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		3		07-09(406), 10-12(406)		
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		02-450-0532	OFFICE HOUR	2023-08-30 ~ 2023-12-31 15:00 ~ 17:00, 2023-08-30 ~ 2023-12-31 15:00 ~ 17:00	
		01090422293			
	E-Mail	shkwon0522@konkuk.ac.kr			

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1	course outline	grading policy, meeting plan, overview, empirical risk minimization	lecture	Q & A		07-09(406), 10-12(406)
2	linear regression	simple and multiple linear regression, fitting and interpretation, feature engineering	lecture	Q & A		07-09(406), 10-12(406)
3	regression assessment	goodness of fit, information criterion, prediction performance	lecture	Q & A		07-09(406), 10-12(406)
4	variable selection	best subset selection	lecture	Q & A		07-09(406), 10-12(406)
5	logistic regression	simple and multiple logistic regression, fitting and interpretation, feature engineering	lecture	Q & A		07-09(406), 10-12(406)
6	classification assessment	confusion matrix, accuracy, sensitvity, specificity, ROC, AUC	lecture	Q & A		07-09(406), 10-12(406)
7	penalized estimation	convex and non-convex penalties, tuning, the variants	lecture	Q & A		07-09(406), 10-12(406)
8	R practice	linear and logistic regression	lecture	Q & A		07-09(406), 10-12(406)
9	R practice	linear and logistic regression	lecture	Q & A		07-09(406), 10-12(406)
10	decision tree	tree structure, regression and classification tree, tuning, top-down algorithm	lecture	Q & A		07-09(406), 10-12(406)
11	support vector machine	margins, supporting hyperplnaes, kernel tricks	lecture	Q & A		07-09(406), 10-12(406)
12	ensemble methods	bagging, random forest, and boosting	lecture	Q & A		07-09(406), 10-12(406)
13	R practice	tree, svm, ensembles	lecture	Q & A		07-09(406), 10-12(406)
14	R practice	tree, svm, ensembles	lecture	Q & A		07-09(406), 10-12(406)
15	Presentation	Data analysis results report	lecture	Q & A		07-09(406), 10-12(406)

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16	Presentation	Data analysis results report	lecture	Q&A		07-09(406), 10-12(406)

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1. Students should be ready to use R. 2. Prerequisites: linear algebra, linear regression, multivariate data analysis

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