

List of Practicals
Analog Integrated Circuits

B.E. –III Electronics and Communication Semester VI (February 2008)

Index for Batch A

| Sr No | Practical Aim | Date | Sign |
|-------|--|------|------|
| 1. | Comparators using Operational amplifier: Zero Crossing Detector, Positive level Detector & Negative level detector using Inverting amplifier and Non inverting Amplifiers. | | |
| 2. | a)To design an Op Amp with feedback with gain of 10 for an inverting and 11 for Non-inverting amplifier b) To design summing amplifiers, averaging amplifier, scaling amplifier using OP-Amp. | | |
| 3. | To design and implement Differential Amplifier using one, two and three op-amps. | | |
| 4. | Design and implement differentiator circuits using OP-AMP for 5KHz frequency. | | |
| 5. | Design and implement integrator circuits using OP-AMP for 4KHz frequency. | | |
| 6. | To Design and implement Schmitt Trigger Ckt having $V_{ut} = 1V$ and $V_{lt} = -1V$, $\pm V_{sat} = \pm 10V$. | | |
| 7. | To design & Implement 1st order & 2nd order low pass filter with cutoff frequency = 5kHz | | |
| 8. | To Design and implement the Phase Shifter circuit to generate the phase shift of 135° and -135° . | | |
| 9. | To Design & implement Narrow Band Reject Filter for the 1KHz frequency. | | |
| 10. | Design half wave & full wave rectifier circuits. | | |
| 11. | Design sinusoidal RC Oscillators using OP-Amp: Wein bridge | | |
| 12. | Implement Square Wave Generator and triangular wave generator | | |
| 13. | Design Astable (75%, 50% and 25% duty cycle) and Monostable Multivibrator circuits using 555 timer IC | | |

List of Practicals
Analog Integrated Circuits

B.E. –III Electronics and Communication Semester VI (February 2008)

Index for Batch B

| Sr No | Practical Aim | Date | Sign |
|-------|--|------|------|
| 1. | Comparators using Operational amplifier: Zero Crossing Detector, Positive level Detector & Negative level detector using Inverting amplifier and Non inverting Amplifiers. | | |
| 2. | a)To design an Op Amp with feedback with gain of 5 for an inverting and 6 for Non-inverting amplifier b) To design summing amplifiers, averaging amplifier, scaling amplifier using OP-Amp. | | |
| 3. | To design and implement Differential Amplifier using one, two and three op-amps. | | |
| 4. | Design and implement differentiator circuits using OP-AMP for 4KHz frequency. | | |
| 5. | Design and implement integrator circuits using OP-AMP for 5KHz frequency. | | |
| 6. | To Design and implement Schmitt Trigger Ckt having $V_{ut} = 1V$ and $V_{lt} = -1V$, $\pm V_{sat} = \pm 10V$. | | |
| 7. | To design & Implement 1st order & 2nd order High pass filter with cutoff frequency = 5kHz | | |
| 8. | To Design and implement the Phase Shifter circuit to generate the phase shift of 120° and -120° . | | |
| 9. | To Design & implement Narrow Band Reject Filter for the 1KHz frequency. | | |
| 10. | Design half wave & full wave rectifier circuits. | | |
| 11. | Design sinusoidal RC Oscillators using OP-Amp: Wein bridge | | |
| 12. | Implement Square Wave Generator and triangular wave generator | | |
| 13. | Design Astable (75%, 50% and 25% duty cycle) and Monostable Multivibrator circuits using 555 timer IC | | |

