

# **AICTE & CISCO Virtual Internship program**

## **Course Contents**

### **Introduction to Cybersecurity**

- Chapter 1: The Need for Cybersecurity
- Chapter 2: Attacks, Concepts and Techniques
- Chapter 3: Protecting Your Data and Privacy
- Chapter 4: Protecting the Organization
- Chapter 5: Will Your Future Be in Cybersecurity?

### **Introduction to Packet Tracer**

- Chapter 1: Introduction to Packet Tracer
- Chapter 2: The User Interface
- Chapter 3: Stimulation View
- Chapter 4: Packet Tracer Usage
- Chapter 5: IoT Components in Packet Tracer
- Chapter 6: Creating and Controlling a Smart Home Network
- Chapter 7: Packet Tracer Environment Controls
- Chapter 8: Creating and Programming Objects in PT

### **Cyber Security Essentials**

- Chapter 1: Cybersecurity - A World of Experts and Criminals
- Chapter 2: The Cybersecurity Cube
- Chapter 3: Cybersecurity Threats, Vulnerabilities, and Attacks
- Chapter 4: The Art of Protecting Secrets
- Chapter 5: The Art of Ensuring Integrity
- Chapter 6: The Five Nines Concept
- Chapter 7: Protecting a Cybersecurity Domain

Chapter 8: Becoming a Cybersecurity Specialist

## **CCNAv7: Introduction to Networks**

Modules 1 - 3: Basic Network Connectivity and Communications

Modules 4 - 7: Ethernet Concepts

Modules 8 - 10: Communicating Between Networks

Modules 11 - 13: IP Addressing

Modules 14 - 15: Network Application Communications

Modules 16 - 17: Building and Securing a Small Network