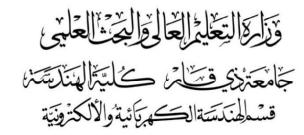
## Ministry of Higher Education and Scinetific Research Thi-Qar University Collage of Engineering Electrical and Electronic Engineering Dept





العدد:

التاريخ : / / ٢٠

Course number and name	EE 1110: Circuits II
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 <sup>th</sup> edition, 2009
Course Information	a. Prerequisites: EE 1100: Circuits I
	b. Required
Topics to be covered	- Capacitance and inductance
	- Sinusoids and phasors
	- Sinusoidal steady state analysis
	– AC circuit power
	- RC, RL, and RLC circuit: transient and steady state response
	and forced and natural response to step input.
	- First and second order transient circuits (RL, RC, RLC): first
	and second order response
	– Steady state power analysis: complex power, power factor
	and pf correction.

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