

	2024		1		DISU361		01
							3-0-3
	EECE261( )						
	( 11:00 12:15 ) -						
E-Mail	WHONG@POSTECH.AC.KR			Homepage	HTTP://MAD.POSTECH.AC.KR		
					054-279-2366		
Office Hours	Anytime based on prearrangement.						
<p>Dear Students,#</p> <p>As of 2023, EECE361 class curriculum will undergo a complete makeover and incorporate various updates to provide a more hands on learning experience. The class is aimed to providing a taste of wide-ranging applications of electromagnetics!#</p> <p>#</p> <p>You will be able to learn the followings after taking this class:#</p> <ul style="list-style-type: none"> <li>- How does a 5G smartphone work?#</li> <li>- How to design your own microwave radar!#</li> <li>- Why WiFi works in Space#</li> <li>- Deep Sea wireless communication for Nuclear submarines#</li> <li>- etc</li> </ul>							
/							
<p>What you need to know in advance:#</p> <p># Fundamental laws of electricity#</p> <p># Differential equations#</p> <p># Vector calculus#</p> <p># Fields and waves#</p> <p>#</p> <p>(We will review the materials above in the first 1-2 weeks of the semester)</p>							
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<p>Exams: Exams are closed book. Calculators, laptop computers, tables of integrals, etc. are not permitted. You are allowed on</p>							

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One sheet of notes (both sides) for each midterm exam. The notes must be hand-written on standard size (8.5"x11") paper, reduced size photocopying is not permitted. Tentative dates for the midterms: #

Midterm I Late March (Subject to further adjustment) #

Midterm II Late April (Subject to further adjustment) #

Final: Late May #

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No make up exam will be given (unless permission is granted in advance by the instructor). #

Grading: #

Midterm I 20% #

Midterm II 20% #

Projects or Final 30% #

Homework 30%

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				ISBN
Fundamentals of Applied Electromagnetics	Fawwaz T. Ulaby	Pearson	2015	1292082445
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Reference: #

1. #

Field and Wave Electromagnetics (2nd Edition) #

David K. Cheng #

Addison Wesley #

978-0201128192 #

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2. #

Microwave and RF Design of Wireless Systems #

David M. Pozar #

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John Wiley & Sons, Inc. #

ISBN: 0-471-33282-2

Tentative Course Schedule (Subject to Change):#

1. Introduction to Waves and Phasors#
2. Transmission Lines#
3. Vector Analysis#
4. Magnetostatics#
6. Maxwell's Equations#
7. Plane-wave propagation#
8. Wave Reflection and Transmissions#
9. Radiatoin and Antennas#
10. Statellite Communications. Wireless systems, Sensors

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Homework Assignments#

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# Notebook to archive notes, tests, homework, etc. #

# Scientific calculator (TI#85 or equivalent)#

# 30 cm ruler, compass, and colored pencils#

# Access to a computer with MATLAB and internet#

# Show all work. Only use calculator for basic#

arithmetic. #

# Homework is due at the start of lecture. #

# No late assignments accepted. #

# DO YOUR OWN WORK!!#

Homework Format#

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# Must be submitted as a single hard#copy document. No electronic submissions.#

# Must include a cover page#

# Course info, student name, assignment number, due date, etc.#

# No work should appear on cover page.#

# Problems must be placed in proper order.#

# Work must be neat and well organized.#

# Finish your calculations.#

# Show all work or answer will be graded as incorrect.#

# Final answers must be boxed or answer will be graded as incorrect.#

# Do not box intermediate results or answer will be graded as incorrect.#

# Include proper units or answer will be graded as incorrect.#

# Homework must be stapled at upper#left corner. No additional binding.#

# Single#sided pages are preferred, but not required except when using engineering

Dear students,#

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During Spring 2023, there will be at 3 week period in which our class will be online due to business travel arrangements that must be attended. I apologize in advance for any inconvenience and will ensure that minimum disruption occurs.