

Computer Networks 6

Halmstad University

Philip Heimer

philip.heimer@hh.se

New CCNP4 Optimizing Converget Networks

Cisco.com

- **Converged Network Connectivity Requirements**
- **VoIP Implementations**
- **Implement the DiffServ QoS Model**
- **Implement Cisco AutoQoS**

Objectives Network Troubleshooting

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- **Documenting and Baselining the Network**
- **Troubleshooting Methodologies and Tools**
- **Layer 1 - 7 Troubleshooting**

Schedule Computer Networks 6

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Lecture W 44,45,46,47

Lecture 1 Introduction, QoS

Lecture 2 VoIP Implementations

Lecture 3 Troubleshooting

Lecture 4 Wireless

Labs W 44, 45, 46, 47 (project wednesday+thursday), 48, 49

Thursday 09.15-12.00 gr1

13.15-16.00

Friday 09.15-12.00 gr2

13.15-16.00

Schedule Computer Networks 6 CCNP4

- **Project**

W47

- **Final Exam**

W49

Tuesday 10-12

- **Skills Exam**

W 50

Thursday 8-12 gr1

Friday 8-12 gr2

Project **Computer Networks 6 CCNP4**

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Make case study : create working configuration, make problems & troubleshoot

Each group will troubleshoot another's group case study, present own network and finding troubles and solution for these problems

W46

- **Planning and preparation of project**

W47

- **Show working configuration, troubleshooting, project presentation, report writing**

Project

2-3 people

- **make case study — working configuration**
- **document network /topology diagram**
- **10 problems (Layer 2-Layer 7)**
- **scenario/describe the problems**
- **Write Report**

Equipment

- **4 routers**
- **2 switches**
- **Routing (OSPF / EIGRP / BGP/ Static/ HSRP)**
- **Security, Firewall & ACL**
- **VLAN**

Examination **Computer Networks 6 CCNP4**

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- **Mandatory LABs**
- **Project**
- **Module Exams**
- **Final Exam (70% certificate, 50 % pass the course)**
- **Skills Exam + Written part**

Computer networks 6

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<http://www.hh.se/computernetworks6>

**Olga Torstensson (Course responsible,
Project)**

olga.torstensson@hh.se

Philip Heimer(Lectures, Labs, Skills Exam)

philip.heimer@hh.se

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Skills Exam W2

- **include short theoretical part – 2h**
- **important Labs for skills preparation are all mandatory labs:**
- **3.1, 4.1, 4.2, 4.4, 4.5 4.6, 4.8**

Examination **Computer Networks 6 CCNP4**

Skills Exam

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- **Own notes**
- **Basic configuration files**
- **Only configurate QoS**
- **All labs bonus (20%)**

3.1 4.1-4-6 4.8 4.9 5.1

100-96% - 5, 95-80% - 4, 50-79% - 3