

(SYLLABUS)

1.

(Course Title)		(Instructor)			
(Year)	2022	(Semester)	1	(Course No.)	2150085901
(Class)	01	(Open to)		(Course Classification)	-
(Credit)	3.0		03		100
(Office)		(Telephone)	02-820-0710	(e-mail)	chlee@ssu.ac.kr
	(PBL				
	(*) (ABEEK Classification)		(*) (ABEEK Requirement)		
	() Python programming, , () , ,				
(Course Description)	.				

MLP, CNN, RNN	

가	(100)	
	100	100

(Required Texts)		* /Hands-on Machine learning with Scikit-Learn, Keras &Tensorflow/A. Geron/O'Reiley/2019/2nd/
	()	
	Python	Python .
	Engaged learning . ()	가 .
	:	30%, 30%, 10%, 10%, 20%

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2.

(Week)	(Keyword)	(Description)		(Texts)
01	Introduction			-
02	ANN		,	10
03	ANN	Keras MLP (1)	, , ,	10
04	ANN	Keras MLP (2) Fine Tuning	, , , , ,	10
05	DNN	Gradient	, , , , ,	11
06	DNN	optimizer Regularization overfitting	, , , , ,	11
07	DNN	Keras Custom model Tensorflow	, , , , ,	12,13
08		()	, , ,	
09	CNN	CNN	, , , , ,	14
10	CNN	CNN Keras CNN	, , , , ,	14
11	CNN	Localization	, , , , ,	14
12	RNN	Recurrent Neural network RNN attention	, , , , ,	15,16
13	Autoencoders	Autoencoder	, , , , ,	17
14			, ,	18
15	Deep RL	DRL	, , , ,	

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3. ()

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	Open-ended problem		
	Teamwork		
	Communication skills		