

THIRD YEAR

Communication Electronics -I	COE306
Prerequisite: COE209 and COE210	(3-2-1-2)

Oscillators: Positive feedback and oscillation, Stability of Oscillation, Sinusoidal oscillator, Phase-shift Oscillator, Wien Bridge Oscillator, LC-Oscillator, Crystal Oscillator. Large-Signal Amplifier: Amplifier classification, Class A, Class B, Class AB, Class C, Power field-effect Transistor, Integrated Circuit power amplifier, Push-pull. OP-AMP amplifiers, Integration using OP-AMP, differentiation using OP-AMP. Oscillators using OP-AMP, 555 timer and applications. voltage control oscillator using 555 timer.

Practical part: *Oscillators, Amplifiers, OP-AMP applications, 555-timer applications, voltage control oscillator.*