		E1 244 - O Detection and Estir course plan	nation Theory	
ek	Date	Торіс	HW/project announcement	Due dates
1	10 Jan 2022	Introduction		
2	12 Jan 2022	Linear algebra and random processes		
3	17 Jan 2022	Minimum variance unbiased (MVU) estimation		
4	19 Jan 2022	Cramer-Rao lower bound		
5	24 Jan 2022	Cramer-Rao lower bound	Homework 1	Homework 1: 2 Feb 2022
6	26 Jan 2022	HOLIDAY- NO CLASS		
7	31 Jan 2022	Generalized MVU		
8	2 Feb 2022	Generalized MVU		
9	7 Feb 2022	Best Linear Unbiased Estimation (BLUE)	Homework 2	Homework 2: 16 Feb 2022
10	9 Feb 2022	Maximum likelihood estimation (MLE)	Mini-project 1	Mini-project 1: 25 Feb 2022
11		Maximum likelihood estimation (MLE)		
12		Gaussian linear models and least squares		
13	21 Feb 2022	-		
14		Mid-term exam		
15		Bayesian estimation - MMSE		
16		Bayesian estimation - MAP	Homework 3	Homework 3: 14 March 2022
17		Linear MMSE	Mini-project 2	Mini-project 2: 20 March 2022
18		Kalman filters	Project	Project: 9 April 2022
19		Detection theory - Neyman Pearson	FIOJECI	Floject. 9 April 2022
20		Bayes detector		
20		Multi-hypothesis testing	Mini-project 3	Mini-project 3: 30 March 2022
21		Matched filters and energy detectors	winii-project s	wini-project 5: 50 March 2022
22			Homework 4	Homowork 4, 6 April 2022
		Composite hypothesis testing	HOINEWORK 4	Homework 4: 6 April 2022
24		Wald and Rao tests		
25	•	Locally most powerful test		
26	-	Sequential probability ratio test		
27	11 Apr 2022	Project presentations		
	25 Apr 2022, 4-7 pm	Final exam		
	Assessment type	Percentage		
	Mini-project 1	10		
	Mini-project 2	10		
	Mini-project 3	10		
	Project	20		
	Mid-term	10		
	4 x Homework	20	(5 pts. per Homework)	
	Final	20		
	Total	100		
		100		
	are allowed ONE dela Homework (out of 4)	y: Plan your schedule much in advance. You yed Mini-project (out of 3) plus ONE delayed of your choosing. No deadline extension		
	requests will be enter Project submission d	rtained except for genuine medical reasons. eadline is FIRM.		