Course Information		
Course title	Electromagnetics (I)	
Semester	110-1	
Designated for	DEPARTMENT OF ELECTRICAL ENGINEERING	
Instructor	CHUN-HSING LI	
Curriculum Number	EE2010	
Curriculum Identity Number	901 25110	
Class	05	
Credits	3.0	
Full/Half Yr.	Half	
Required/ Elective	Required	
Time	Monday 3,4(10:20~12:10) Tuesday 7(14:20~15:10)	
Remarks	The upper limit of the number of students: 50.	
Ceiba Web Server	http://ceiba.ntu.edu.tw/1101EE2010_05	
Course introduction video		
Table of Core Capabilities and Curriculum Planning	Table of Core Capabilities and Curriculum Planning	
Course Syllabus		
Please respect the intellectual property rights of others and do not copy any of the course information without		
permission		
Course Description	<ul> <li>This course will introduce the essential elements of electromagnetics for electrical and computer engineering, including the following topics:</li> <li>1. Vectors and Fields</li> <li>2 Maxwell's Equations in Integral Form</li> </ul>	
	<ol> <li>Maxwell's Equations in Differential Form, and Uniform Plane Waves in Free</li> <li>Space</li> <li>Fields and Waves in Material Media</li> <li>Electromagnetic Potentials and Topics for Circuits and Systems</li> </ol>	
Course Objective	The purpose of this course is to let students understand the fundamentals of electromagnetics and know how to use them for practical applications.	
	(全系統一的標準) 1. Prerequisites: (1) Physics.	

		(2) Calculus.
Course Req	uirement	<ul> <li>2. Grading (Total: 105%)</li> <li>(1) Midterm exam: 40% (Ch 1.1 ~ Ch 3.3)</li> <li>(2) Final exam: 40% (Ch 3.4 ~ Ch 5.3, Ch 5.6 ~ Ch 5.7, Ch 5.4 ~ Ch 5.5 will be taught in EM(II))</li> <li>(3) Homework: 20%</li> <li>(4) 期末參加全國電磁能力測驗: 5% (志願參加, 未參加不扣分, 參加者依考試 中4 4 100 5 (4))</li> </ul>
Office I	Jours	成績、外加0-3万)
	Tours	Appointment required. Note: By appointment.
References		<ul> <li>Textbook: N. N. Rao, Elements of Engineering Electromagnetics, 6th ed., 2004.</li> <li>References:</li> <li>1. B. M. Notaros, MATLAB-Based Electromagnetics, 2014.</li> <li>2. D. K. Cheng, Field and Wave Electromagnetics, 2nd ed., 1989.</li> </ul>
Designated reading		待補
Grading		
Progress		
Week	Date	Topic