# Simulation and Modeling:

-> Types of model > Phases on smulation study.

> Advantages and Disadvantages of simulation.

Define simulation. Explain dynamic physical model with example OR Analogy between mechanical and electrical system.

### UNIT-2

UNIT-1

-> Analog methods, Hybrid Simulation, Feedback Systems.

> Methods for updating clock time. > Monte Carlo Somulation.

-> Characteristics/ Elements of queuing system.

> Kendall's notation for queuing system.
> Performance measures of (M/M/1) queuing system.

-> Namerical (5 marks) related with formulas of performance measures of (MM1) quewing system.

UNIT-4 → Small easy chapter of 2-3 pages read all.

-> Properties of random numbers.

-> Linear Congruential Method,

> K-S test, Chi-Square lest, Grap test, Auto Correlation lest, Poker lest.

> Model Building -> Calibration and validation of Models [Including validation processes: -> Face validity, Validation of model assumptions, Validating I/O Transformations]

> Simulation run statistics

## UNIT-8 -> CSMP

Tours Blocks

To