**OSCILLATORS AND MULTIVIBRATORS**

**RC Phase Shift Oscillator**

 Built in fixed power supply of +12V @ 250mA

 Different values of capacitors are provided on Board to vary the output frequency.

 Each element of RC network shifts the phase by 60°

**Wein Bridge Oscillator**

 Built in fixed power supply of +12V @ 250mA

 Different values of capacitors are provided on Board to vary the output frequency.

**Hartley Oscillator**

 Built in fixed power supply of +12V @ 250mA

 Different values of capacitors are provided on Board to vary the output frequency.

**Colpitts Oscillator**

 Built in fixed power supply of +12V @ 250mA

 Different values of capacitors are provided  to vary the output frequency.

**UJT Relaxation Oscillator**

 Built in fixed power supply of +12V @ 250mA

 Built in Variable power supply of 0-12V @ 250mA

 Different values of resistors and capacitors to vary the output frequency.

**Voltage Controlled Oscillator using 566 IC**

 Built in fixed power supply of +12V @ 250mA

 VCO applications in ramp generation can be performed  with these circuits

 Different values of resistors and capacitors are provided to vary that control voltage and output frequency.

**Clipping and Clamping Circuits**

 Two Variable power supplies of 0-10V @ 250mA

**SCHMITT Trigger using Transistors**

 Built in fixed power +12V @ 250mA

**Transistor as a Switch**

 Built in fixed power +12V @ 250mA

 LED is given to observe on/off conditions.

**Astable Multivibrator using 555 IC**

 Built in fixed power supply +12V @ 250mA

 Different values of resistors and capacitors given to vary the output waveform.

 One external 555 configuration with IC is given on a board.

**Monostable Multivibrator using 555 IC**

 Built in fixed power supplies +12V @ 250mA

 Different values of resistors, capacitors and one 10KΩ potentiometer provided to vary the output frequencies.

**Monostable Multivibrators using Transistors**

 With built in fixed power supplies of +12V,-12V @ 250mA.

**Bistable Multivibrators using 555 IC Trainer**

 12V DC Power supply

 Different value capacitors & resistors

**Bootstrap Sweep Generator Circuit**

 With built in fixed power supplies of +12V @ 250mA.

**Astable Multivibrator using Transistors**

 Built in a fixed power supply of +12V @ 250mA

 Different capacitors are provided to vary output frequency.

**Multivibrators (3 in 1)**

 Fixed DC regulated power supply of +12V @ 250mA

 Output states can be observed by LEDs provided on board.

 Two NPN transistors are used.

**Crystal Oscillator**

 Built in fixed power supply of +5V

 Piezoelectri crystal is provided on board.