UNIT I: INDUSTRIAL MANAGEMENT:

UNIT II: INDUSTRIAL ENGINEERING:
Factors influencing plant location - principles of layout - techniques used to improve layout - primary and secondary causes of an accident - personal protective devices - method study procedure - flow diagram, string diagram and two handed process chart - principles of motion economy - procedure for conducting stopwatch time study, production study and ratio delay study - objectives of preplanning, routing, scheduling, despatching and controlling - difference between inspection and quality control - types of plant maintenance - TPM

UNIT III: PRODUCTION TECHNOLOGY:

UNIT IV: ELECTRICAL AND ELECTRONICS ENGINEERING:
UNIT V: MECHANICS OF MATERIALS:
Mechanical properties of metals - simple stresses and strains – modulus of elasticity - geometrical properties of sections - thin cylinders bending moment and shear force - theory of simple bending - torsion and springs - transmission of motion – gear drives and belt drives.

UNIT VI: HEAT POWER ENGINEERING:

UNIT VII: COMPUTER APPLICATIONS:

UNIT VIII: FLUID MECHANICS AND MACHINERY:
Working of differential manometer - use of venturimeter and orifice classification of mouth pieces meter - working of pelton wheel, francis turbine and kaplan turbine - construction and working principle of reciprocating pump, centrifugal pump and gear pump - quick return mechanism of shaping machine - table movement in a milling machine.

UNIT IX: COMPUTER INTEGRATED MANUFACTURING:
UNIT X: DESIGN OF MACHINE ELEMENTS: