

ETSF15

Communication system and networks

Lectures:

Stefan Höst, Jens A Andersson

Exercises:

Sha Hu



LUND
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Objectives of the course

- Understanding of data communication and networks
- Logical levels of communication
 - Physical: How can data be transmitted from A to B?
 - Network: How does a data/packets find its way through the internet?
 - Application: How can we use it?

Course content

- 7 lectures
- 5 exercises
- 3 laboratory sessions
- Exam (14/3, 14-19, Vic1A-B)
- Home page: <http://www.eit.lth.se/course/etsf15>

Schedule of lectures (E:B)

L	Date	Topic	
1	18/1 15-17	Introduction, digital-analog	JA,SH
2	19/1 15-17	Data transmission	SH
3	2/2 15-17	Network structures and framing	JA
4	9/2 15-17	Networking and addressing	JA
5	16/2 15-17	IP and routing	JA
6	23/2 15-17	End to end connection: TCP, UDP, etc	JA
7	1/3 15-17	Mobile networks and LTE	SH

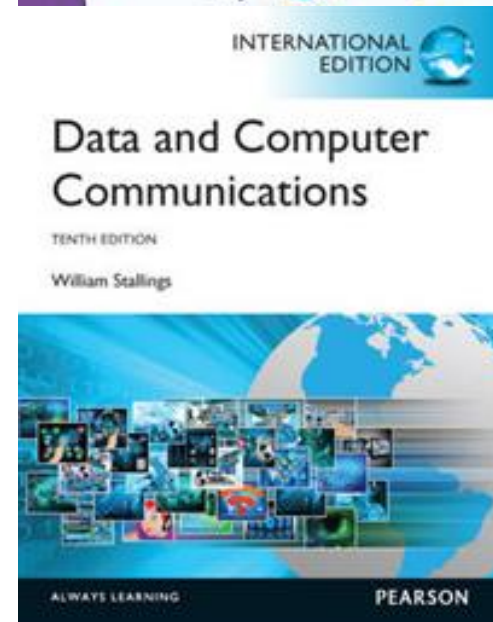
Laboratory exercises

Calendar week	Topic
5	Data transmission
8-9	PPP/Multi user
10	Networking

- Four groups per lab
- Sign up for groups on the web page
- Prepare before

Course material

- Two alternative books
 - Internet, M. Kihl and J. A. Andersson
 - Data and Computer Communications (10th Ed), William Stallings
- Extra material on web page (elearning.eit.lth.se)
- Slides published on web page
- Lab manuals
- Exercises



Access moodle

- <http://elearning.eit.lth.se>
- Login with your STiL account
- Enroll to the course: *****
- (Create profile)