(Syllabus)

[1]	(Basic Information)		

(Course Information)

/ (Year/Semester)	2021 / 1	(Campus)	(Seoul Campus)
(Course No.)	51247	(Class No.) — 01	(Credit) — 3

(Course Title)	(DIGITAL IMAGE PROCESSING)	/ (Time/Room)	310 616 < > / 619 < > 7,8 / 8 (310 616 < > / 619 < > FRI 7,8 / WED 8)
(Course Classification)	(Major)	(Lecture Type)	(Lone-teaching course)
(Course Type)	(Theoretical course)	(Medium of Instruction)	
(Accreditation)		(Accreditation of Engineering Education)	(Engineering subject-related course)
(College)	ICT (College of ICT Engineering)	( ) (Department)	ICT (School of Electrical and Electronics Engineering)
e-class (Usage of e-class)	Yes		

(Instructor Information)

(Name)	(Sungwook Yu)	(Department)	(School of Electrical and Electronics Engineering)
(Office Phone No.)	02-820-5740	(Contact No.)	820-5740
E-mail (E-mail)	sungwook@cau.ac.kr	(Department Phone No.)	820-5333
(Office Hour)	4 ~5	(Office Location)	207 532
(Course Web-site)			

[2] / (Learning Objectives/Outcomes)					

(Course Description)

. , (/) , , , / , , , .

(Prerequisites and Co-requisites)

(Learning Objectives)

, .

(Learning Outcomes)

[3] (Course Methods)					

(Teaching and Learning Methods)

(Teaching and Learning Methods)	(Additional Description)
(Lecture)	( )

(Assignments)

(Assignments)	(No.)	(, ,)(Assignments Description)
(Individual)	1	( ) MNIST

(Textbooks, Reading, and other Materials)

(Textbook/Reference)	(Title)	(Author)	/ (Year of Publication/etc)	/ (Publisher/Name of Journal)	/ (No. of Edition)
(Main Textbook)	Digital Image Processing	Gonzalez & Woods			
(Main Textbook)	Deep Learning from Scratch				

[4] (Student Assessment)		

(Assessment Item)	(%)(Assessment Ratio)	(Additional Description)
(Mid-term Exam)	40	,
(Final Exam)	40	

(Assessment Item)	(%)(Assessment Ratio)	(Additional Description)
/ (Participation/Attitude)	10	
(Assignment)	10	

[5] (Course Schedule)

(Week)	(Instructor)	(Topic & Content)	(Student Assignment)	(Additional Description & Instructor Assignment)
1				
2		( )		
3		( ) ( )		
4		( )		
5				
6		( )		
7		( ),		
8		(, ,)		
9		( )		
10				
11		MNIST	MNIST	
12				
13		Convolutional Neural Network (VGG, GoogLeNet, ResNet, ...)		
14		Feature Extraction, (kNN, Support Vector Machine, clustering)		
15		GAN (Generative Adversarial Network)		
16				

[6] (Guide to Learning)

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(1) 1 (" .pdf")
(2) 1

* , . (, A -> B+, C+ -> C)

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(Previous Exam Samples)
< >(<Download Additional Sample>)
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(Engineering Education)
(Learning Outcomes)

: 30	: 30	: 10	: 20
: 10			

_____(Title)
( ) MNIST

_____(Objective)
( ) MNIST

_____(Restrictions)

_____(Assessment Method)

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(In pursuant to the Article 71 "Discipline" of the Chung-Ang University Regulations, and Article 47
"Punishment for Cheating during Examination" under Chapter 6 of the Academic Affairs Management Rules,
any student caught engaging in academic misconduct during an exam will be subject to disciplinary action)

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1.   :   ,   ,   ,   ,
2.   :   ,   ,
3.   /   :   ,   ,
4.   ,
        : 02-820-6577~9(   ), 031-670-4816(   )
                (cauable)

In this class, students with disabilities are eligible for reasonable accommodations depending on the type and severity of disability. If you wish to receive accommodations listed below, please contact the Support Center for Students with Disabilities.
1. Visual Impairment: Braille, large print, electronic class materials, volunteer note-taker, adjustments in assessment practices, etc.
2. Hearing Impairment: Volunteer note-taker, stenographer, adjustments in assessment practices, etc.
3. Physical Disabilities/Brain Lesions: Classrooms with wheelchair access, volunteer note-taker, adjustments in assessment practices, etc.
4. Accommodations for students with other psychiatric disabilities or health impairments can be arranged through the Support Center for Students with Disabilities after consultation.
   Inquiry: 02-820-6577~9 (Seoul Campus), 031-670-4816 (Anseong Campus)
 - KakaoTalk Plus Friend ID: @ cauable