

EETE 4140	LINEAR INTEGRATED CIRCUITS	3 Credit Hours
Prerequisite	EETE 3102	
Goal	To discuss and understand the concepts of integrated circuits, their functioning and applications in the telecommunications field.	
Objectives		Outcomes
<p>This course should enable the student to understand :</p> <ol style="list-style-type: none"> 1. The basic manufacturing process of linear integrated circuits 2. applications of Opamp 3. Various applications of linear ICs in telecom field 4. Special function ICs used in telecom area. 		<p>A student who completes the course should be able to:</p> <ol style="list-style-type: none"> 1. Manufacturing process of IC 2. Linear and non linear circuits using opamp like inverting, non inverting, differentiator, integrator instrumentation amplifier, precision rectifier etc. 3. PLL, AM , PM and FSK modulator and demodulator , frequency synthesizer etc. 4. Sample and hold circuits, A/D and D/A converter 5. Voltage regulator switched capacitor filter, tuned and power amplifier, video amplifier, opto coupler etc.