

Applied Advanced Routing

Halmstad University

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Objectives

- **OSPF, EIGRP, IS-IS**
- **Routing Redistribution and optimization**
- **BGP**
- **Routing IP Multicast**
- **IPv6 (OSPF, IPv6 tunnels)**

Schedule

Cisco.com

Lecture W 4 , 5, 6, 7

Monday 10.15 -12.00

Labs W 6,7,8,9

Gr 1 Tuesday 9.15-12.00

Gr2 Tuesday 13.15-16.00

Gr3 Thursday 13.15-16.00

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Mandatory LABs

Cisco.com

w6 OSPF LAB 3-1, 3-2, 3-3

**w7 IS-IS LAB 4-1, 4-2,
BGP LAB 6-1, 6-2,**

**w8 BGP LAB 6-3, 6-4
Multicasting LAB 7-1, 7-4**

w9 IPv6 LAB 8-1, 8-2, 8-3

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Schedule Project

Cisco.com

Demonstration W 10 – working network

Submit Report W10 – last date 5/2

Presentation W 11- PPP presentation

Gr 1 Tuesday 9.15-12.00

Gr2 Tuesday 13.15-16.00

Gr3 Thursday 13.15-16.00

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Schedule

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Project

- **3 person**
- **4 routers**
- **15 min presentation**
- **Report (6-7 pages) submit before 5/2**
- **Report send to olga.torstensson@hh.se**

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Examination

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- **Mandatory LABs**
- **Project , report & presentation**
- **Writing Exam w 12**

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Course homepage

Cisco.com

- **Olga Torstensson – course responsible**

Olga.Torstensson@hh.se

www.hh.se/staff/olto

Applied Advanced Routing

**[http://www.hh.se/english/ide/education/student/courses/
appliedadvancedrouting.4833.html](http://www.hh.se/english/ide/education/student/courses/appliedadvancedrouting.4833.html)**

Lectors: Ola Lundh

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Cisco on-line materials

Cisco.com

- E-mail to Olga.Torstensson@hh.se
- Name, mail address, personal number ,
Cisco login

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Course materials

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- Behrouz A. Forouzan TCP/IP Protocol Suite, ISBN 0-07-296772-2
- On-line Cisco materials
- RFC

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Recommended reading

Cisco.com

The OSI Model and the TCP/IP Protocol Suite
Underlying Technologies
IP Addresses: Classful Addressing
Subnetting/Supernetting and Classless Addressing
Delivery and Routing of IP Packets
ARP and RARP
Internet Protocol
ICMP
IGMP
UDP
TCP
Unicast Routing Protocols
Multicasting and Multicast Routing Protocol
Next generation: IPv6 and ICMPv6

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Extra Teaching

Cisco.com

W4

- **Tuesday 9.15-12.00, Tuesday 13.15-16.00, Thursday 13.15-16.00**

W5

- **Monday 13.15-16.00, Tuesday 13.15-16.00, Thursday 13.15-16.00**

W6

- **Monday 13.15-16.00**

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Extra Teaching – LABs

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- **IP addressing, VLSM**
- **TCP/IP, ARP**
- **Routing , static & RIP**
- **NAT/PAT**
- **DHCP**