



<b>Course:</b> M.Tech	<b>Name of Faculty:</b> Arun A. Balakrishnan
<b>Topic:</b> 18-437-0104 – Communication Laboratory	<b>Semester:</b> I
<b>Lecture Hall:</b> 211	<b>Timings:</b> Slot G/H

<b>Week and date</b>	<b>Lecture topics</b>	<b>Assignments</b>	<b>Remarks</b>
Week 1 (8 <sup>th</sup> July 19)	Familiarisation of OCTAVE/SCILAB Communication Tool Box		
Week 2 (15 <sup>th</sup> July 19)	Familiarisation of SDR		
Week 3 (22 <sup>nd</sup> July 19)	<b>OCTAVE/SCILAB EXPERIMENTS</b> ASK, PSK, FSK Modulator & Demodulator DSB-SC Modulator and Demodulator		
Week 4 (29 <sup>th</sup> July 19)	<b>OCTAVE/SCILAB EXPERIMENTS</b> PAM, PWM & PPM PCM Modulation & Demodulation Delta Modulation		
Week 5 (5 <sup>th</sup> Aug 19)	<b>OCTAVE/SCILAB EXPERIMENTS</b> QPSK Modulator & Demodulator DPSK Modulator & Demodulator		
Week 6 (12 <sup>th</sup> Aug 19)	<i>First Internals</i>		
Week 7 (19 <sup>th</sup> Aug 19)	Familiarisation of GNU Radio and toolkit available for communication		
Week 8 (26 <sup>th</sup> Aug 19)	<b>GNURadio EXPERIMENTS</b> ASK, PSK, FSK Modulator & Demodulator DSB-SC Modulator and Demodulator		
Week 9 (2 <sup>nd</sup> Sep 19)	<b>GNURADIO EXPERIMENTS</b> PAM, PWM & PPM PCM Modulation & Demodulation Delta Modulation		
<i>Onam Vacation</i>			
Week 10 (17 <sup>th</sup> Sep 19)			
Week 11 (23 <sup>rd</sup> Sep 19)	<b>GNURADIO EXPERIMENTS</b> QPSK Modulator & Demodulator DPSK Modulator & Demodulator		
Week 12 (30 <sup>th</sup> Sep 19)	<b>GNU RADIO &amp; USRP OFDM Implementation</b>		
Week 13 (10 <sup>th</sup> Oct 19)	<b>GNU RADIO &amp; USRP OFDM Implementation</b>		
Week 14 (15 <sup>th</sup> Oct 19)	<b>GNU RADIO &amp; USRP OFDM Implementation</b>		
Week 15 (21 <sup>st</sup> Oct 19)	<b>Lab Report Submission &amp; Evaluation</b>		
Week 16 (28 <sup>th</sup> Oct 19)	<i>Second Internals</i>		
Week 17 (5 <sup>th</sup> Nov 19)	<i>Publication of Sessional</i>		