



University of Technology
Chemical Engineering Department
Graduation Project Summary



- **Supervisor:** Dr. Alaa Mashjal Ali
- **Branch:** Oil and Gas Refinery Engineering
- **Groups No. :** R16
- **Students Name:** Arkan Mohammed Assud
Samer Numan Shatuip
- **Project Title:** Production of olefins from Paraffin



- **Specific Objective:**

1- Definition and Chemical Formula:

In this study and analysis which was carried out for hydrogenating the olefins to produce saturates have been discussed here. The complete analyses have been modelled and simulated using process modelling software hysys. The efficiency in terms of the final achievable product with respect to the throughput plays a vital role in the quality of saturated LPG product. This gas processing method of treating unsaturated LPG provides us a cleaner and safe environment by reducing the emission smoke intensity levels while burning the fuel.

2- Other Names:

None.

3- Goal of Project:

The purpose of this project is to production of olefins from paraffin's by using catalysts dehydrogenation of alkenes in Liquefied petroleum gas (LPG) to a likeness technique. The product capacity is about 50000 ton/year.

4- Production Methods:

Almost all commercially produced propylene and butylenes are obtained as by-products from two principal processes: Catalytic or Cracking, refinery processes which upgrade high boiling petroleum fractions to gasoline; and steam cracking, which produces.

Paraffins Dehydrogenation