



العدد :

التاريخ : / / ٢٠

<b>Course number and name</b>	<b>EE 4200: Electronics III</b>
<b>Credits and contact hours</b>	3 credits and 4 hours
<b>Course coordinator</b>	
<b>Textbook</b>	Microelectronic Circuits w/CD (6th edition). Sedra/Smith, 2010
<b>Course Information</b>	a. Prerequisites: EE 3200 Electronics II c. Required
<b>Topics to be covered</b>	– Review of the main topics in Electronics II –The operational amplifier: integrators, differentiators, application to CMOS and BiMOS circuits, Active Filters: basic filter response and characteristics (low pass, high pass, band pass, and band stop) –The Oscillator and its feedback, oscillators with RC and LC feedback circuits –Power Amplifiers: class (A, B, AB, and C) –CMOS digital logic circuit, dynamic operation of CMOS, Pseudo-NMOS logic circuit, pass-transistor logic circuit, dynamic MOS logic circuit, emitter-coupled logic, BiCMOS digital circuit

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