



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(An UGC Autonomous Institution, Affiliated to JNTUH, Hyderabad Accredited 2nd time by NAAC with
'A' Grade & NBA and Recipient of World Bank Assistance under TEQIP-II S.C. 1.1)
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100
www.mrec.ac.in

Department of Computer Science and Engineering

CIRCULAR

Date: 21/07/2019

All the students are hereby informed that Value Added Course on “CCNA MODULE-I” is being organized by the **Computer Science and Engineering** department on dated 1st August 2019 to 06th August 2019. The resource person for the course is “Mr. Shubhajit jagadev, Head CISCO Academy Support center.”

Students are advised to register their names to the programme coordinator “Mr. P Venkateshwara Rao, Asst Prof, CSE Dept”, on or before 31/07/2019 and utilize this opportunity to enhance their skills by attending the programme.

The detailed schedule of the programme will be displayed in the notice board.

Head of the Department

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD's
- 3) Notice Boards
- 4) PA to principal for filing.



Ramesh
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

About the Institution

Malla Reddy Engineering College (Autonomous) is one of the reputed engineering colleges in Hyderabad, Telangana. **MREC (A)** is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal(M), Medchal-Malkajgiri District Telangana- 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in UG courses provides PG courses and MBA along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by **Dr. S. Sudhakara Reddy, Principal, MREC (A)** who have a rich teaching and industrial experience.

Advisory Committee

Chief Patrons: Sri. Ch. Malla Reddy, Minister-Telangana State-India.
Founder Chairman
Malla Reddy Group of Institutions

Patrons: Sri.Ch. Mahender Reddy
Secretary, MRGI
Dr. Ch. Bhadra Reddy
President, MRGI

Co-Patrons: Dr. S. Sudhakara Reddy
Principal, MREC (A)

Convener: Dr. G. Charles Babu
HOD CSE

Coordinator: Mr. P. Venkateshwara Rao
Assistant Professor, CSE

Resource Person: Shubhajit Jagadev,
Head, Cisco Academy Support Center

Organizing Committee:

Dr. Dr. O. Obulesu, Professor, CSE
Dr. S. Dhanalakshmi, Professor, CSE
Mr. Sanjeeva Polepaka, Associate Professor, CSE
Mr. P.V. Ramana Murthy, Assistant Professor, CSE
Ms. S. Sandhya Ran, Assistant Professor, CSE
Mr. Md. Inayathulla, Assistant Professor, CSE
Mr. A. Lakshman, Assistant Professor, CSE
Mr. Yarava Rakesh Kumar, Assistant Professor, CSE
Mrs. G. Vamshi Krishna, Assistant Professor, CSE



*A One-Week Skill development Course
(Value added Course)*

On

"CCNA Module-I"

(1st to 6th August, 2019)



*Organized by
Department of*

**Computer Science and Engineering
MALLA REDDY ENGINEERING COLLEGE**

(AUTONOMOUS) MAIN CAMPUS

An UGC Autonomous Institution, Approved by
AICTE & Affiliated to JNTUH-Hyderabad
Reaccredited by NAAC with 'A' Grade (II Cycle)
Maisammaguda(H), Gundlapochampally (V),
Medchal (M), Medchal - Malkajgiri District
Telangana - 500100, India.



*Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Hyderabad
(Post Malkajgiri District)*

Registration Form

Name of the Participant :-----

Branch & Year :-----

Name of Institution:-----

Address for Communication:-----

Mobile Number:-----

E-Mail ID:-----

DECLARATION:

The information furnished above is true to the best of my Knowledge.

Place:

Date:

Signature of Applicant

About the Department

The Department of CSE was started in the year 2005 with a vision of imparting high-quality education to suite the global standards in Computer science and Engineering. The department has got highly qualified & committed faculty members supported by dedicated technical staff.

The department has its own library and sophisticated laboratories not only to suite curriculum requirements but also to serve research needs such as Computer Networks, Data Mining, Software Engineering, Image processing & Cloud Computing, Workshops, software simulation etc. The department formed CSI and ISTE student branch for the benefit of students and faculty by conducting technical Conferences, workshops, FDPs and Guest lectures.

Overview of the Programme

The **CCNA** course recognizes basic skills in installing, supporting, and troubleshooting wired and/or wireless networks. One can choose from several tracks, including Cloud, Collaboration, Cyber Ops, Data Center, Industrial, Routing and Switching, Security, Service Provider and Wireless.

The **CCNA** certification validates your skills and knowledge in network fundamentals, network access, IP connectivity, IP services, security fundamentals, and automation and programmability.

Objectives of the Programme

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student was able to proficiently:

- Understand and describe basic switching concepts and the operation of Cisco switches
- Understand and describe enhanced switching technologies
- Understand and describe dynamic routing protocols, distance vector routing protocols, and link-state routing protocols
- Configure and troubleshoot basic operations in a small switched and routed network
- Configure and troubleshoot VLANs and inter-VLAN routing

Topics to be covered

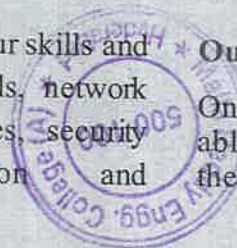
- Exploring the Network,
- Configuring a Network Operating System,
- Network Protocols and Communications,
- Network Access

Certificate

After successful completion of the course the certificates shall be issued to the participants.

Outcome of the program.

On completion of this course, participants will be able to equip with all the skills required to match these expectations.



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(Autonomous)
Maisammaguda, D.
(Post Via Koppal)



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500100
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VAC CCNA MODULE-I Syllabus

- **Introduction to CCNA course**
- **Network access:** Virtual LAN (VLAN) Concepts, Data VLAN, Cisco Switching Concepts, Access Mode Ports, Trunking Operation, Static Trunking, Troubleshooting Trunk Interfaces.
- **Nondefault Native VLAN:** Dynamic Trunking Protocol (DTP), Layer 2 EtherChannel (LACP), Layer 3 Port Channel, Spanning Tree Operation, Rapid Per-VLAN Spanning Tree (RPVST+), Root Bridge Selection, PortFast Enhancement, Networking Fundamentals, Power over Ethernet, Cisco Discovery Protocol (CDP), Link Layer Discovery Protocol (LLDP).
- **Wireless infrastructure:** Wireless Networking Concepts, Autonomous Mode (Single SSID), Autonomous Mode (Multiple SSID), Cisco Mobility Express Setup.
- **IP Addressing:** Network Addressing Tutorial, IPv4 Addressing, IP Default Gateway, Binary Conversion Table, Network Address Zones, Classful (FLSM) vs Classless (VLSM), IP Subnetting - Class C, IP Subnetting - Class B, IP Subnetting - Class A, Subnetting Practice Lab.
- **IP Connectivity Fundamentals:** IPv4 Static Route, Troubleshooting Static Routes, IPv4 Default Route, IPv4 Floating Static Route, IPv6 Static Route, IPv6 Default Route, Practice Quiz: Route Selection, OSPF Link-State Routing Protocol, Single-Area OSPFv2 Design, Practice Quiz: OSPF Fundamentals, OSPF Designated Router Election.
- **security fundamentals:** Cisco IOS Hardening, Enable Password, Enable Secret (MD5), Console Port Rack Access, Remote Virtual Terminal Lines (VTY), Local Authentication Database, TACACS+ Server, Secure Shell (SSHv2), Switch Port Security, DHCP Snooping/DAI
- **IP services:** DHCP Network Services, IOS DHCP Server, Practice Quiz: DHCP Services, Domain Name Services (DNS), Network Address Translation, Port Address Translation, Static NAT Implementation, Network Time Protocol (NTP), Cisco IP Phone QoS.
- **System Management and Automation:** Managing Layer 2 Switches, Loopback Management Interface, Network Monitoring, Practice Quiz: Management Protocols, TFTP Server, Network Automation, JSON Validator Tool.
- **Configuration practice labs:** IP Connectivity, IP Services and Security, Operational Commands (Part 1), Operational Commands (Part 2).



Ramud
Principal
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Maisammaguda (H), Medchal-Malkajgiri District, Telangana State – 500100

Department: CSE

CCNA

Date:01/08/2019-06/08/2019

Value Added Courses
List of Students enrolled and Completed

Sl.No	Roll No	Name of the Students	Year/Semester
1	17J41A0501	ALAPATI SAI LEKHANA	III/I
2	17J41A0552	TAMBALLA AVINASH	III/I
3	17J41A0553	TANUJA BETHA	III/I
4	17J41A0554	TELAPUDI SHEKAR	III/I
5	17J41A0571	CH ANKITHA	III/I
6	17J41A0586	JULAKANTI GOPI	III/I
7	17J41A05D0	BELLAMKONDA PRIYANKA	III/I
8	17J41A05E1	GUMMALAMPATI ANVIKA	III/I
9	17J41A05H1	TAMMI NIKHIL KUMAR	III/I
10	17J41A05L5	LINGANNAGARI ROSHINI REDDY	III/I
11	16J41A0501	A LAKSHMI PRATYUSHA	IV/I
12	16J41A0510	CHERUKURI RAKESH KUMAR	IV/I
13	16J41A0535	MANDADI PALLAVI	IV/I
14	16J41A0563	ARAVENI DEEPAK	IV/I
15	16J41A0583	KASARAPU VIVEK CHANDRA	IV/I
16	16J41A05A8	PINDI BHANU PRAKASH	IV/I
17	16J41A05E4	GORAK DEVENDER	IV/I
18	17J45A0505	SIDDAM RAKESH	III/I
19	17J45A0508	KANREDDY NAVEEN REDDY	III/I
20	16J41A05P3	SURAGALI PRIYADHARSHINI	IV/I
21	16J41A05N6	RAVANABOINA ALEKHYA	IV/I
22	16J41A05P1	SHAIK NAFISA	IV/I



Raveendra
Principal
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VAC-CCNA MODULE I - Summary

07.08.2019

Course duration: 1st August 2019 to 7th August, 2019

Overview of the Course

CCNA Module 1 introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Students learn how to configure a router and a switch for basic functionality.

The main objective of this course is to learn about architecture, structure, functions, components, and models of the Internet and other computer networks, structure of IP addressing and the fundamentals of Ethernet concepts and architecture, components, and operations of routers and switches in a small network, handling RIPv1, RIPv2 and managing virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

The speaker also covered the following topics:

How to troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

Outcome of the program

At the end of this course, by the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. architecture, components, and operations of routers and switches in a small network.

After successful completion of the course the certificates are issued to the participants



R. Srinivas
Principal
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500100

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VAC CCNA MODUEL-I



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Malla Reddy Engineering College
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. TANUJA BETHA bearing Roll No. 17J41A0553 has successfully completed Certificate / Value Added Course / Workshop in CCNA MODULE -I conducted by the Department of Computer Science and Engineering from 01st August 2019 to 06 August 2019.

COORDINATOR



HOD

Ravendra
Principal
Malla Reddy Engineering College
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. CHERUKURI RAKESH bearing Roll No. 16J41A0510 has successfully completed Certificate / Value Added Course / Workshop in CCNA MODULE -I conducted by the Department of Computer Science and Engineering from 01st August 2019 to 06 August 2019.

COORDINATOR



HOD

Ramesh
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PRINCIPAL



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. MANDADI PALLAVI bearing Roll No. 16J41A0535 has successfully completed Certificate / Value Added Course / Workshop in CCNA MODULE -I conducted by the Department of Computer Science and Engineering from 01st August 2019 to 06 August 2019.

COORDINATOR

HOD

PRINCIPAL



Ravi
PRINCIPAL
Malla Reddy Engineering College
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(Post Via Kompally), Sec'bad-500 100



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. ARAVENI DEEPAK bearing Roll No. 16J41A0563 has successfully completed Certificate / Value Added Course / Workshop in CCNA MODULE -I conducted by the Department of Computer Science and Engineering from 01st August 2019 to 06 August 2019.

COORDINATOR

HOD

PRINCIPAL



Ravi
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(Post Via Kompally), Sec'bad-500 100



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. CH KASARAPU VIVEK bearing Roll No. 16J41A0583 has successfully completed Certificate / Value Added Course / Workshop in CCNA MODULE -I conducted by the Department of Computer Science and Engineering from 01st August 2019 to 06 August 2019.


COORDINATOR




HOD


PRINCIPAL
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(Post Via Kompally), Sec'bad-500 100
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