

<b>Module Title:</b>	<b>Analogue Circuits And Modelling – Semester 7</b>
<b>Academic year:</b>	2009 – 2010
<b>Credit Value:</b>	3 – Mandatory
<b>Pre- requisites:</b>	None
<b>Assessment:</b>	70% Final Exam, 30% Continuous Assessment (CA)
<b>Aims</b>	To study the fundamentals (e.g.; Amplification [small and large signal filtering; oscillation) of practical analogue circuits, and verify using modern CAD simulation techniques.
<b>Module Content</b>	<ul style="list-style-type: none"> <li>• Amplifier Circuits;</li> <li>• Oscillators;</li> <li>• Filters;</li> <li>• Frequency response to various amplifier cascades.</li> </ul>
<b>Intended Learning Outcomes:</b>	<p><b>On successful completion of the module the student will be expected to be able to:</b></p> <ol style="list-style-type: none"> <li>1. Be able to explain the operation of, analyse and design a range of analogue systems (e.g. small signal and large signal amplifiers; passive and active filters; oscillators; high frequency amplifiers; using analytical methods.</li> <li>2. Be able to construct, perform measurements on and evaluate a range of analogue circuits using a SPICE package.</li> </ol>