

Bibliography for Chemical Engineering for Refineries and Petrochemistry

1. Catalytic cracking (CC)

- Raw materials
- Products
- Catalysts for Catalytic Cracking process
- Reactions mechanism
- Thermodynamics
- Kinetics of the catalytic cracking reactions
- The effect of the operating parameters on performances of the process
- Industrial units for CC

2. Heat transfer processes and specific units

- Heating or cooling agents
- Principals of obtaining cooling agents
- Steam – the main thermal energy agent used in petroleum refining plants
- Characterization of water-steam systems

Prior to the admission exam, the candidate should pass an English Language Proficiency test, or the candidate should provide certificates that attests at least level B1. If the English test is passed, the candidate can participate to the admission exam. The admission exam consists in 18 multiple choice questions; each correct answer being marked with 0.5 points.

The final admission mark is the average of the mark obtained at the graduation exam of the bachelor studies and the admission mark.