

People's Democratic Republic Of Algeria  
ministry of higher education and scientific research  
Larbi Ben M'Hidi University  
Oum El Bouaghi  
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Faculty of Sciences and Applied  
Sciences



**Department  
of  
Chemical Engineering**  
Organize



**1st 'A Study Day On  
Process Engineering  
And Employment Prospects  
in the field  
of Chemical Engineering**

**May 29, 2022**

**PE-CE'1**



## **PRESENTATION AND OBJECTIVES**

**Process engineering**, or what is known in **arabic** : *هندسة الطرائق* and in **French**: **Génie Des Procédés**, is the broader term covering the implementation of processes for the transformation of matter and energy and quantity of movement in all the chemical industries but also in the food industry, the environment, cosmetics and all related industries implementing processes.



In general, process engineering determines the conditions for the feasibility of a process and offers the appropriate technical solutions that make it possible to extrapolate it to an industrial scale. In fact, the first step is to design and size the various equipment and production units, then to drive and manage these equipment while taking into account the production requirements (quantity, product specificities, costs) while respecting the requirements of quality, safety and the environment.



Chemical engineering has become an essential discipline to support major changes in lifestyles, and a major factor in the progress and prosperity of countries, in the years to come, its efforts should focus on the following areas:

- Petroleum, petrochemical industry and petroleum refining
- Purification and liquefaction of natural gas
- Pharmaceutical industry and pharmaceutical materials
- Extraction of chemical compounds from plants, algae and others (cosmetics, alternative medicine...)
- Manufacture of biofuels from biomass materials
- Agricultural and food industry (fertilizers manufacture, pesticides, ...)
- Manufacture of building materials (cement,...) plastic compounds and glass...
- Water treatment (sea water desalination, waste water treatment...)
- Environment: air and waste treatment
- Quality control in the analysis and control laboratories (as a principal investigator to suppress fraud in the Directorate of Commerce, laboratory engineer...)



The main objective of the study (*PE-CE'1*) is to familiarize students with the various fields of employment and job opportunities available in the field of process engineering in institutions and companies that employ chemical engineers in various technical fields and supervision as well as control sites. **This target will be reached through direct contact with professors, specialists and experts from various institutions in the same field.**



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