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| **Identity card of the specialty:**Academic Master: Mechanical Engineering |

**Level:**Master

**Domain:**science and technology

**Sector:**Mechanical Engineering

**Speciality:**Mechanical construction

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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:1201of08/09/2016.

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| **2- External partners:** |

**Companies and other socio-economic partners**:SNVI, SNTR, United'NAFTAL LPG installation, 3 Moulins Betank, GIGA Béchar, Akli Group

**International partners**:

**Other partner establishments**:

Abu Bakre Belkaid Tlemcen University

University Mohamed khider- Biskra

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

**Common foundation of the domain:**

**Science and Technology**

**Major: Mechanical Engineering**

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

**-**

**Speciality:**

* **Master's degreeMechanical construction**

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

*Enter in the diagram following the master, the subject of this canvas as well as all the approved masters (functional or not) at the level of the establishment and belonging to the same Group of sectors. Specify with an asterisk any other Master whose supervision is also provided by a good part of the teachers involved in this present Master.*

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

Mechanics is located along a chain going from the extraction of the raw material to the distribution passing through the most elaborate finished products. The sector can be broken down into three areas of activity:

* + Equipment (machines, production systems, components)
  + Processing (subcontracting, tools, household items)
  + Precision (health, optics, measuring instrument)

The existence of several industrial activities related to the field of mechanics at the national or regional level, requires adequate training in mechanics.

The objective of this Mechanical Construction Master is to provide students with all the knowledge necessary to understand and solve problems related to mechanical systems.

This training allows students to acquire a broad scientific culture in the field of engineering sciences, with solid foundations in mechanics, mathematics and scientific computing.

It consists of:

- Train students in methods of synthesis, analysis and understanding of laws and fundamental phenomena within the field of mechanical sciences.  
- Provide the essential complements to the applications of mathematics and computer science.  
- Prepare students for the acquisition of theoretical and practical methods for applications in various fields in general and in the field of mechanical industries in particular.

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

Mechanics is the pivotal element between fields as diverse as structural calculation, aeronautics, meteorology, acoustics, oceanography, ...

Any student holding a license in Mechanical Engineering has access on title to the corresponding Masters in Mechanical Engineering, with a view to a career oriented towards research professions in the Mechanical Engineering sector or towards professional life. The holder of this diploma will be able to:

* carry out a maintenance policyaspectmechanical.
* follow up on the maintenance of a fleet of machines or an installation of equipment.
* Initiate mechanical studies on a given product.
* Analyzethe data and results of a mechanical problemand make the right decisions.

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

The branch of the mechanical industries constitutes a set of various industrial activities which have in common the working of metals (machining, shaping, surface treatment, assembly, etc.) and its routing to users of machines and/or mechanical equipment ( Public Works, Building, etc.).

The potential sectors of activity requiring executives graduating from this License are:

* Design offices - Characterization analysis; Consulting expertise.
* Maintenance of the machine park in SMEs in the mechanical industries.
* Manager assisting the engineer in the industrial sector
* Public administration framework such as mining services
* Technical education professions (middle, secondary).