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<form> Guing Numbridie Internet 2013 Year Internet 2013 Stable C Internet 2013 Stable C Internet 2013 Carlad C Internet 2013 Stable C Internet 2014 Stable C Internet 2014</form>			••••		-1-1					
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Students will learn basic principles and analysis methods for electromagnetic induction and radiation.Course Objectives and Summary / Learning Golasis- Basic theories and analysis methods for electromagnetic fields in vacuum and dielectri/magnetic media: Maxwell'sequations, plane wave and its reflection/transmission, dielectrie/magnetic media and their boundary conditions etc. - Basic principles and analysis methods for electromagnetic induction and rediation: Faraday's law, radiation from district diole etc. Students are expected to develop following skills and views after completion of the class. - Mathematical skills for dealing with electromagnetic induction and radiation. - Understanding of basic electromagnetic phenomena from physical point of view.Relevance to Other Subjects/Considerations for Taking the Class (J)	Summary/ Learning Goals	5								
Subjects/Considerations for Taking the Class (J) I Relevance to Other Subjects/Considerations for Taking the Class I Course Description (J) I Relevance to Other Subjects/Considerations for Taking the Class I Relevance To Other Subjects/Considerations for Taking the Class I Review of Electricity and Magnetism, I I Review of Electricity and Magnetism, II I////////////////////////////////////	-	Students will learn Summary of class: Basic theories and Maxwell'sequations, conditions etc. Basic principles ar electric dipole etc. Students are expected Mathematical skill Mathematical skill	 Students will learn basic principles and analysis methods for electromagnetic induction and radiation. Summary of class: Basic theories and analysis methods for electromagnetic fi elds in vacuum and dielectric/magnetic media: Maxwell'sequations, plane wave and its reflection/transmission, dielectric/magnetic media and their boundary conditions etc. Basic principles and analysis methods for electromagnetic induction and radiation: Faraday's law, radiation from electric dipole etc. Students are expected to develop following skills and views after completion of the class. Mathematical skills for dealing with electric/magnetic fi elds in vacuum and dielectric/magnetic media. Mathematical skills for dealing with electromagnetic induction and radiation. 							
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Electricity and Magnetism	E. M. Purcell	Berkeley						
Introduction to Electrodynamics (2nded.)	D. J. Griffiths							
The Feynman Lectures on Physics (Volume 2)	R. P. Feynman							
Classical Electrodynamics (2nded.)	J. D. Jackson							
Electromagnetics (2nded.)	J. A. Edminister							
URL								
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Office Hours(J)								
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Contact: Please insert ' in the email address.	@'							
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Practical Skill/Hands-on Class								
Other Comments/Instructions	style from in person 2. This class is for s law, Ampare's law a Although the know join this class after 3. Handouts are use 4. Preparation and r 5. Office hours are T	 The lecture will be delivered in real time and in person. Announcement on the lecture such as switching the lecture style from in person to online will be delivered via Google Classroom. This class is for students who has learned basic of electromagnetics such as Coulomb's law, Gauss's law, Biot-Savart law, Ampare's law and Faraday's law. Although the knowledge will be reviewed at the first one or two times of this classes, students are recommended to join this class after they have studied the basic of electromagnetics. Handouts are used in this class, which can be downloaded via Google Classroom. Preparation and review are strongly recommended. Office hours are TBD by an appointment in advance via e-mail or other approach. The contact information for the instructor will be given in the class. 						
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One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside of class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.