Doto	<b>.</b>	Lecture No	Taula	Comments	Reading		
	_			Comments	Reduing		
3-8-2022		1	Introduction				
5-8-2022 I 8-8-2022 I		2	Linear Algebra Concento	Online Class			
			Linear Algebra Concepts				
10-8-2022		3	Probability Concepts	Online Class			
12-8-2022 I			N. Olser	L. J J D.			
15-8-2022		4	No Class	Independence Day	NIM OF 40		
17-8-2022			Least Squares Problems		NW Ch 10		
19-8-2022 I			Least Squares Problems		NW Ch 10		
22-8-2022			Introduction to Neural Networks		AG		
24-8-2022			Introduction to Neural Networks, Backprop		AG		
26-8-2022			Tutorial on Neural Networks with Tensor Flow		FC		
29-8-2022		9	Backprop, Gradient Descent		NW Ch 3		
31-8-2022			No Class	Ganesh Chaturti			
2-9-2022							
5-9-2022			Gradient Descent		NW Ch 3		
7-9-2022		11	Variants of Gradient Descent		RM 1		
9-9-2022			Quiz 1				
12-9-2022		12	Conjugate Gradient		NW Ch 5, RM 2		
14-9-2022		13	Conjugate Gradient		NW Ch 5, RM 2		
16-9-2022 I							
19-9-2022	М	14	Quasi-Newton		NW Ch 6		
21-9-2022		15	Quasi-Newton		NW Ch 6		
23-9-2022	F						
26-9-2022	M	16	Trust Region Methods				
28-9-2022	W		Study Break				
30-9-2022	F		Mid-Term Exam on Unconstrained Optimization				
3-10-2022 I	М		No Class	Puja Break			
5-10-2022	W		No Class	Dusserha			
7-10-2022 I	F						
10-10-2022 I	М	17	Regularization as a constrained optimization problem		NW Ch 12		
12-10-2022	W	18	Theory of Constrained Optimization		NW Ch 12		
14-10-2022 I	F						
17-10-2022 I	М	19	Linear Programming		NW Ch 13		
19-10-2022	W	20	Linear Programming		NW Ch 13		
21-10-2022	F						
23-10-2022	М	21	Linear Programming		NW Ch 13		
26-10-2022	W	22	Quadratic Programming, Support Vector Machines		NW Ch 16, AG		
28-10-2022 I	F						
30-10-2022 I	М	23	Quadratic Programming - Active Set Method		NW Ch 16,18		
2-11-2022	W	24	Study Break/Buffer				
4-11-2022 I	F		Quiz 2				
6-11-2022 I	М	25	Derivative Free Methods		RM 4		
9-11-2022	W	26	Derivative Free Methods				

11-11-2022 F	=								
13-11-2022 M	M 27	Dynamic Programming		RM 3					
16-11-2022 \	V 28	Dynamic Programming							
18-11-2022 F	=								
20-11-2022 M	И 29	Reinforcement Learning	Optional	AG					
		Final Exam as Per Institute Schedule							
		Reading Material							
	NW	Nocedal and Wright	<b>Numerical Optimization</b>						
	AG	Aurelien Geron	Hands on ML						
	FC	Francois Chollet	Deep Learning						
	RM 1	Stochastic Gradient Methods	https://arxiv.org/pdf/1609	https://arxiv.org/pdf/1609.04747.pdf					
	RM 2	Conjugate Gradient	a) http://www.cs.cmu	a) http://www.cs.cmu.edu/~quake-papers/painless-conjugate-gradient.pdf					
			b) https://github.com/	b) https://github.com/vschaik/Conjugate-Gradient/tree/1d22484a03ba5299800cfb889a4b05d4db323736					
	RM 3	Dynamic Programming	http://web.mit.edu/1	http://web.mit.edu/15.053/www/AMP-Chapter-11.pdf					
	RM 4	Chapter from textbook by C Balaji							
		Grading Scheme	Number of Items	Percentage of Final Score					
	Quiz	MCQ	2	20					
	P-Set	Programming Set	3	20					
	Mid Term	Descriptive Exam	1	30					
	Final	Descriptive Exam	1	30					