UNIT-I:
Classification of thin films- nucleation and growth- nucleation theories, substrate effect, types of target materials (boat, hair pin, helix) , film thickness effect.

Thin film deposition techniques- simple thermal evaporation- flash evaporation, Laser ablation

UNIT-II:
Epitaxial process- quartz crystal oscillator technique to measure thickness of thin film. Fabrication of thin film resistor, capacitor, diode, anti-reflection coatings, gas sensors and temperature sensors.

SUGGESTED BOOKS:

2. A. Goswami, thin film fundamentals, New age international, 2006