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| **Identity card of the specialty:**Academic master:pharmaceutical engineering |

**Level:**Licence

**Domain:**science and technology

**Sector:**Process Engineering

**Speciality:**pharmaceutical engineering

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| **1- Location of the training:** |

**Faculty (or Institute)**: Science and technology

**Department**: Mechanical Engineering

References of the authorization decree of the diploma to be prepared:**1201**of08/09/2016.

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| **2- External partners:** |

**Companies and other socio-economic partners**:

-Pharmaceutical industry: SAIDAL, Algeria

- PCH of Béchar and Tindouf,

- Hospitals, CAC, EPH,….

**Other partner establishments**:

Abu Bakre Belkaid Tlemcen University

University Mohamed khider- Biskra

University of Oran 2 Mohamed benhmed

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| **3- General organization of the training: position of the project** |

**Common foundation of the domain:**

**Science and Technology**

**Sector :**

**-Process Engineering**

**Major: Mechanical Engineering**

**Major: Mechanical Engineering**

**Major: Mechanical Engineering**

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*Other Specialties approved in the sector group in your establishment***:**

**-**

**Speciality :**

**-Pharmaceutical Engineering**

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| **4- Context of the training:** |

The Master in Pharmaceutical Engineering training allows immediate access to the job market. In order to ensure the quality of training, modern teaching methods are gradually being introduced, whether for lessons, tutorials or practical work, focusing particularly on:

* The means and techniques of multimedia to ensure the transmission of the educational message (powerpoint presentations by video projector supported by handouts);
* Practical work for almost all teaching units;
* A personal work of the student, through presentations and mini-projects, which constitutes a major factor in the success of the training and the evaluation of aptitudes.
* Field trips to consolidate students' theoretical knowledge.

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| **5- Objectives of the training:** |

The Engineering Sciences major represents the greatest research strength in process engineering. It brings together all the specialties that deal with Process Engineering (Environmental Engineering, Chemical Engineering, Cold and Cryogenics, Pharmaceutical Process Engineering, Refining and Petrochemicals), combining a fundamental approach with an applied approach in a training offer. The objectives of this mention are to continue to develop Process Engineering. The priority areas of this training are: • Training of students in process engineering (knowledge, know-how, etc.), • Acquisition of fundamental concepts • Ability to reflect, research and analyze scientific and technical documents • Learning to write dissertations and their oral presentation

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| **6- Profiles and skills targeted:** |

This Master aims to offer a double skill: analysis and data processing in addition to the initial training in Pharmaceutical Engineering. It is aimed at students wishing to acquire an additional skill allowing them to identify and manage specific problems related to Process Engineering within a company or to offer a diagnosis and decision support in terms of functioning within a company. This field requires general multidisciplinary skills, more specific skills, much more advanced skills allowing the resolution of concrete problems. Consideration of complementary methodologies (theoretical and experimental approaches, multidisciplinary projects).

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| **7- Local, regional and national employability potential:** |

Process Engineering, more particularly Pharmaceutical Engineering, deals with the industrialization of chemistry and processes for the transformation and purification of materials for pharmaceutical use. The fields of application follow one another throughout the development of the manufacturing process: development in the laboratory, pilot scale, sizing of the equipment, construction of the unit then its operation.

This course in process engineering aims to train versatile executives with knowledge and know-how that allow them to fit into all levels of the process. They are intended to occupy positions of Study Manager, Project Manager, Process Technician, etc.

This course targets large companies operating in the fields of processes, chemistry, energy and the environment on a national scale, such as Sonatrach, Sonelgaz, ADE, cement factories, Saidal, etc. At the regional level, there is also a strong potential for outlets at the level of the SME-SMI fabric having activities of design offices, consulting firms, material transformation and treatment.

With the curriculum offered as part of this license, graduates are able to integrate different sectors*socio-economic*:

* Technical education in secondary;
* Research laboratories;
* Public bodies;
* Design offices;
* The industrial sector.

For this last sector, these graduates constitute the backbone of management in the production units (*Chemical Industries, Petrochemicals, Refining, Cement, Water Treatment,Drug manufacturing technology*,*Agrifood, etc.*)