

# (Syllabus)

[1] (Basic Information)				
<u>(Course Information)</u>				
/	2017 / 2	(Campus)		(Seoul Campus)
(Course No.)	41144	(Class No.)	01	(Credit) 3
(Course Title)	(ENGINEERING MATHEMATICS)	/	(Time/Room)	310 (310 ) 726 < >( 1,2) 727 < >( 3)(310 B603 < > TUE1,2,3)
(Course Classification)	(basic major course)	(Lecture Type)		(Lone-teaching course)
(Course Type)	(Theoretical course)	(Medium of Instruction)		
(Accreditation)		(Accreditation of Engineering Education)		MSC(MSC)
(College)	ICT (College of ICT Engineering)	( ) (Department)		ICT (School of Electrical and Electronics Engineering)
e-class (Usage of e-class)	Yes			
<u>(Instructor Information)</u>				
(Name)		(Department)	(School of Integrative Engineering)	
(Office Phone No.)		(Contact No.)	010-3680-0060	
E-mail (E-mail)	kckw94@gmail.com	(Department Phone No.)	02-820-5333	
가 (Office Hour)	1-3 pm	(Office Location)	207 707	
(Course Web-site)				

[2] / (Learning Objectives/Outcomes)					
<u>(Course Description)</u>					
<u>(Prerequisites and Co-requisites)</u>					
<u>(Learning Objectives)</u>					
<u>(Learning Outcomes)</u>					
50%, 40%, 10%					
[3] (Course Methods)					
<u>(Teaching and Learning Methods)</u>					
(Teaching and Learning Methods)		가 (Additional Description)			
(Lecture)		e-class , PPT			
(Quiz)		17 , 19 Quiz			
<u>(Assignments)</u>					
(Assignments)		(No.)		( , , )(Assignments Description)	
(Report)		4		chapter	
<u>(Textbooks, Reading, and other Materials)</u>					
(Textbook/Reference )	(Title)	(Author)	/ (Year of Publication/etc)	/ (Publisher/Name of Journal)	/ (No. of Edition)
	Advanced Engineering Mathematics	Dennis G. Zill & Warren S. Wright	2009	Jones & Bartlett Publishers	4~6th Ed
[4] 가 (Student Assessment)					
가 (Assessment Item)	가 (%) (Assessment Ratio)	가 (Additional Description)			
(Attendance)	10				
(Mid-term Exam)	40	Quiz 30%			
(Final Exam)	40	Quiz 30%			

가 (Assessment Item)		가 (%) (Assessment Ratio)	가 (Additional Description)	
(Assignment)		10		
[5] (Course Schedule)				
(Week)	(Instructor)	(Topic & Content)	(Student Assignment)	가 (Additional Description & Instructor Assignment)
1		Complex Analysis 17.1 Complex Numbers 17.2 Powers and Roots		
2		17.3 Sets in the Complex Plane 17.4 Functions of a Complex Variable		
3		17.5 Cauchy-Reimann Equations 17.6 Exponential and Logarithmic Functions		
4		17.8 Inverse Trigonometric and Hyperbolic Functions 17.7 Trigonometric and Logarithmic Functions		(17 )
5		( )		
6		18.1 Contour Integrals 18.2 Cauchy-Goursat Theorem		
7		18.3 Independent of path 18.4 Cauchy's Integral Formulas		(18 )
8				
9		19.1 Sequence and Series 19.2 Taylor Series		
10		19.2 Taylor Series 19.3 Laurent Series		
11		19.4 Zeros and Poles 19.5 Residues and Residue Theorem		
12		19.6 Evaluation of Real Integrals		(19 )
13		20.1 Complex Function as Mappings 20.2 Conformal Mapping		
14		20.2 Conformal Mapping 20.3 Linear Fractional Transformations		
15		20.4 Schwarz-Christoffel Transformations 20.5 Poisson Integral Formulas		(20 )
16				
17		19.1 Sequence and Series		
18		19.2 Taylor Series		
19		19.2 Taylor Series, 19.3 Laurent Series		

(Week)	(Instructor)	(Topic & Content)	(Student Assignment)	가 (Additional Description & Instructor Assignment)
20		19.3 Laurent Series		
21		19.4 Zeros and Poles		
22		19.5 Residues and Residue Theorem		
23		19.6 Evaluation of Real Integrals		
24		19.6 Evaluation of Real Integrals		* Quiz (     )
25		20.1 Complex Function as Mappings		
26		20.2 Conformal Mapping		
27		20.2 Conformal Mapping		
28		20.3 Linear Fractional Transformations		
29		20.4 Schwarz-Christoffel Transformations		
30		20.5 Poisson Integral Formulas		
31		Final Examination		
32		Final Examination		
[6] (Guide to Learning)				
- 가 .				
- 가				
-				
(Previous Exam Samples)				
< 가 >(<Download Additional Sample>)				
< >				
(Engineering Education)				
(Learning Outcomes)				
: 50 : 40 : 10				
(Title)				

\_\_\_\_\_ (Objective)

\_\_\_\_\_ (Restrictions)

\_\_\_\_\_가 (Assessment Method)

71 【 】 6 47 【 】

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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. : , , , , 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