



- PIPING FUNDAMENTALS
 - INTRODUCTION
 - SCOPE OF THE COURSE IN INDUSTRIES.
 - PLANT PIPING SYSTEMS & TRANSPORTATION PIPELINES.
 - TERMS OF THE PIPING SYSTEM

- PIPING SYSTEM
 - FITTINGS
 - FLANGES
 - VALVES
 - FABRICATION TECHNIQUES
 - CALCULATIONS

- PIPING SPECIAL ELEMENTS/SPECIAL FITTINGS
 - STRAINERS
 - BELLOWS/EXPANSION JOINTS
 - RUPTURE DISC
 - SPECTACLE BLIND
 - BLANKS
 - SPACERS
 - SPRAY NOZZLES
 - STEAM TRAPS
 - FLAME ARRASTOR
 - VORTEX BREAKER
 - HOSE

- MATERIAL OF CONSTRUCTION
 - MECHANICAL PROPERTIES & MATERIALS
 - CORROSION
 - CORROSION PREVENTION
 - CHOICE OF MATERIAL

- CODES & STANDARDS
 - INTRODUCTION
 - COMOM STANDARDS IN INDUSTRIES.

- PFD/P&ID
 - INTRODUCTION
 - PFD & P& ID SYMBOLS



- DIFFERENCE BETWEEN PFD & P & ID
- HOW TO READ PFD & P&ID

- PLOT PLAN, PIPE RACK CALCULATIONS.
 - EQUIPMENT LAYOUT/PIPE LAYOUT
 - GUIDELINES.
 - PIPING ISOMETRIC/ ORTHOGRAPHIC
 - PIPING SPOOL DRAWINGS.

- MECHANICAL EQUIPMENTS
 - VESSALS
 - PUMPS
 - COMPRESSOR
 - HEAT EXCHANGER
 - TURBINES
 - DRYERS
 - FILTERS
 - MIXERS
 - EVAPORATORS
 - CRYSTALLISERS

- Stress Analysis of piping
 - Introduction
 - Type of load
 - Pipe supports
 - Introduction of supports
 - Function of Support
 - Expansion loops
 - Stress on pipes

- A. Welding methods (on piping)**
 - Introduction
 - Electro selection.

Ceaser - II: - Introduction

PDMS: - Introduction