Course Introduction

ITN 3162 Distributed Networks

Course Outline

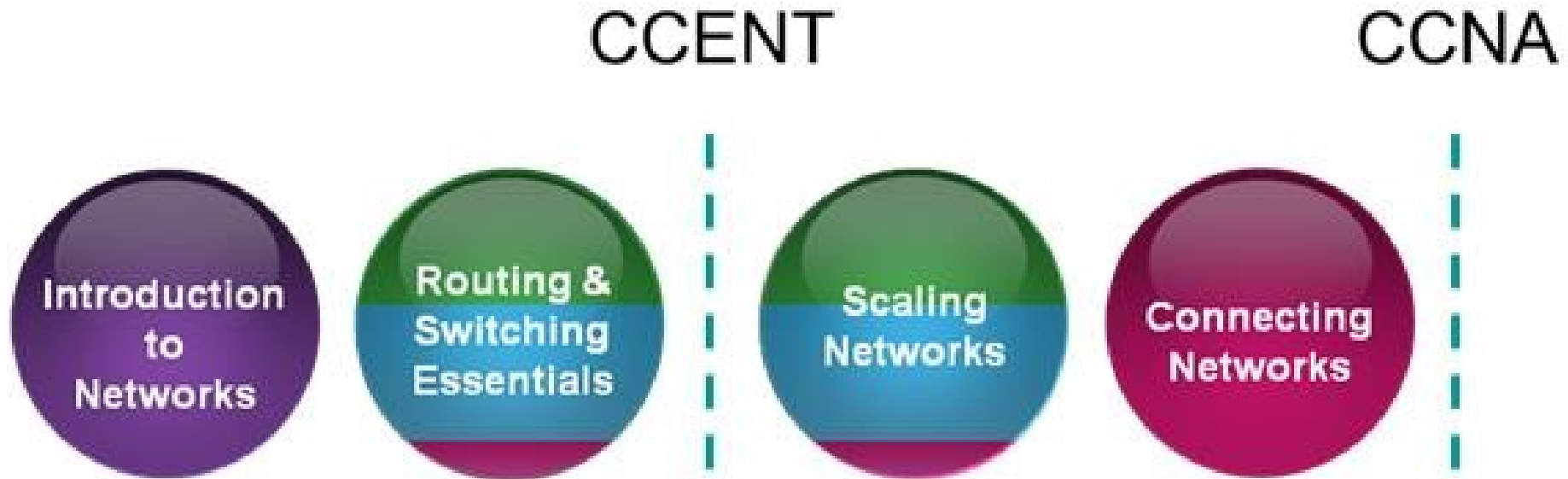| Topics |
| --- |
| LAN Design, Campus Wired LAN Designs, Scalable Hierarchial Network Designs |
| Scaling VLANs, VTP, Extended VLANs, and DTP, Layer 3 Switching |
| Spanning Tree Concepts, Varieties of Spanning Tree Protocols, Spanning Tree Configuration |
| Link Aggregation, Enterchannel and HSRP, Link Aggregation Configuration, First Hop Redundancy Protocols |
| Dynamic Routing Protocols, Distance Vector Dynamic Routing, Link-State Dynamic Routing |
| Single-Area OSPF, Multiarea OSPF, OSPF Tuning and Troubleshooting |
| WAN Concepts, Point-to-Point Connections, Branch Connections |
| Access Control Lists, Network Security and Monitoring |
| Quality of Service |
| Network Evolution, Network Troubleshooting |

Course Outline vs. CCNA Module

CCENT   **CCNA**

Introduction to Networks

Routing & Switching Essentials

Scaling Networks

Connecting Networks

Note: Cisco has announced new CCNA 200-301 Exam which will be effective from 24th February 2020. *******
https://www.imedita.com/blog/200-301-ccna-exam-updates/

Course Assessment

- End Semester Examination – 60% (50%)
- Lab/Tutorials – 20% (30%)
- Mid-semester Quiz – 20%

Course Details

- LMS:
  - http://lms.tech.sjp.ac.lk/course/view.php?id=40
- Other Learning Materials:
  - CCNA Scaling Networks:
    - https://www.youtube.com/playlist?list=PL8VT5seZ_GWhiMo1i4OeuAWwO2e-zsiLw (Packet Tracer)
    - https://www.youtube.com/playlist?list=PL1U-z6tCj5WA8LU8jm36FTGyh6awD7sAI (Lectures from Old Lessons)
  - CCNA Connecting Networks:
    - https://www.youtube.com/playlist?list=PL8VT5seZ_GWgqLlVs5o1XqaiaJmoZuqn2 (Packet Tracer)
    - https://www.youtube.com/playlist?list=PL1U-z6tCj5WAnTSaZfnSlZP1s7XpG9PT_ (Lectures from Old Lessons)