking is more helpful andstrengthen the software development and dataanalytics. It will be more helpful to the students in theoretical and technical point of view. In this regard we are requesting your permission for further proceedings.

Resource Person

Mr. P Janardhan Reddy

Assistant Professor

Honorarium

Rs. 8000/-

Mu hand.

Aditya College of Engineering & Technology SURAMPALEM- 533 437

Course Coordinator

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ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of Electronics & communication Engineering

Date: 04.01.2021

CIRCULAR

All the B.Tech students are here by informed that a one-week program is arranged to enhance the knowledge on CCNA, as per the schedule from 15th February, 2021. All interested students can attend the program and utilize the opportunity. The schedule is attached.

Course Coordinator: Mr. Arava Mohan

+919502228464

Head of the Department

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Department of Electronics & communication Engineering

CCNA Syllabus

Network Fundamentals -role and function of network components, Routers, L2 and L3 switches, Next-generation firewalls and IPS, Access points, Controllers (Cisco DNA Center and WLC), Endpoints, Servers

Network topology architectures- 2 tier, 3 tier, Spine-leaf, WAN, Small office/home office (SOHO), On-premises and cloud,

Physical interface and cabling types- Single-mode fibre, multimode fibre, Connections (Ethernet shared media and point-to-point), Concepts of PoE

Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed), TCP to UDP, Configure and verify IPv4 addressing and subnetting, verify IPv6 addressing.

IPv6 address types- Global unicast, Unique local, Link local, Anycast, Multicast, Modified EUI 64, Verify IP parameters for Client OS (Windows, Mac OS, Linux)

wireless principles- Nonoverlapping Wi-Fi channels, SSID, RF, Encryption, virtualization fundamentals (virtual machines)

switching concepts- MAC learning and agin, Frame switching, Frame flooding, MAC address table

Course Coordinator

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Head of the Department

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Department of Electronics & communication Engineering

Schedule of CCNA:

nedule of CCNA:		
	Day-1:	
	FN	Inauguration of the Program and speakers talk about the objectives of the event.
	AN	Network Fundamentals -role and function of network components, Routers, L2 and L3 switches
	Day-2:	
	FN	Next-generation firewalls and IPS, Access points, Controllers (Cisco DNA Center and WLC), Endpoints, Servers
	AN	Network topology architectures- 2 tier, 3 tier, Spine-leaf, WAN, Small office/home office (SOHO), On-premises and cloud,
	Day-3:	promises and croad,
	FN	Physical interface and cabling types- Single-mode fibre, multimode fibre, Connections (Ethernet shared media and point-to-point), Concepts of PoE
	AN	Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed), TCP to UDP, Configure and verify IPv4 addressing and subnetting, verify IPv6 addressing
	Day-4:	ir vo addressing
	FN	IPv6 address types- Global unicast, Unique local, Link local, Anycast, Multicast, Modified EUI 64, Verify IP parameters for Client OS (Windows, Mac OS, Linux)
	AN	Wireless principle- Nonoverlapping Wi-Fi channels, SSID, RF, Encryption, virtualization fundamentals (virtual machines)
	Day-5:	
	FN	$\boldsymbol{switching\ concepts-}\ MAC\ learning\ and\ agin$, Frame switching , Frame flooding , MAC address table
	AN	Valedictory

Course Coordinator

Head of the Department

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