

COURSE CONTENTS

1. Applications of solvent extraction in petroleum refining
2. Basics of solvent extraction- covering following major points-
 - Solvent selection criteria, selectivity, capacity, triangular diagram interpretation, extract purity improvement, anti solvent, cosolvent etc.
3. Dearomatization of light naphtha- for production of:
 - Cyclopentane
 - FGH
 - SBP solvent
4. Dearomatization of middle distillate –
 - Kerosene
 - Gas oil
5. Production of pure BTX from-
 - Reformate
 - Pyrolysis Gasoline
6. Extraction of lube base stocks
7. Propane deasphalting
8. Dewaxing- Deoiling
9. New applications of solvent extractions - with emphasis on following areas:
 - LCO processing
 - CLO upgradation
 - Oxidative desulfurization
 - Room temperature ionic liquids
 - Re-refining of used lube oil
 - Residual fuel oil
10. Modeling simulation and designing of extraction columns
11. Tutorials