

GUJARAT TECHNOLOGICAL UNIVERSITY

Chemical Engineering

M.E. Semester: II

Subject Name: **Advanced Equipment Design (Major Elective - II)**

Sr. No.	Course Content
1.	(A) Process Design: 1. Design of Pipe Still heater / Furnace 2. Design of Extractor 3. Design of leaching unit 4. Design of Crystallizer 5. Design of Cyclone Separator 6. Design of Drying equipment 7. Design of Filtration unit
2.	(B) Mechanical Design 1. Design of Extractor 2. Design of leaching unit 3. Design of Batch & Continuous Fluid Bed Dryer 4. Design of Cyclone separator 5. Design of Tray Dryer 6. Design of Crystallizer 7. Design of Filtration unit

Text Books:

1. Introduction to Process Engineering and design by S.B.Thakore & B.I. Bhatt
2. Chemical Engineering Handbook 7th edition by R.H.Perry & Green D.
3. Process Heat Transfer, by Donald Q. Kern, Tata Mc-Graw, - Hill Edition.
4. Chemical process and Equipment Design by K. A. Gavhane.

Reference Book:

1. Hand book of Chemical Engg. – Mc-Ketta.