

Signalteori för audionomer 2024

Events marked with a * are compulsory. Color code: Lectures; Student activity/Lab/Exercise, Student presentation/examination

Vecka	date	time	place	event	teacher
35	Mon 2/9	*8.30-12	4I Takterassen ANA 8, plan 4	Introduction and Lecture 1: Signals	ME+NE
		13-16	301 Ursula ANA 23, plan 3	Intro to Audacity;	ME
		*17		Lab 1 Wave analysis (tasks 1-2), Exercises 1 (tasks 1-3)	
		*		Quiz Signals	
	Tue 3/9	*9-12	4C Takterassen ANA 8, plan 4	Follow-up on lab 1; Lecture 2: Signals and spectrum	NE
		*13-15	S301 Ursula ANA 23 plan 3	Lab 1 Wave synthesis: building signals (exercise in Excel)	ME
				Lab 1 Wave synthesis: upload to Canvas before 5 pm	
		*		Quiz Signals and Spectra	
	Wed 4/9	*9-12	4I Takterassen ANA 8, plan 4	Follow-up in Quiz; Lecture 3: Power and sound level of acoustic signals	NE+ME
		*13-15	S301 Ursula ANA 23 plan 3	Lab 1 Wave analysis (tasks 3-7)	ME
	Thu 5/9	9-12	Zoom	Lecture 4: Power and sound level of acoustic signals	ME
		13-14.30	Zoom break-out rooms	Exercises 1 (tasks 4-7), (Lägg till powerlab/bandkällor)	ME
	Fri 6/9	*9-15	515 ANA 10, plan 5	Presentations of solutions to Lab 1 and Exercises 1	ME
36	Mon 9/9	*9-17	Hårcellen, ANA 10	Oral seminar 1 - basic signal theory (30-45 min per group)	ME
	Tue 10/9	9-12	4I Takterassen ANA 8, plan 4	Lecture 5: Intro to Systems, homogeneity	ME
		13-15		*Quiz on linearity, Exercises 2 (task 7)	
		13-	PhEar	Second chance: Lab 1 and Ex 1 presentations	
	Wed 11/9	9-12	4I Takterassen ANA 8, plan 4	Sign-up for lab 2; Pick 'My system' topic	ME
				Lecture 6: Signals and systems, LTI	
		afternoon		*Quiz on hearing aid programs' linearity, Exercises 2 (tasks 1-6) /Exercise: A walk through the auditory system (book Ch 12)	
				Second chance: Small group seminars on basic signal theory	
	Thu 12/9			Study day: Finish Exercises 2: Start prepare 'My system' topic	
	Fri 13/9	10-12	Zoom	Study day; Follow up on Exercises; Prepare 'My system' topic	ME



Karolinska
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Prepare for lab 2 : Videolecture on resonance

37	Mon 16/9	8-8:30 8:45-12	Zoom	Briefing: Report writing guidelines, assessment criteria Lecture 7: Signal processing in hearing aids. Intro to our measuring systems (lab 2)	ME ME
		*13-17	PhEar, ANA 10	Lab 2: Hearing aid as a system & Report writing	ME
				Parallel activities: Tube resonance system (demo video and assignment)	
	Tue 17/9			Study day	
	Wed 18/9	*8-17	PhEar, ANA 10	Lab 2: Hearing aid as a system & Report writing	ME
				Parallel activities: Tube resonance system (demo video and assignment)	
	Thurs 19/9	8-9 *12 *13-17 *24	Zoom Deadline	Follow-up on hearing aid laboration Report writing on hearing aid laboration: send to peer group Peer review Upload report with peer-review comments to Canvas	ME
	Fri 20/9	*12 em	Deadline	Correct report and upload final report to Canvas Prepare: 'My system' topic	

Kommenterad [ME1]: @Monica Beckius Hellgren Ändrade här nu

38	Mon 23/9	*9-17	515 ANA 10 plan 5	*Symposium: My system (presentations on e.g. impulse response, sources of nonlinearity in auditory system/hearing aids)	ME
	Tue 24/9	9-10 Drop-In	Zoom	Study day (question catalogue) Question forum Time slot for second/third chances	ME
	Wed 25/9	10-11 Drop-In	Zoom	Study day (question catalogue) Question forum Time slot for second/third chances	ME
	Thu 26/9	*9 -17	Hårcellen, ANA 10	Oral examination in small groups: On signals and systems (45 min, compulsory)	ME
	Fri 27/9	*9-12	4I Takterassen ANA 8, plan	Course summary/Feedback	ME

Kommenterad [ME2]: Flytta till em

Teachers: Martin Eklöf ME MSc EE, PhD, KI, Niklas Edvall NE Audionom, PhD, KI