

(SYLLABUS)

1.

(Course Title)		(Instructor)			
(Year)	2024	(Semester)	1	(Course No.)	2150097701
(Class)	01	(Open to)	4 IT ,	(Course Classification)	-IT / -
/	3.0 / 03 / 3		100	가	가
(Office)		(Telephone)		(e-mail)	minhae@ssu.ac.kr
	, , (PBL)		+		2024
	(*) (ABEEK Classification)			(*) (ABEEK Requirement)	
	() Python programming, , () , , (),				
(Course Description)					

MLP, CNN, RNN	

가	(100)	(100%)
	100	100

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(Required Texts)		* /Hands-on Machine learning with Scikit-Learn, Keras &Tensorflow/A. Geron/O'Reiley/2022/3nd/
	()	* //2024
	: Python programming, Python .	
	Engaged learning + .	
	가 : 50%, 40%, 10%	

2.

(Week)	(Keyword)	(Description)		(Texts)
01	Introduction	,		10
02	ANN		,	10
03	ANN	Keras MLP (1): Keras API MLP , Keras (2): , 가	,	10
04	ANN	Keras MLP (3): ,	,	10
05	ANN	Fine Tuning	,	10
06	DNN	Gradient	,	11
07	DNN	optimizer Regularization overfitting	,	11 World IT Show (4/17-19,)
08	CNN	CNN	,	14
09	CNN	CNN , Keras CNN	,	14 AI Expo (5/1-3,)
10	CNN	Localization	,	14
11	sequence	Processing Sequences Using RNNs and CNNs	,	15
12	NLP	Natural Language Processing with RNNs and Attention	,	16

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13	Representation Learning	Autoencoder , Autoencoder CNN/RNN , Autoencoder GAN	, , , , , ,	17
14				
15	Deep RL	, DRL ,	,	18

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3. ()

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	Open-ended problem		
	Teamwork		
	Communication skills		