**CHAPTER WISE SYLLABUS**

**Chpater 1**

1. Number base conversions
2. Complement of numbers 2 types
3. Subtraction with complement
4. Code conversions (BCD, 2421, 84-2-1, 6311, 5421, grey code, excess3 code)
5. Exercise questions: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 23 24 25 26 27 33

**Chapter 2**

1. Postulates of boolean algebra
2. Meanings of postulates
3. Huntington postulates
4. Postulates and theorems tabla 2.1
5. Theorems proof
6. Function to minimum literals
7. Complement of function
8. Canonical forms
9. Conversions between canonical forms
10. Standard forms
11. logic gates
12. Exercise questions: All questions

**Chapter 3**

K map and including dont care conditions and all related questions

**Chapter 4**

1. Design Procedure of combinational circuit
2. code conversion example
3. Half adder subtractor
4. full adder subtractor
5. binary adder subtractor
6. Decoder
7. Encoder
8. Multiplexer and demultiplexer
9. Exercise questions: 1 2 4 5 6 7 8 9 10 22 23 24 29 30

**Chapter 5**

1. Sequential circuit and types
2. Flipflops
3. Latches
4. Sr latch
5. D latch
6. Additional to study:
7. registers
8. RAM
9. ROM