

Course: B.Sc(H) Electronics III semester
Subject: Electronic Circuits

Month	Unit	Topics covered
12.08.2016-20.08.2016	I	Unit 1:Ideal diode- equivalent circuit, dc loadline and q point, Clipping and clamping circuits
22.08.2016-27.08.2016	I	Rectifiers, HWR, FWR, working, circuits and waveforms. Filters, its types, circuits, explanation, shunt capacitor filters
29.08.2016-03.09.2016	I	Zener diode regulator
	II	Review of BJT configuration and Hybrid parameters
02/09/2016		Test 1: Syllabus- Unit 1
05.09.2016-10.09.2016	II	DC load line, operating point, thermal runaway, stability factors. Transister Baising: fixed bais, collector to base bais, voltage divider bais, circuits and working.
12.09.2016-17.09.2016	II	Transister as switch, Darlington pair, hybrid model of CE configuration
19.09.2016-24.09.2016	II	Quantative study of frequency response of a CE amplifier, Cascaded CE amplifier, RC coupled amplifier
26.09.2016-01.10.2016	III	Concept of feedback, negative and positive, advantages and disadvantages. Voltage (series and shunt) , current (series and shunt), feedback amplifiers. Gain, input and output impedance
30/09/2016		Test 2: Syllabus Unit 2
03.10.2016-08.10.2016	III	Barkhausen criteria, phase shift oscillator, Colpitts oscillator and Hartley oscillator
10.10.2016-15.10.2016	IV	Unit 4: MOSFET circuits, depletion and enhancement MOSFETs, Baising, small signal, common source amplifier circuit analysis. CMOS circuits
17.10.2016-22.10.2016	IV	Power amplifier, classification, Class A, B, C and their comparison
21/10/2016		Test 3: Syllabus Unit 3
24.10.2016-29.10.2016	IV	Operation of various power amplifiers
31.10.2016-05.11.2016	IV	Single tuned amplifier, circuit, working, frequency response, limitation and applications
07.11.2016-12.11.2016		Doubt classes