

## SYLLABUS

<i>Classification</i>	Elective	<i>Course No.</i>	15407	<i>Hrs.: E. Credits</i>	3:0:3	<i>Instructor</i>	Kangwook Kim
<i>Course Title</i>	<i>Korean</i>	반도체 및 전파공학 특론					
	<i>English</i>	Special Topics on Semiconductor Optoelectronics & Microwave Electronics					
<i>Course Outline</i>							
This course covers topics in antenna design automation. Fundamental theories of electromagnetism, antennas, optimization, genetic algorithms, and method of moments are covered. Computer simulation softwares, such as							
<i>Prerequisite</i>		None					
<i>Textbook and References</i>		C. A. Balanis, "Antenna Theory: Analysis and Design," 3rd ed., Wiley-Interscience, 2005. ISBN: 0-471-66782-X					
<i>Weekly Course Schedule</i>							
<i>Calendar</i>	<i>Description</i>						<i>*Remarks</i>
<i>1st week</i>	Maxwell's equations						Jan. 4
<i>2nd week</i>	Antenna fundamentals						Jan. 6
<i>3rd week</i>	Dipole antennas						Jan. 11
<i>4th week</i>	Loop antennas and other wire antennas						Jan. 13
<i>5th week</i>	Introduction to NEC						Jan. 18
<i>6th week</i>	Fundamentals of optimization						Jan. 20
<i>7th week</i>	Antenna design using NEC & Matlab						Jan. 25
<i>8th week</i>	Review and midterm exam						Jan. 27
<i>9th week</i>	Fundamentals of MoM						Feb. 1
<i>10th week</i>	Introduction to FEKO						Feb. 3
<i>11th week</i>	Antenna design using FEKO & Matlab						Feb. 8
<i>12th week</i>	Introduction to the genetic algorithm						Feb. 10
<i>13th week</i>	Antenna design automation						Feb. 15
<i>14th week</i>	Design automation of wire antennas						Feb. 17
<i>15th week</i>	Design automation of other antennas						Feb. 22
<i>16th week</i>	Review and final exam						Feb. 24

\* If there will be experiments, mark it in the "Remarks".

*Instructor*    Kangwook Kim

*Dept. Chair*    Wang, Se-Myung



## SYLLABUS

<i>Classification</i>	Required	<i>Course No.</i>	00006	<i>Hrs.: E: Credits</i>	3:00:00	<i>Instructor</i>	John McDonald
<i>Course Title</i>	<i>Korean</i>	영어 1 : 영작문					
	<i>English</i>	English I : Writing & Grammar					
<i>Course Outline</i>							
Course Description:							
<i>Prerequisite</i>		Score of 'Unsatisfactory on EDT; Special Instructor Permission					
<i>Textbook and References</i>		English I Writing & Grammar original text to be purchased from the GIST Library. Additional materials will be distributed to students as required.					
<i>Weekly Course Schedule</i>							
<i>Calend</i>	<i>Description</i>						<i>*Remarks</i>
<i>1st week</i>	Get to know you; Orientation; Previous learning experience; Expectations; Self-assessment/Goal-setting; Email English						Email English & Goal-Setting
<i>2nd week</i>	Reading comprehension/Basic 'position' essay; Grammar Review + Article Usage Practice; Writing and Vocabulary Review; Paragraph Writing -- 'Topic Sentences'						
<i>3rd week</i>	Sentence Construction I; Sentence Construction II; Paragraph Structure/Organization + Cohesion; Cohesion Group Discussion + 'Solo' (Practice) Assignment						Cohesion Paragraph
<i>4th week</i>	Summary Writing (Paper-based); Summary assessment; 'Job Search' unit intro; CV Writing						Summary (In class)
<i>5th week</i>	Cover Letter Writing; Job Application consultations; Essay Writing (Chronological); Essay Writing II (Logical Division of Ideas); Essay Writing II (Comparison & Contrast Order); Personality Comparison/Contrast Final						Job Application Documents
<i>6th week</i>	Consultations for Final Project; Final In-class Assessments						Final Project; Final In-class Assessments

**\* If there will be experiments, mark it in the "Remarks".**

**Instructor : John McDonald (Seal)**

**Dept. Chair (Seal)**

## SYLLABUS

<i>Classification</i>	Required	<i>Course No.</i>	00007	<i>Hrs.: E: Credits</i>	3:00:00	<i>Instructor</i>	John McDonald
<i>Course Title</i>	<i>Korean</i>	영어 1 : 영작문					
	<i>English</i>	English I: Listening and Speaking					
<i>Course Outline</i>							
Course Description:							
<i>Prerequisite</i>		Score of 'Unsatisfactory on EDT; Special Instructor Permission'					
<i>Textbook and References</i>		English I Speaking & Listening original text to be purchased from the GIST Library. Additional materials will be distributed to students as required.					
<i>Weekly Course Schedule</i>							
<i>Calendar</i>	<i>Description</i>					<i>*Remarks</i>	
<i>1st week</i>	Get to know you Orientation; Previous learning experience; Expectations; SILL Self-Assessment; Goal Setting; Self Assessment Presentation					Goal-setting Presentation	
<i>2nd week</i>	Talking; 'Egg-Drop' In-class Activity; Presentation Basics (Personal Skills); Preparing a Presentation; PPT Materials Development						
<i>3rd week</i>	Preparation for 'Story-Telling'; 'Story Boards' and 'Dream' Presentation Instructions;					My Dream' Presentation	
<i>4th week</i>	Culture and Cultural Differences; Types of Phobias + Phobia Presentation Guidelines;					Phobia Presentation	
<i>5th week</i>	Poster Presentation Guidelines; 'Konglish' Overview; Final (Recruiting) Presentation I: Gwangju					Poster Presentations	
<i>6th week</i>	Final (Recruiting) Presentation II: 'GIST'; Final (Recruiting) Presentation III: 'Your Lab' + Materials Development; Final Assessments					Recruiting Presentation; Final Listening Test	
<i>7th week</i>							
<i>8th week</i>							
<i>9th week</i>							
<i>10th week</i>							
<i>11th week</i>							
<i>12th week</i>							
<i>13th week</i>							
<i>14th week</i>							
<i>15th week</i>							
<i>16th week</i>							

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**Instructor : John McDonald (Seal)**

**Dept. Chair (Seal)**