Course: TTM4100 Communication - Services and Networks (version: 13.03.2017).

Textbook: J. F. Kurose and K. W. Ross. *Computer Networking: A Top-Down Approach (International Edition, 6/E or Global Edition 7)*. Pearson Higher Education.

Course Responsible: Norvald Stol / Course Coordinator: Norvald Stol (assisted by Nattachart Tamkittikhun) / Lecturers: Kjersti Moldeklev, (Norvald Stol)

Assistants: Magnus Johansen (und.ass.), Ida Wold (und.ass.); Gaute Solbu Kleiven, Petter Kowalik Gran, Simon Kvannli, Anders Lima, Andrea Nornes, Olav Sortland Thoresen (all stud.ass.).

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Piazza-forum for questions/discussion of curriculum: piazza.com/ntnu.no/spring2017/ttm4100/home

Lecture/tuition Schedule: (Thursday: 12:15-15:00, R1. Friday: 09:15-11:00, R1) (Tuitions for the Programming Labs and Project may be given either in F1 Wednesday 18:15-20:00 or in R1 when no lecture/tuition) (Tuitions for theory assignments in R1 most Thursdays 14:15-15:00).

Deadlines: See schedule below.

Week	Date & Time	Topic	Room	Responsible	Remark (ref.to 6 th edition)
2	Thursday	Practical Information;	R1	Norvald	
	12:15 – 14:00	Course Introduction			
		N		TZ! .!	
		Network and Internet		Kjersti	Chapter 1 + brief introduction to
2	Friday	Overview Network and Internet	R1	Kjersti	Physical layer. Chapter 1
2	09:15 – 11:00	Overview (cont)	KI	Kjersu	Chapter 8.1
3	Thursday	Application Layer	R1	Kjersti	Chapter 2
	12:15 – 14:00	Application Layer	KI	Kjeisti	Chapter 2
	12.12				
	Thursday	Theory Assignment 1:	R1	Assistants/	One must deliver and pass at
	14:15 - 15:00	Overview of Computer Networks		Ida/Norvald	least 5 of the 8 theory
		and the Internet Wireshark Lab 1:			assignments.
		Intro (optional but highly			
		recommended!)			
3	Friday	Application Layer (cont)	R1	Kjersti	Chapter 2
	09:15 – 11:00		D.1	77'	Chapter 8.2-3 and 8.5.1
4	Thursday 12:15 – 14:00	Transport Layer	R1	Kjersti	Chapter 3
	12:15 – 14:00				
	Thursday	Theory Assignment 2:	R1	Assistants/	One must deliver and pass at
	14:15 – 15:00	Application Layer		Ida/Norvald	least 5 of the 8 theory
					assignments.
4	Friday	Transport Layer (cont)	R1	Kjersti	Chapter 3
	09:15 – 11:00	•			-
5	Thursday	Transport Layer (cont)	R1	Kjersti	Chapter 3
	12:15 – 14:00				Chapter 8.6
5	Friday	Network Layer	R1	Kjersti	Chapter 4
	09:15 – 11:00	D 1 G 1 G		D 10	
6	Wednesday	Python Crash Course	F1	Magnus/Bank?	Install Python before the crash
6	18:15 – 20:00 Thursday	Network Layer (cont)	R1	Kjersti	course. Chapter 4
0	12:15 – 14:00	Thetwork Layer (cont)	KI	Kjeisu	Спариет 4
	12.13				
	Thursday	Theory Assignment 3:	R1	Assistants/	One must deliver and pass at
	14:15 – 15:00	Transport Layer		Ida/Norvald	least 5 of the 8 theory
		Wireshark Lab 2:			assignments.
		TCP (optional but highly recommended!)			
6	Friday	Network Layer (cont)	R1	Kjersti	Chapter 4
	09:15 – 11:00	, , , , ,			Chapter 8.7 and 8.9, 8.9.1
	09:15 – 11:00				Chapter 8.7 and 8.9, 8.9.1

7	NOTE:	No loctures from toythook	in wook	7				
7-8	See "it's	No lectures from textbook in week 7. Programming Lab 1: P15 - Assistants/ One must deliver and pass at						
7-8	learning" for when assistants are present.	HTTP Web Server Programming Lab 2: UDP Pinger	Rall	Ida/Bank	least 2 of the 3 programming labs.			
	present.	Programming Lab 3: SMTP Mail client						
8	Wednesday 18:15 – 19:00	"Help Lecture" for project	F1	Bank/ Magnus	One must fulfil the project requirement.			
	Thursday 12:15 – 14:00	Link Layer & LAN	R1	Kjersti	Chapter 5			
	Thursday 14:15 – 15:00	Theory Assignment 4: Network Layer Wireshark Lab 3: IP (optional but highly recommended!)	R1	Assistants/ Ida/Norvald	One must deliver and pass at least 5 of the 8 theory assignments.			
8	Friday 09:15 – 11:00	Link Layer & LAN (cont)	R1	Kjersti	Chapter 5			
8	Sunday 24:00	Deadline for ALL programming labs - Delivery in "It's learning" NB! NB! NB!						
9	NOTE:	No lectures from textbook in week 9.						
9-10	Mon – Fri 08:15 – 16:00	Project design (KTN1)	P15 - Rall	Assistants/ Norvald				
10	Thursday 12:15 – 14:00	Wireless Networks	R1	Kjersti	Chapter 6			
	Thursday 14:15 – 15:00	Theory Assignment 5: Link Layer	R1	Assistants/ Ida/Norvald	One must deliver and pass at least 5 of the 8 theory assignments.			
10	Friday 09:15 – 11:00	Wireless Networks (cont)	R1	Kjersti	Chapter 6 Chapter 8.8 and 8.8.1			
10	Friday 16:00	Deadline for KTN1 – Project Design		Assistants/ Magnus	Show project design to course assistants for approval, at P15.			
11-12	Mon – Fri 08:15 – 16:00	Project implementation (KTN2)	P15 - Rall	Assistants/ Norvald				
11	Thursday 12:15 – 14:00	Multimedia Networking	R1	Kjersti	Chapter 7			
	Thursday 14:15 – 15:00	Theory Assignment 6: Wireless and Mobile Networks	R1	Assistants/ Ida/Norvald	One must deliver and pass at least 5 of the 8 theory assignments.			
11	Friday 09:15 – 11:00	Multimedia Networking (cont)	R1	Kjersti	Chapter 7			
12	NOTE:	No lecture from textbook in week 12 or 13.						
12	Thursday 14:15 – 15:00	Theory Assignment 7: Multimedia networking	R1	Assistants/ Ida/Norvald	One must deliver and pass at least 5 of the 8 theory assignments.			
12	Friday 16:00	Deadline for KTN2 - Project implementation		Assistants/ Magnus	Show project impl. to course assistants for approval, at P15.			
13	Thursday 14:15 – 15:00	Theory Assignment 8: Security in Computer Networks	R1	Assistants/ Ida/Norvald	Tuition. One must deliver and pass at least 5 of the 8 theory assignments.			
14	Thursday 12:15 – 14:00	Course Content Revisit	R1	Kjersti				
14	Friday	Course Content Revisit	R1	Kjersti				
2.1	09:15 – 11:00	Information about Exam		Norvald				
21	22 May	Final exam, 09:00-13:00						