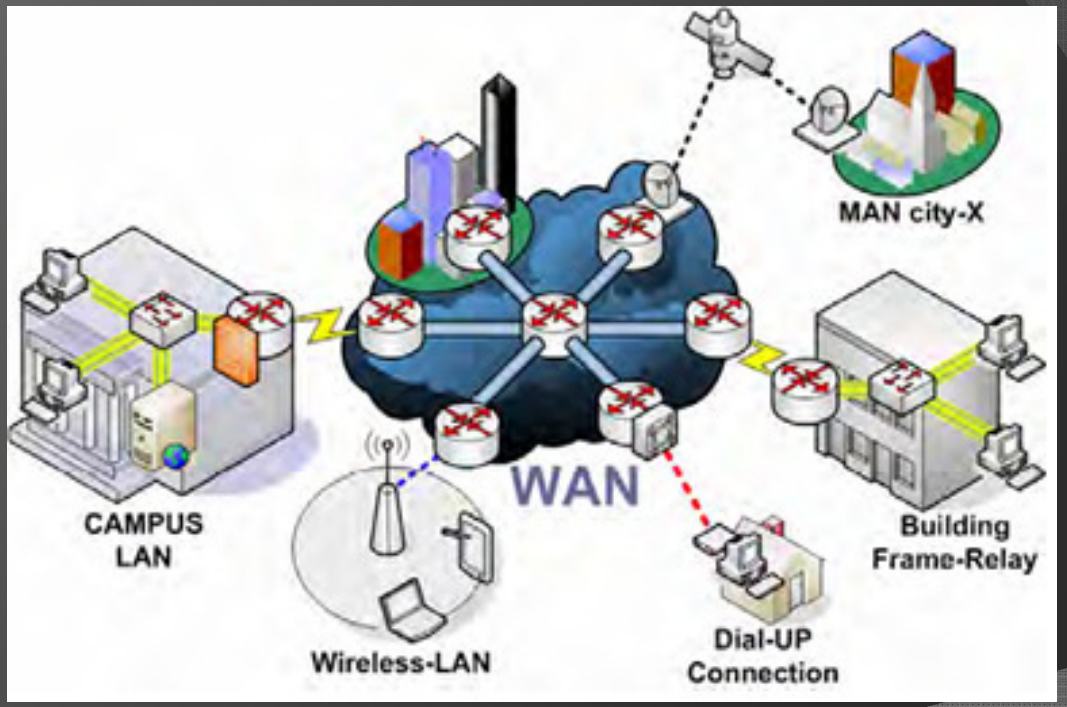
Introduction



NETWORKING 1

COURSE DESCRIPTION

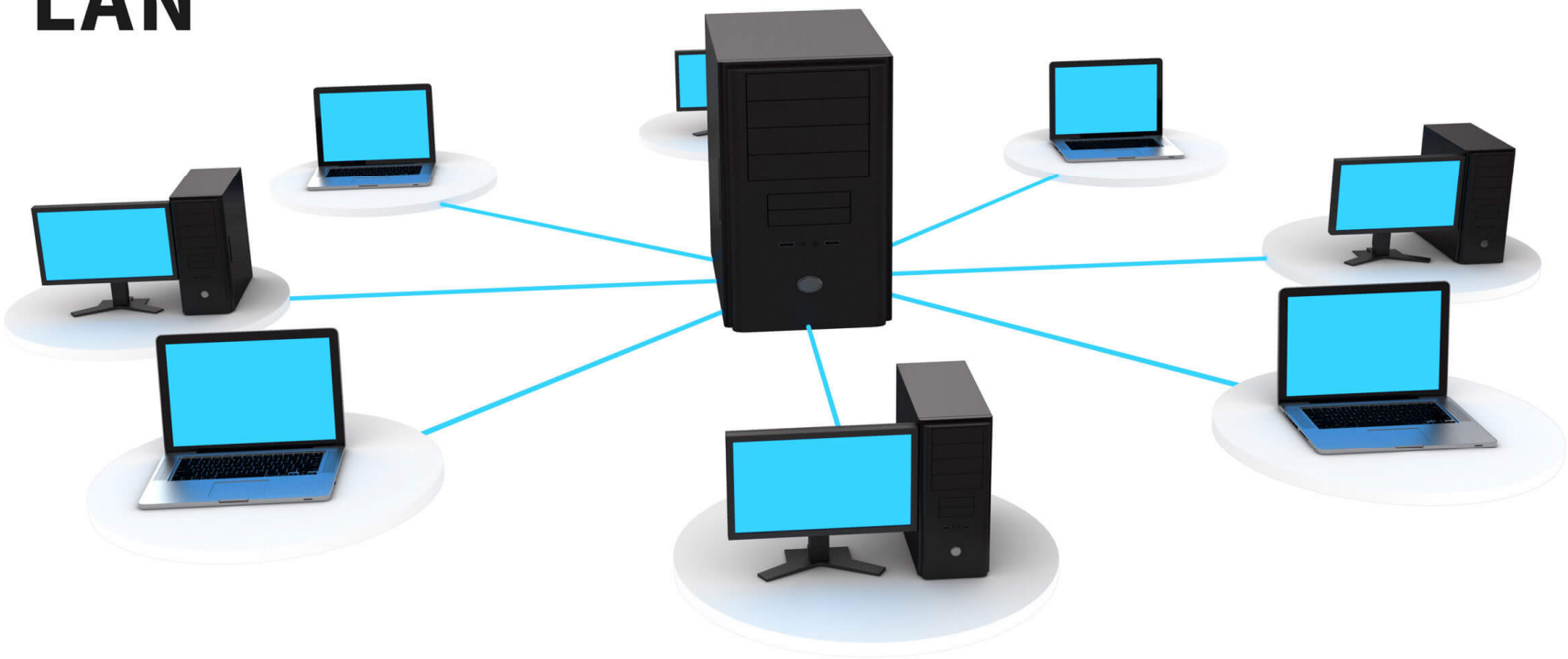
- This course emphasizes the knowledge and application of basic concepts of data communication and networking technology. It includes network models and topologies, industry standards, IP Addressing, technology devices and design implementation.

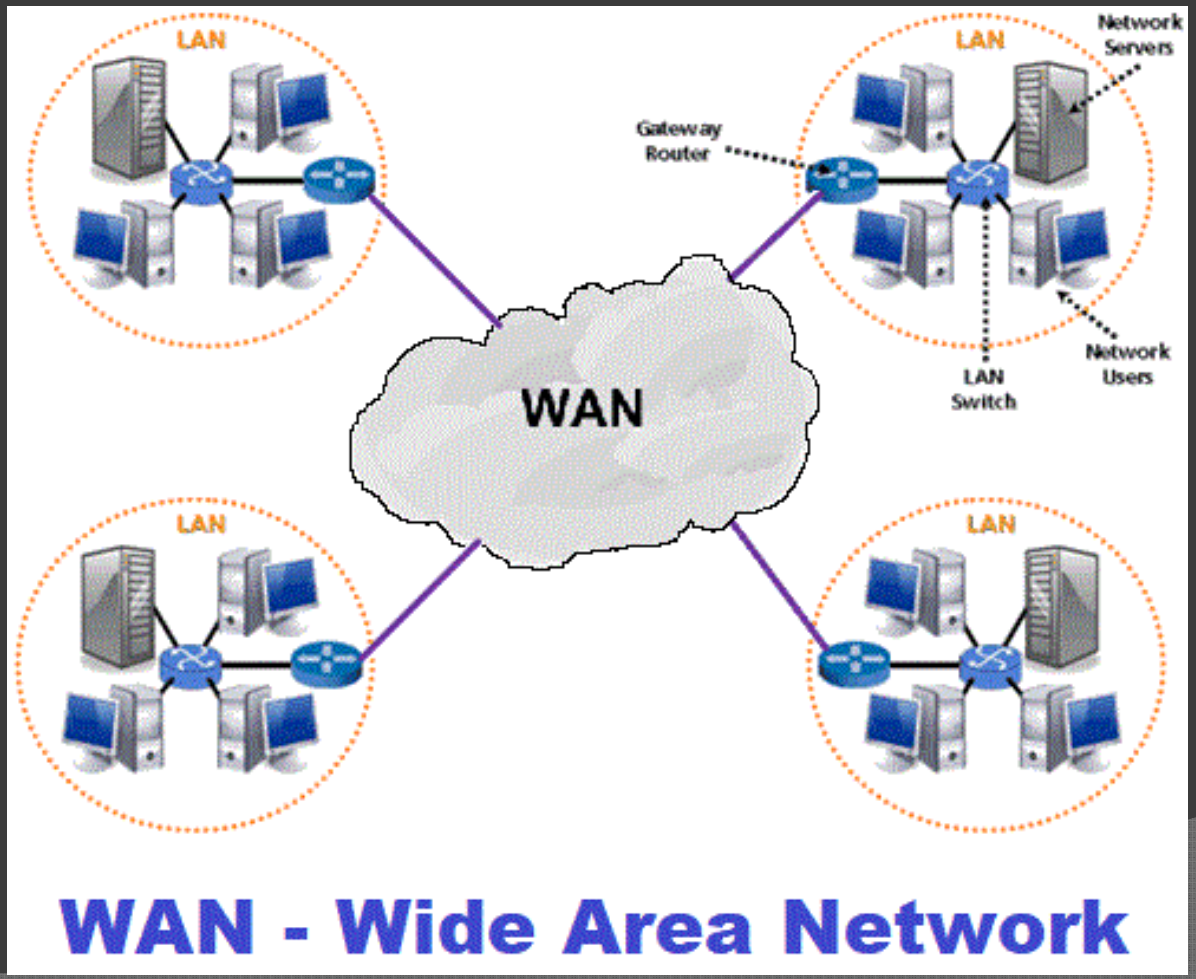
TOPIC SUMMARY

1. INTRODUCTION TO SYSTEM AND NETWORK ADMINISTRATION
2. FUNDAMENTALS OF NETWORKING
3. NETWORKING TOPOLOGIES, CLASSFUL IP ADDRESSING AND DATA TRANSMISSION
3. THE OPEN SYSTEM INTERCONNECT (OSI) MODEL, TCP/IP PROTOCOLS
4. ARCHITECTURE MODEL AND THE INTERNET
5. NETWORK CABLING, DEVICES AND EQUIPMENTS
6. NETWORK INSTALLATION AND CONFIGURATION
7. NETWORK TROUBLE SHOOTING

8. WIRELESS NETWORKS
9. VIRTUALIZATION AND CLOUD COMPUTING
   DATA BACKUP AND DISASTER RECOVERY
10. NETWORK SECURITY, INTRUSION DETECTION AND
    PREVENTION
11. INTRODUCTION TO SERVERS/NETWORK OPERATING SYSTEM
12. INTRODUCTION TO ROUTING
13. NETWORK DESIGN CONCEPT
14. NETWORK PROJECT DESIGN, DEVELOPMENT, AND
    IMPLEMENTATION

LAN




LAN
LAN
Network
Servers
Gateway
Router
WAN
LAN
Switch
Network
Users
LAN
LAN
WAN - Wide Area Network

Self-Introduction

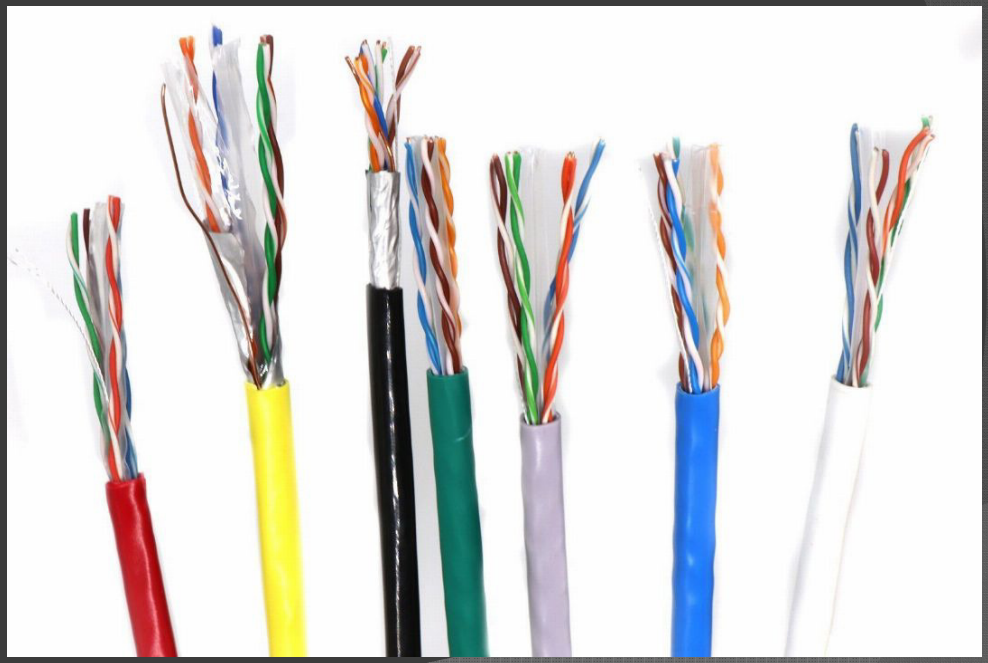
GRADING

Midterm / Final Examination	**40%**
Class Standing	**20%**
Quizzes	**30%**
Attendance	**10%**
	100%
Passing Mark	**75%**

REQUIREMENTS

1. Crimping Tool Set with Impact/ PuncDown Tool

- CAT5/UTP CABLE



- RJ45
  KEYSTONE JACK

2pcs

SIMULATOR APPLICATION

- CISCO PACKET TRACER

Class Rules

- Come to class prepared to learn.
- No Food or Drinks in the Classroom and Laboratory
- Help keep the classroom and Laboratory Tidy.
- You can always ask question during discussion.
- **Do not hesitate to ask question/s.**
- **No vandalism is allowed in the classroom**
- **Be well dressed in complete uniform**
- **Mobile Phones/Games/Gadgets not allowed during class discussion**