

(SYLLABUS)

1.

(Course Title)		(Instructor)			
(Year)	2025	(Semester)	1	(Course No.)	2150085901
(Class)	01	(Open to)	4	(Course Classification)	-IT / -
/	3.0 / 03 / 3		100	가	가
(Office)		(Telephone)	02-828-7150	(e-mail)	yoseob.han@ssu.ac.kr
			+		2023
	(*) (ABEEK Classification)			(*) (ABEEK Requirement)	
	() Python programming, , () , , (),				
(Course Description)					

MLP, CNN, RNN	

가	(100)	(100%)
	100	50
	100	15
	100	25
	100	10

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(Required Texts)		* /Hands-On Machine Learning with Scikit-Learn, Keras, and Tensorflow/Aurelien, Geron/O'Reilly Media/2023/3rd/
	()	* //2023
	: Python programming, Python Python .	
	Engaged learning + () , 가 가 .	

2.

(Week)	(Keyword)	(Description)		(Texts)
01	Introduction	,		10
02	Artificial Neural Network (ANN)	,	, ,	10
03	Artificial Neural Network (ANN)	MLP (1): Keras API MLP (2): , 가	, , , , ,	10
04	Artificial Neural Network (ANN)	MLP (3):	, , , , ,	10
05	Artificial Neural Network (ANN)	Fine Tuning	, , , , ,	10
06	Deep Neural Network (DNN)	Gradient ,	, , , , ,	11
07	Deep Neural Network (DNN)	Optimizer, Regularization Overfitting	, , , , ,	11,
08	Convolutional Neural Network (CNN)	CNN	, , , , ,	14,
09	Convolutional Neural Network (CNN)	CNN , CNN	, , , , ,	14,
10	Convolutional Neural Network (CNN)	Localization	, , , , ,	14,
11	Sequence	Processing Sequences Using RNNs and CNNs	, , , , ,	15,
12	Natural Language Processing (NLP)	Natural Language Processing with RNNs and Attention	, , , , ,	16,
13	Representation Learning	Autoencoder , Autoencoder CNN/RNN , GAN	, , , , ,	17.
14				
15	DeepRL	, DRL ,	, ,	18,

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3. ()

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	Open-ended problem		
	Teamwork		
	Communication skills		