

# (Syllabus)

[1] (Basic Information)					
(Course Information)					
/	2020 / S		(Campus)		(Seoul Campus)
(Year/Semester)					
(Course No.)	49154	(Class No.)	01	(Credit)	3
(Course Title)	(ALGORITHMS)	/		310 616 ( 9) 619 (	7,8,9, 7,8,9, 7,8,9, 7,8,9,
(Course Classification)	(Major)	(Time/Room)		7,8,9, 7,8,9, 7,8)	
(Course Type)	(Theoretical course)	(Lecture Type)		(Lone-teaching course)	
(Accreditation)		(Medium of Instruction)		(Engineering subject-related course)	
(College)	ICT (College of ICT Engineering)	(Accreditation of Engineering Education)	( )	ICT (School of Electrical and Electronics Engineering)	
(Department)					
e-class (Usage of e-class)	Yes				
(Instructor Information)					
(Name)	(Park Ho Hyun)	(Department)		(School of Electrical and Electronics Engineering)	
(Office Phone No.)	02-820-5345	(Contact No.)		5345	
E-mail (E-mail)	hohyun@cau.ac.kr	(Department Phone No.)		5343	
가 (Office Hour)		(Office Location)		207-746	
(Course Web-site)	e-class				

[2] / (Learning Objectives/Outcomes)	
(Course Description)	
Study various algorithms such as Graph Traversal, Matching, Network, Flow, Code Optimization, and Divide and Conquer, Greedy algorithm, Branch and Bound, NP-Complete/NP-Hard, and analyze these algorithms and learn how to apply these algorithms to engineering fields.	
1	2,3 가 .
19가 1	가 .
가 1 가 가	가 .
2	.
(Prerequisites and Co-requisites)	
Computer programming (C language)	
(Learning Objectives)	
How to design good algorithms and analyze existing algorithms related to efficiency and complexity.	
(Learning Outcomes)	
Ability of designing good algorithms and solving various problems, Ability of analyzing existing algorithms, Ability of good programming skills	
[3] (Course Methods)	
(Teaching and Learning Methods)	
(Teaching and Learning Methods)	가 (Additional Description)
(Lecture)	
(Mid-term Exam)	19 ( 가)
(Final Exam)	19 ( 가)
(Assignments)	

(Textbooks, Reading, and other Materials)
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(Textbook/Reference)		(Title)	(Author)	/ (Year of Publication/etc)	/ (Publisher/Name of Journal)
(Main Textbook)		Introduction to algorithms	Thomas H. Cormen		MIT press
[4] 가 (Student Assessment)					
가 (Assessment Item)		가 (%) (Assessment Ratio)	가 (Additional Description)		
(Attendance)		10			
(Mid-term Exam)		40	( 가)		
(Final Exam)		50	( 가)		
[5] (Course Schedule)					
(Week)	(Instructor)	(Topic & Content)		(Student Assignment)	가 (Additional Description & Instructor Assignment)
1					
2		-			
3		- Linked List			
4		-			
5		-			
6		Divide & Conquer			
7		Sorting algorithms			
8		Mid-term exam			
9		Search Algorithm			
10		Dynamic programming			
11		Dynamic programming			
12		Greedy algorithm			
13		Graph algorithms			
14		Graph algorithms			
15		NP-hard/complete			
16		Final exam			

[6]		(Guide to Learning)	
1	2,3	가	.
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19가			
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가 1	가	가	.
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(Previous Exam Samples)			
E-Class			
< 가		>(<Download Additional Sample>)	
가			
(Engineering Education)			
(Learning Outcomes)			

(Title)
Programming projects (Sorting, Dynamic Programming, Graph Algorithms)
(Objective)
Good design of algorithms and programming (Sorting, Dynamic Programming, Graph Algorithms)
(Restrictions)
Knowledge of C language
가 (Assessment Method)
Individual evaluation (copy detection, self experience has more weight than perfection)
<p>71 【 】 6 47 【 】</p> <p>】</p> <p>( 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.)</p>

1. : , , , 가
2. : , 가
3. / : 가 , 가
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