Combinational Circuit Design

a. basic gates

b. multiplexer

c. decoder

d. Half adder, full adder, ripple carry adder

e. General combinational circuit with given schematic

f. Testbench design of combinational circuit

Sequential Circuit Design

a. D Flip-Flop design

b. Shift Register Design

c. Testbench design of sequential circuit

Finite State Machine (FSM) Design

a. Moore FSM design

b. Mealy FSM design