Advanced Routing

Course Introduction

Malin Bornhager

Instructors

- **Malin Bornhager (malin.bornhager@hh.se)**

    Office: E315

    - Course responsible

    - Lectures

    - Laborations

- **Olga Torstensson**

    - Lectures

- **Muhammad Ahsan Rasool**

    - Lectures

    - Laborations

Course Material

- Text books:
  - Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide
    - ISBN10: 1587204568
    - ISBN13: 9781587204562
  - Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide
    - ISBN10: 158720455X
    - ISBN13: 9781587204555

- Lab manual, lecture slides etc on course web page in BlackBoard

- Assessments, on-line on Cisco Netacad (www.netacad.com)

Contents of CCNP ROUTE

- Basic Network and Routing Concepts

- EIGRP

- OSPF

- Manipulating Routing Updates

- Path Control

- Enterprise Internet Connectivity

- BGP

- Router Security

Contents of CCNP TSHOOT

- Troubleshooting Methods

- Structured Troubleshooting

- Network Maintenance Tasks and Best Practices

- Basic Switching and Routing Process and Effective IOS Troubleshooting Commands

- Using Specialized Maintenance and Troubleshooting Tools

- Troubleshooting Case Studies:

  - SECHNIK Networking

  - TINC Garbage Disposal

  - PILE Forensic Accounting

  - Bank of POLONA

  - RADULKO Transporting

Schedule, Advanced Routing - 2019

- Lectures
  7 lectures

- Laborations
  - 3 groups (20 students/group)
  - 7 laborations + scheduled time for self-studies
  - Mandatory attendance
  - Prepare all labs before you attend to class

- Written Exam
  Week 12 (March 22nd, preliminary date)

- Skills Exam
  Week 12 (March 19th-21st)

Examination

- Skills Exam (4 credits)
  - 2 hours, practical test
  - Register in BlackBoard
  - Grade 3, 4 and 5

- Written Exam (2.5 credits)
  - Grade 3=50%, 4=70%, 5=90%
  - Register via StudentLadok

- Laborations (1 credit)
  - Mandatory attendance
  - Troubleshooting laboration (March 12-13)
    - Work in pairs
    - Pass/Fail

Cisco Academy Certificate

- Not mandatory part of the course

- Pass the course with grade 4 or 5

- Final Exam (on-line)
    - >70%

Course Evaluation

- Purpose:
  - Quality assurance
  - Quality development

- Digital course evaluation tool (survey)
  - Five common statements + two common free text questions
  - Examiner can add up to five course specific statements/questions

- Course ambassadors
  - Aim is to strengthen student participation in order to jointly improve the quality of our education
  - 2-4 students
  - Mission to discuss and bring in the groups overall feedback

Questions

?