Galgotias College of Engineering and Technology 1, Knowledge Park-II, Greater Noida, 201306(Uttar Pradesh)

Department: Electronics and Communication Engineering

<u>KEC551-INTEGRATED CIRCUITS LAB</u> <u>LIST OF EXPERIMENT</u>

LIST OF EXPERIMENTS

- 1. Design the following using Op-Amp:
 - a) A unity gain amplifier.
 - b) An inverting amplifier with a gain of "A".
 - c) A non-inverting amplifier with a gain of "A"
- 2. Study and design Log and antilog amplifiers.
- 3. Voltage to current and current to voltage convertors.
- 4. Second order filters using operational amplifier for:
 - a) Low pass filter of cutoff frequency 1 KHz.
 - b) High pass filter of frequency 12 KHz.
- 5. Realization of Band pass filter with unit gain of pass band from 1 KHz to 12 KHz.
- 6. Study and design voltage comparator and zero crossing detectors.
- 7. Function generator using operational amplifier (sine, triangular & square wave).
- 8. Design and construct a stable multivibrator using IC 555 and
 - a) Plot the output waveform
 - b) Measure the frequency of oscillation
- 9. Design and construct a monostable multivibrator using IC 555 and
 - a) Plot the output waveform
 - b) Measure the time delay
- 10. Study the operation of analog to digital converters.
- 11. Study the operation of digital to analog converters.
- 12. Implement voltage controlled oscillator using IC566 and plot the waveform.

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LIST OF EQUIPMENT

Subject Code of the Lab: KEC551

Name of the Lab: INTEGRATED CIRCUITS LAB

S. No.	Name of Equipment
1	POWER SUPPLY
2	FUNCTION GENERTOR
3	DSO
4	LCR METER
5	CRO
6	Opamp IC-551
7	IC TESTER
8	Bread Board