Week	Class Meeting	Class Meeting	Lab Meeting
	8:35-9:55, CS 143	8:35-9:55, CS 143	13:05-14:25, MCCain Arts - SS 2176
	3/Sep/2019	5/Sep/2019	6/Sep/2019
	Tuesday	Thursday	Friday
1	Intro to DS. Intro to R. Interacting with R through R notebooks	R basic concepts	R basic concepts
	10/Sep/2019	12/Sep/2019	13/Sep/2019
	Tuesday	Thursday	Friday
2	R basic concepts (cont.)	Data manipulation	Data manipulation with dplyr
	17/Sep/2019	19/Sep/2019	20/Sep/2019
	Tuesday	Thursday	Friday
3	Data pre-processing	Data pre-processing (cont.)	Data pre-processing
	24/Sep/2019	26/Sep/2019	27/Sep/2019
	Tuesday	Thursday	Friday
4	Data summarization	Data visualization	Summarization and visualization
	1/Oct/2019	3/Oct/2019	4/Oct/2019
	Tuesday	Thursday	Friday
5	Data visualization (cont.)	Reporting	Visualization and reporting
	8/Oct/2019	10/Oct/2019	11/Oct/2019
	Tuesday	Thursday	Friday

Tuesday Truesday True	6	Deployment through Shiny Web apps	Mid Term Exam	Shiny apps	
Tuesday Tuesday Thursday Thursday Introduction to Predictive Analytics. Classification and regression tasks. Evaluation metrics.  Tuesday Thursday Thursday Thursday Thursday Support vector machines  Support vector machines Support vector machines  Tuesday Thursday Thursday Thursday Thursday Thursday Thursday Thursday Tree-based models  Classification and regression trees.  Classification and regression trees (cont.)  Tree-based models  Tree-based models  Tree-based models  Tree-based models  Thursday Model evaluation and selection.  Model evaluation and selection (cont.) Model evaluation and selection with package performanceEstimation  Trusday Thursday Thursday Friday  Model evaluation and selection with package performanceEstimation  Treaday Thursday Thursday Thursday Friday  Fall Study Week - NO CLASSES					
Introduction to Predictive Analytics. Classification and regression tasks.  Evaluation metrics.    1		15/Oct/2019	17/Oct/2019	18/Oct/2019	
Classification and regression tasks.  Evaluation metrics.    Classification and regression tasks.   discriminants.		Tuesday	Thursday	Friday	
Tuesday  Thursday  Support vector machines  Su	7	Classification and regression tasks.	Linear models: linear regression and linear discriminants.	Linear models	
Support vector machines  Support vector machines (cont.)  Support vector machines.  Support vect		22/Oct/2019	24/Oct/2019	25/Oct/2019	
29/Oct/2019 31/Oct/2019 Tuesday Tousification and regression trees. Classification and regression trees (cont.) Tree-based models  Model evaluation and selection.  Model evaluation and selection (cont.)  Model evaluation and selection with package performanceEstimation  Tree-based models  Tree-based models  Tree-based models  Model evaluation and selection with package performanceEstimation  Model evaluation and selection with package performanceEstimation  Tree-based models  Friday  Friday  Friday  Friday  Friday  Friday  Friday		Tuesday	Thursday	Friday	
Tuesday Classification and regression trees. Classification and regression trees (cont.)  Tree-based models  Friday  Tuesday  Thursday  Model evaluation and selection with package performanceEstimation  Tuesday  Thursday  Tree-based models  Friday  Model evaluation and selection with package performanceEstimation  Friday  Tree-based models  Friday  Friday  Friday  Friday  Friday  Friday  Friday  Friday  Friday	8	Support vector machines	Support vector machines (cont.)	Support vector machines.	
Tuesday Classification and regression trees. Classification and regression trees (cont.)  Tree-based models  Friday  Tuesday  Thursday  Model evaluation and selection with package performanceEstimation  Tuesday  Thursday  Tree-based models  Friday  Model evaluation and selection with package performanceEstimation  Friday  Tree-based models  Friday  Friday  Friday  Friday  Friday  Friday  Friday  Friday  Friday					
Classification and regression trees.  Classification and regression trees (cont.)  Tree-based models  7/Nov/2019  7/Nov/2019  7/Nov/2019  7/Nov/2019  7/Nov/2019  7/Nov/2019  7/Nov/2019  Model evaluation and selection.  Model evaluation and selection (cont.)  Model evaluation and selection with package performanceEstimation  11  Fall Study Week - NO CLASSES		29/Oct/2019	31/Oct/2019	1/Nov/2019	
Tuesday Model evaluation and selection.  Model evaluation and selection.  Model evaluation and selection (cont.)  Model evaluation and selection with package performanceEstimation  Model evaluation and selection with package performanceEstimation  Tuesday  Thursday  Fall Study Week - NO CLASSES	9	Tuesday	Thursday	Friday	
Tuesday Model evaluation and selection.  Model evaluation and selection (cont.) Model evaluation and selection with package performanceEstimation  11  Tuesday Thursday Thursday Thursday Friday  Fall Study Week - NO CLASSES		Classification and regression trees.	Classification and regression trees (cont.)	Tree-based models	
Model evaluation and selection.  Model evaluation and selection (cont.)  Model evaluation and selection with package performanceEstimation  11  Model evaluation and selection with package performanceEstimation  15/Nov/2019  Tuesday  Thursday  Fall Study Week - NO CLASSES		5/Nov/2019	7/Nov/2019	8/Nov/2019	
11 PerformanceEstimation performanceEstimati		Tuesday	Thursday	Friday	
Tuesday Thursday Friday  Fall Study Week - NO CLASSES	10	Model evaluation and selection.	Model evaluation and selection (cont.)	Model evaluation and selection with package performanceEstimation	
Fall Study Week - NO CLASSES		12/Nov/2019	14/Nov/2019	15/Nov/2019	
Fall Study Week - NO CLASSES		Tuesday	Thursday	Friday	
19/Nov/2019 21/Nov/2019 22/Nov/2019	11	Fall Study Week - NO CLASSES			
		19/Nov/2019	21/Nov/2019	22/Nov/2019	

12	Tuesday	Thursday	Friday
	Clustering. Distance functions.	Partition-based clustering.	Clustering
13	26/Nov/2019	28/Nov/2019	29/Nov/2019
	Tuesday	Thursday	Friday
	Hierarchical clustering. Evaluation of clustering solutions.	Outlier detection methods.	Clustering and outlier detection
14	3/Dec/2019	5/Dec/2019	6/Dec/2019
	Tuesday	Thursday	Friday
	End of Classes		