

ELECTRONIC CIRCUITS CURRICULUM – VAMA EDTECH

Sr. No	Topic	Learning outcome
1.	Introduction	Introduction to Electronic Circuits
2.	Basic Circuit	Make a LED glow in a circuit
3.	Series connection	Make LEDs glow in series connection
4.	Parallel connection	Make LEDs glow in parallel connection
5.	Controlling brightness of LED	Controlling brightness of LED using a potentiometer
6.	Capacitor	Learn the concept & working of Capacitor
7.	Capacitor in series	Learn the difference in values of the circuit with capacitors attached in series
8.	Capacitors in parallel	Learn how the Charge of capacitors increases when capacitors are attached in parallel
9.	Battery with capacitor	Learn to make your own battery
10.	Diode	Glow an LED using a Diode in forward biasing
11.	Touch sensor	Touch sensor using 555 timer
12.	Transistor	Learn to use a transistor as an amplifier
13.	Automatic Night light	Automatic night light using LDR
14.	Musical Bell	Learn to make a musical bell using IC
15.	Transistor & LED	Learn to make a Water level indicator
16.	Make a real time traffic light	Learn to make Traffic lights using 555 timer, IC & LEDs

Note:

- Includes the **Elektrify** Electronic Kit.
- Includes the PDF for the instructions of experiments .