



العدد :

التاريخ : / / ٢٠

Course number and name	EE 2100: Circuits III
Credits and contact hours	3 credits and 4 hours
Course coordinator	
Textbook	Fundamentals of Electric Circuits, C. K. Alexander and M. N. O. Sadiku, 4 th edition, 2009
Course Information	a. Prerequisites: EE 1110 Circuits II b. Required
Topics to be covered	-Three phase system and thier power system analysis - Magnetically coupled networks, mutual inductance, energy analysis, ideal transformer -Variable frequency network performance, variable frequency response analysis, resonance circuits, filter networks, Bode plots. -Two port networks, admittance/impedance/ hybrid/ transmission parameters, conversions -The Laplace transform and its application, definition, singularity functions, transform pairs/properties, inverse Laplace, circuit elements, analysis and synthesis techniques. -Operational amplifiers

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