Course Instructors F. Danang	r Electrical Engineering (Course + Tutorial) g Wijaya; Eka Firmansyah; Oyah Wahyunggoro;
Course Instructors F. Danan	
	ilo Wijaya; Bambang Sugiyantoro; Suharyanto
Course Type Required	
	nce & Math
	nutes per Week
	e is a physic freshman course with emphasis in the
fundament	tal concepts, laws and theories of electromagnetism.
The explan	nation of these concepts is tailored to be relevant in
	ext of electrical engineering and information
technology	7.
Prerequisites Courses -	
Covered Student Outcome Fundame	ental Engineering Knowledge (a)
 electricity and magneti 2. Students are able to and magnetism into th 3. Students are able to a electrical and magnetic 4. Students are able to 	translate natural phenomena related to electricity e principles of physics. analyze and solve simple problems in the field of c using the method of integral-differential calculus analyze and interpret data or graphs related to tism and draw conclusions related to the laws of c physics. rostatics
11. Inductance 12. Electric material	
Direct Asessment	
Direct Asessment Plan	Measured Learning Outcome
Mid Exam	LO1, LO2
Final Exam	LO3, LO4
Quiz	LO1, LO2
Indirect Assessment Questionnaire and direct co	ommunication
References [1] Halliday, D., Resnic	ek R., 2013, Physics 9th Edition, John Wiley
& Sons, Inc,	
[2] Ohanian, 1994, Principles of Physics, W. W. Norton & Company,	
New York	
[3] Young & Freedman, 2000, Universitry Physics, Addison-Wesley	
Publishing Co.	