

# KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

## ERODE - 638 107

## DEPARTMENT OF COMPUTER APPLICATIONS

# VALUE ADDED COURSE (2018-2019) – SYLLABUS 18VCANA– NETWORK ADMINISTRATION

UNITI	Basics of Computers and Networks	8 Hours
I/O Process	puter Basics - Components of Computer System: Hardware and Soft - Network Basics - The Need and Applications of Computer Network ities of a Network Administrator - Types of Networks – Topology.	ware Components - ks – The Roles and
UNIT II	Network Components and Transmission Medium	9 Hours
Basi LAN Tester Connecters	c Network Components: Ethernet Card – Switch – Hub - Bridges – R - Punching tool - UTP – STP – Coaxial - Fiber Optics – Wireless –	Routers – Modem - Bluetooth –
UNIT III	Network Models & Protocols	8 Hours
OSI	and TCP/IP Models - Host - Work group - Domain - Subnet - Subn	et Mask – Gateway
Intranet – I	nternet - Proxy - DNS - FTP - SNMP - UDP - DHCP - Internet Pro	tocol and TCP/IP.
Intranet –	nternet - Proxy - DNS - FTP - SNMP - UDP - DHCP - Internet Proceedings of the Configuring a Network	tocol and TCP/IP.  8 Hours
Intranet –	nternet - Proxy - DNS - FTP - SNMP - UDP - DHCP - Internet Pro	tocol and TCP/IP.  8 Hours  lor Combination of
Intranet –	nternet - Proxy - DNS - FTP - SNMP - UDP - DHCP - Internet Proceedings of the Configuring a Network  mping - Crimping Techniques - Color Combination - Identifying Contables - Designing the Network - Setting up the Network - IP Addres	tocol and TCP/IP.  8 Hours  lor Combination of
Intranet – In UNIT IV Crin Network C Connecting UNIT V Sys	Configuring a Network  mping – Crimping Techniques – Color Combination - Identifying Coables – Designing the Network – Setting up the Network - IP Address a LAN Network – Creating Domain in the Server.	tocol and TCP/IP.  8 Hours  lor Combination of sing Scheme -  7 Hours  essing Remote

#### **Books for Reference**

1. Wayne Tomasi, Introduction to Data communication and Networking, PEARSON Edition.

2. Olivier Bonaventure, Computer Networking: Principles, Protocols and Practice.

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### PRACTICAL LIST

- 1. Design a simple network using various topologies.
- Discuss various types of networks.
- 3. Demonstrate networking components and its usage.
- 4. Demonstrate the various transmission medium and its differences.
- 5. Explain the data transfer mechanism through OSI models.
- 6. Explain the various protocols and its usages.
- 7. Demonstrate the color coding and UTP cable crimping techniques.
- 8. Design and configure a simple LAN network.
- 9. Demonstrate the basic networking commands and its usages.
- 10. Demo the windows server installation.

#### **OUTCOME:**

At the end of this course, each student should be able to

- Have a good overall picture of computer networking in general and specific.
- Install network software's and operating systems.
- Configure, monitor and maintain a simple network environment.



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