
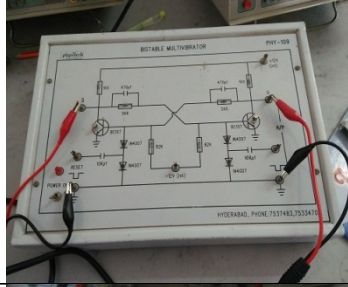

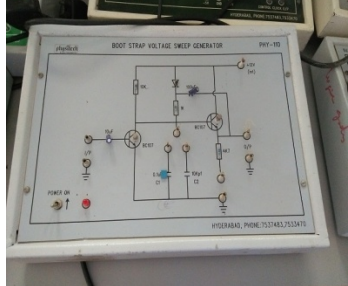

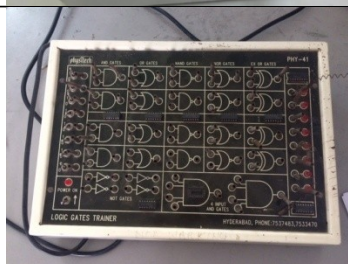

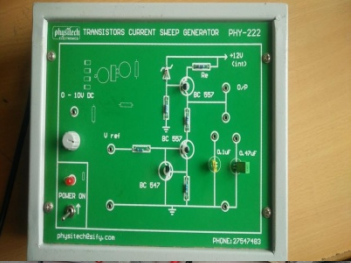






**SEM/YEAR** : II/II  
**LAB NAME/CODE** : PULSE & DIGITAL CIRCUITS LAB/EC407ES  
**LAB INCHARGE** : Mr. R KRISHNANAIAK  
**LAB ASSISTANT** : Mr. GOPAL

**LIST OF EXPERIMENTS:**

1. Linear Wave Shaping
  - a. RC Low Pass Circuit for different time constants.
  - b. RC High Pass Circuit for different time constants.
2. Non – linear wave shaping
  - a. Transfer characteristics and response of Clippers:
    - i) Positive and Negative Clippers
    - ii) Clipping at two independent levels
  - b. The steady state output waveform of clampers for a square wave input
    - i) Positive and Negative Clampers
    - ii) Clamping at reference voltage
3. Comparison operation of comparators
4. Switching characteristics of a transistor
5. Design a Bistable Multivibrator and draw its waveforms
6. Design a Astable Multivibrator and draw its waveforms
7. Design a Monostable Multivibrator and draw its waveforms
8. Response of Schmitt Trigger for loop gain less than and greater than one
9. UJT relaxation oscillator
10. The output voltage waveform of Boot strap sweep circuit
11. The output voltage waveform of Miller sweep circuit.
12. Pulse synchronization of an Astable circuit
13. Response of transistor current sweep circuit
14. Sampling gates
  - a. Response of uni-directional gate
  - b. Response of bi-directional gates using transistors
15. Study of logic gates.

S.N O	EQUIPMENT	QUAN TITY	SPECIFICATIO NS	PHOTOS
1	RESISTORS,CAPACITORS,UJT,BJT	400,50,15,30	JPNCE/ECE/PDC/COMP	
2	TRAINER KITS FOR MULTI VIBRATOR	6	JPNCE/ECE/PDC/MV	
3	SCHIMITT TRIGGER	2	JPNCE/ECE/PDC/ST	
4	BOOT STRIP SWEEP CIRCUIT	2	JPNCE/ECE/PDC/BS	
5	MILLER SWEEP CIRCUIT	2	JPNCE/ECE/PDC/MS	
6	DIGITAL IC's FOR LOGIC GATES	3	JPNCE/ECE/PDC/LG	

7	PULSE SYNCHRONIZATION OF ASTABLE CIRCUIT	2	JPNCE/ECE/PDC/PS	
8	TRANSISTOR CURRENT SWEEP CIRCUIT	2	JPNCE/ECE/PDC/TC	
9	SAMPLING GATES	2	JPNCE/ECE/PDC/SG	
10	REGULATED POWER SUPPLY	10	JPNCE/ECE/PDC/RPS	
11	FUNCTION GENERATORS	10	JPNCE/ECE/PDC/FG	
12	CRO'S	10	JPNCE/ECE/PDC/CRO	

13	BREAD BORDS	20	JPNCE/ECE/PDC/BB	
14	MULTIMETERS	9	JPNCE/ECE/PDC/MM	