L D COLLEGE OF ENGINEERING, AHMEDABAD

IT DEPARTMENT

PRACTICALS LIST

**SEMESTER: 3RD SUBJECT: DIGITAL ELECTRONICS (2131004)**

**AIM1: To study Digital Trainer Kit.**

**AIM2: To verify various basic and other gates and concept of IC and Truth Table.**

**AIM3: To prove NAND and NOR Logic Gates are known as Universal Gates.**

**AIM4: To prove De Morgan’s theorem by using Truth Tables.**

**AIM5: To design and verify Binary to Gray and Gray to Binary Code Converter.**

**AIM6: To configure Half Adder, Full Adder, Half Subtractor and Full Subtractor circuits.**

**AIM7: To Study and design Magnitude Comparator.**

**AIM8: To study and design RS and D Flip Flop.**

**AIM9: To study and design JK and T Flip Flop.**

**AIM10: To study and construct various Counters.**

**AIM11: To study and configure Register and Shift Register.**