



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35

Accredited by NBA-AICTE and Accredited by NAAC – UGC with A++ Grade

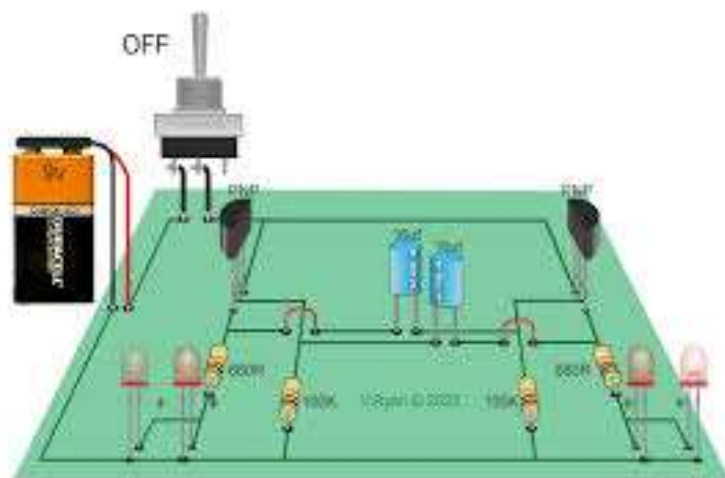
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



23EET104 / ANALOG ELECTRONICS CIRCUITS I YEAR / II SEMESTER

UNIT-IV: MULTIVIBRATOR

MONOSTABLE MV

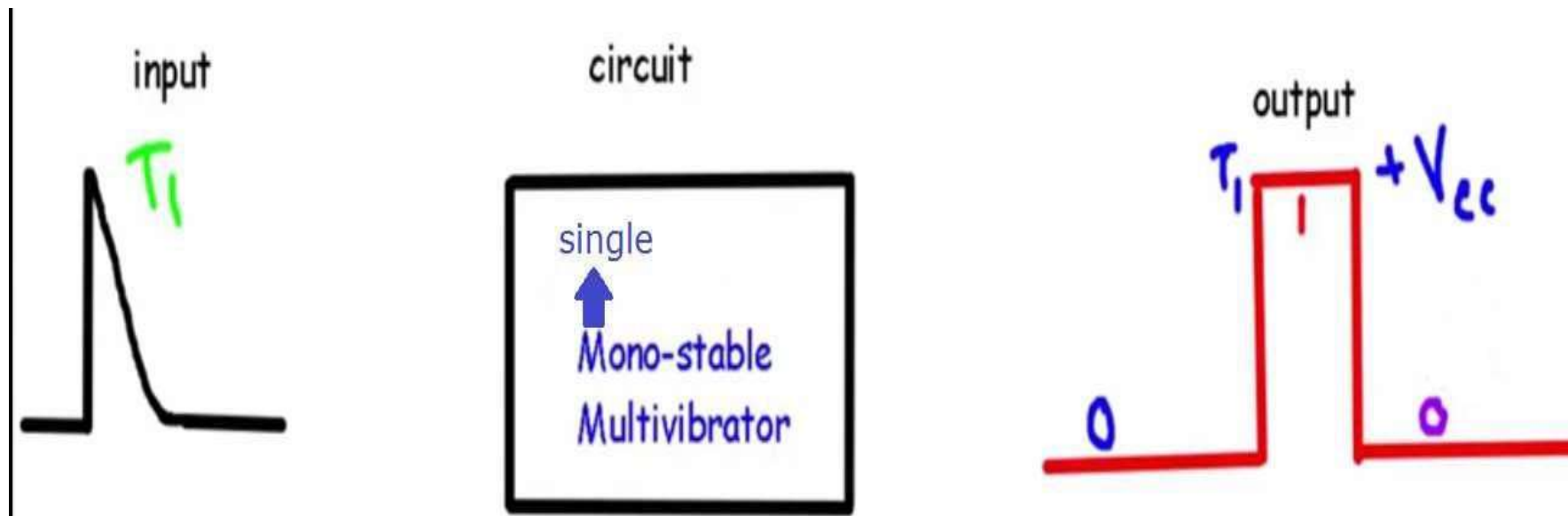




MONOSTABLE MULTIVIBRATOR

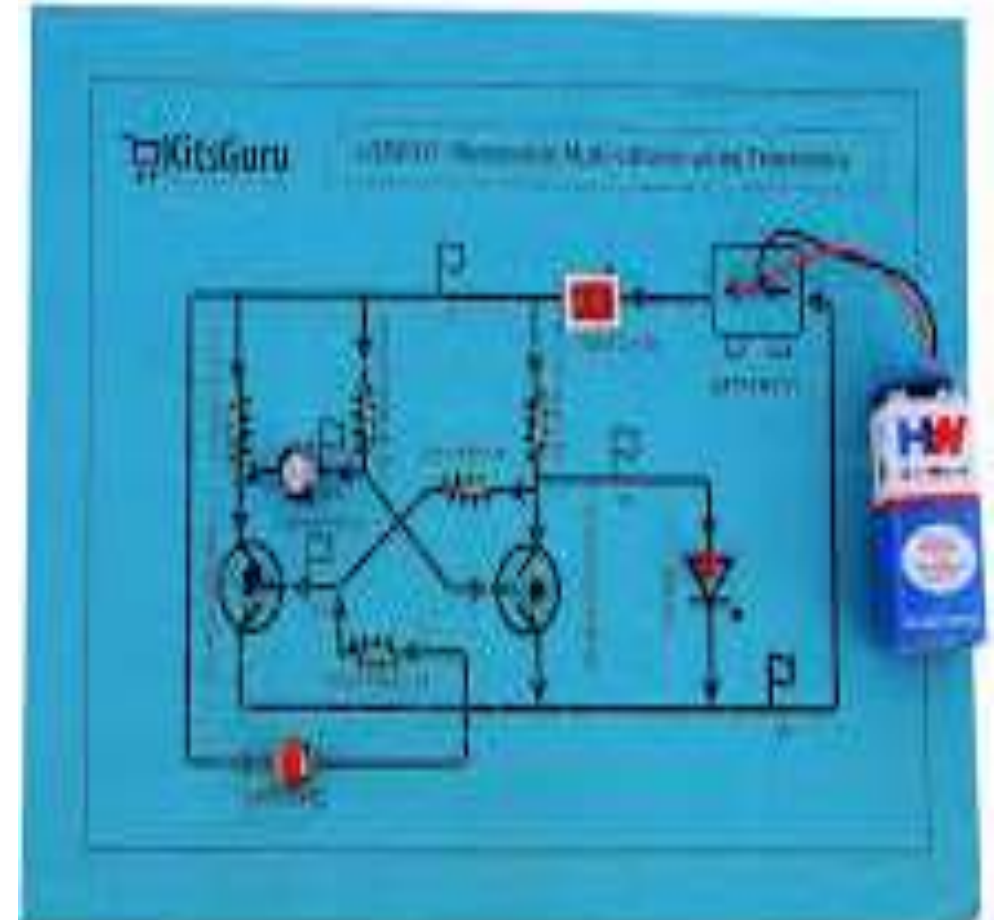
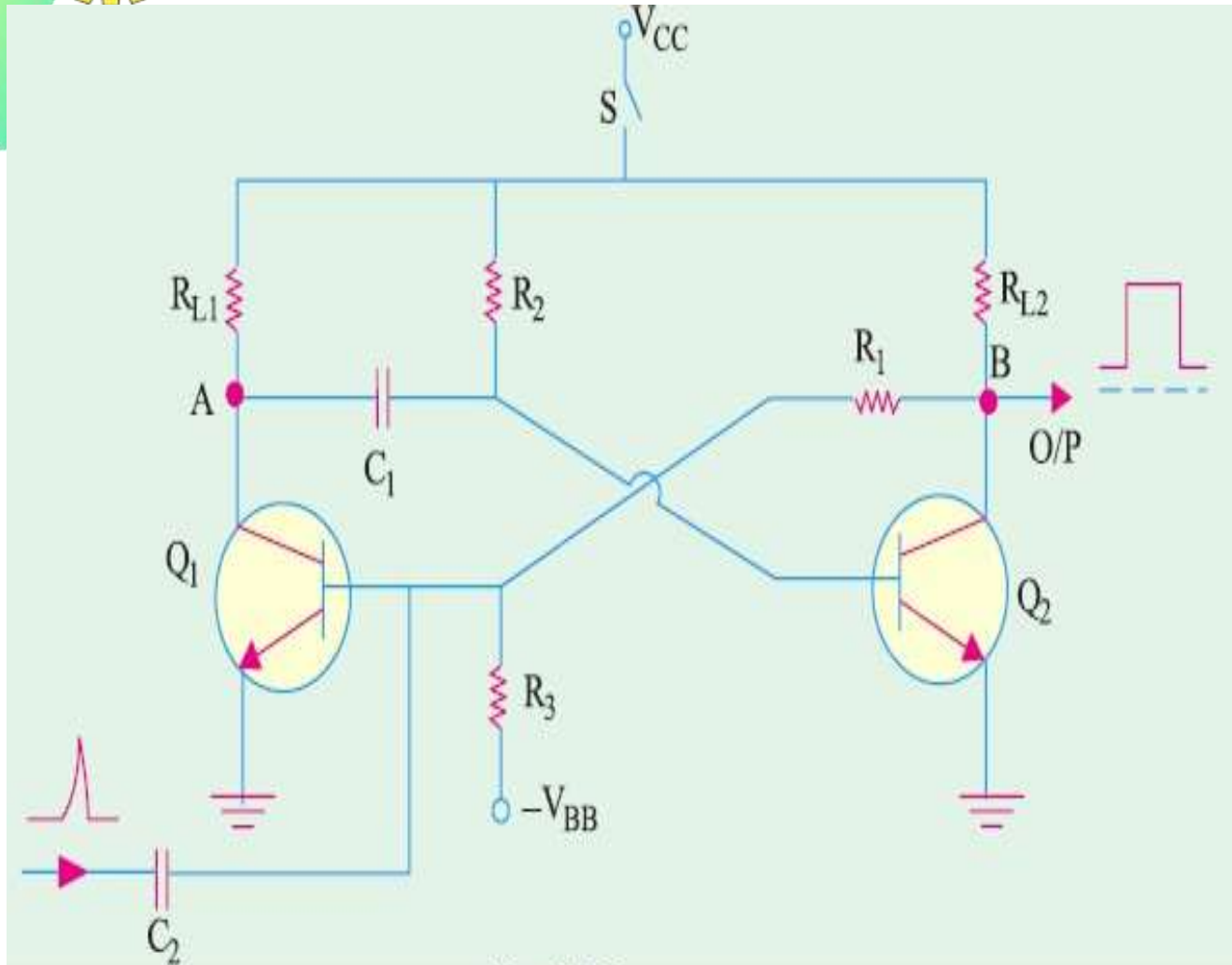


A Multivibrator which has **one stable state** and one temporary quasi-stable state and level transition depends on external triggering pulse is known as Monostable Multivibrator.





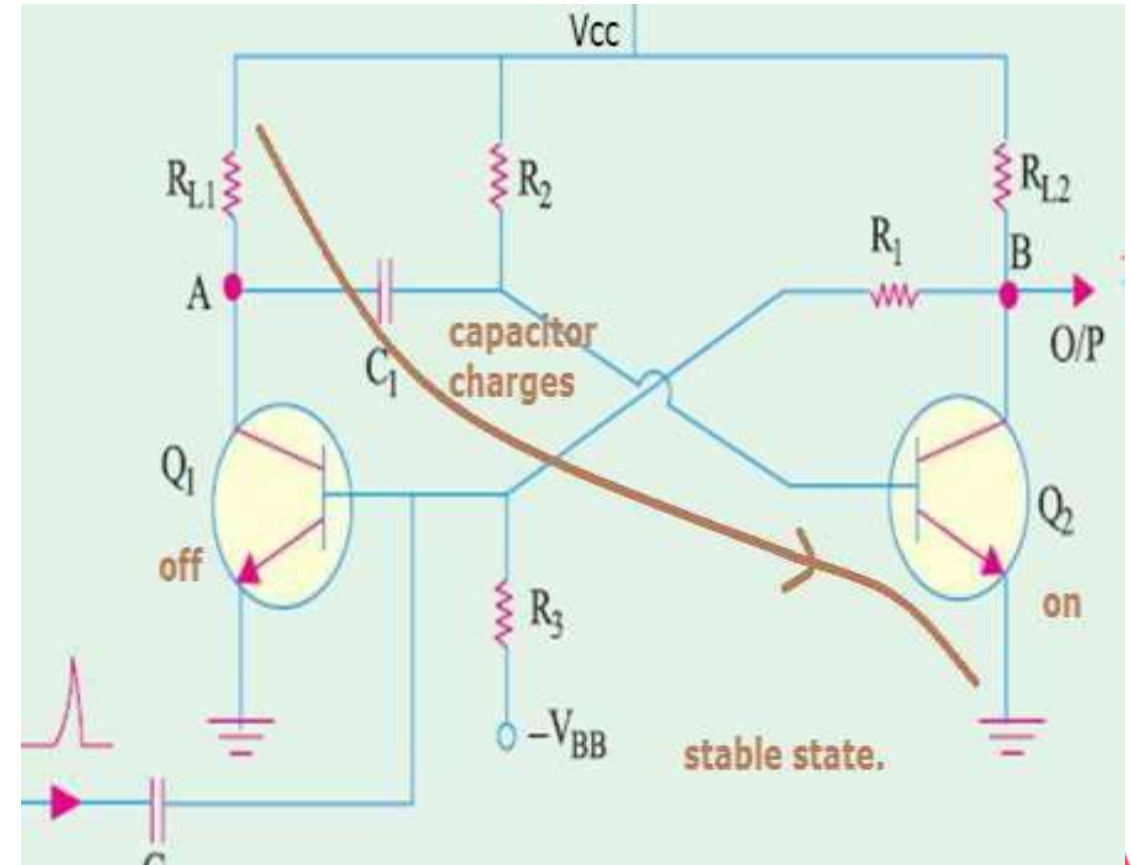
MONOSTABLE MULTIVIBRATOR





Contd.,

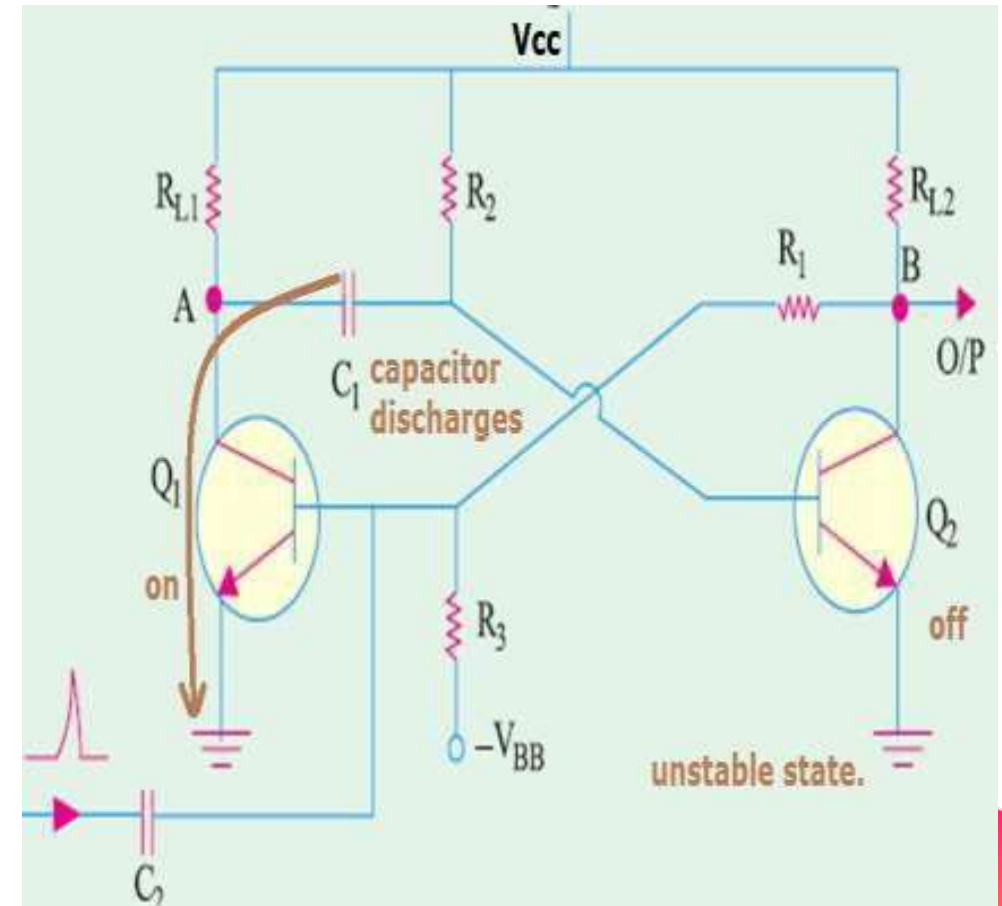
- ❑ When the circuit is switched ON, transistor Q_1 will be OFF and Q_2 will be ON.
- ❑ Capacitor C_1 gets charged during this state.
- ❑ When a positive trigger is applied to the base of transistor Q_1 it turns ON, which turns OFF the transistor Q_2





Contd.,

- ❑ Capacitor C_1 starts discharging during this state.
- ❑ Transistor Q_1 remains in ON state due the positive voltage from the collector of transistor Q_2 which is in OFF state.
- ❑ Transistor Q_2 remains in OFF state until the capacitor C_1 discharges completely.
- ❑ When the capacitor C_1 discharged completely, transistor Q_2 turns ON, which turns transistor Q_1 OFF.



APPLICATION - MONOSTABLE

Analog systems to control an output signal frequency.

To **synchronize the line and frame rate of television broadcasts.**

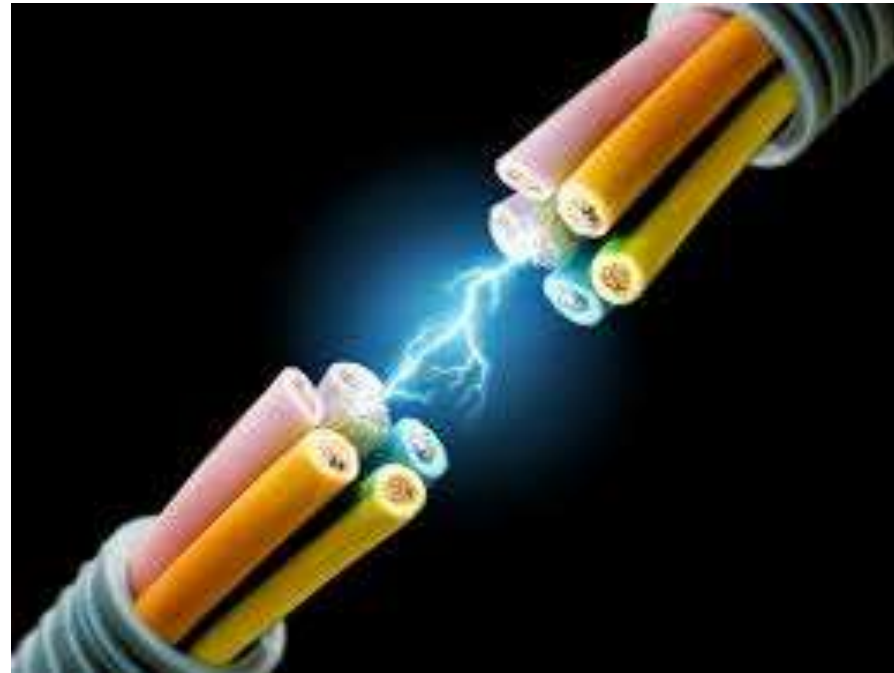
To hold output voltages in its unstable state for a certain period .

To moderate the tunes of different octaves with **electronic organs.**





RECAP....



...THANK YOU

