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| **Identity card of the specialty:**Academic Master: Energetics |

**Level:**Master

**Domain:**science and technology

**Sector:**Mechanical Engineering

**Speciality:**Energetics

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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**: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**

**Major: Mechanical Engineering**

**Major: Mechanical Engineering**

**Major: Mechanical Engineering**

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

**-**

**Speciality:**

**-Energy Master**

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

*Enter in the following diagram Master, the object of this outline as well as all the Masters approved (functional or not) at the level of the establishment and belonging to the same Group of sectors. Specify with an asterisk any other licence/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:** |

Acquire the reflexes of an energy specialist, be able to make the energy balance of any mechanical system, consumer or generator of energy in any form whatsoever, in order to then be able to decide on its vitality or locate its failures. This is the ambitious objective of this training.

The proposed Energy Master allows the holder of his diploma to adapt as quickly as possible in the various professions related to the production, generation, transport, transformation and use of energy. The professions of industrial air conditioning, cold production, heating, domestic air conditioning, thermal, solar, hydraulic, geothermal, wind power plants, motors, etc. are thus targeted by our training.

Thanks to solid training in thermodynamics and applied thermodynamics, heat transfers, fluid mechanics, turbomachines, engines, renewable energies, cold and climate engineering, the energy graduate will be able to adapt easily and build skills in all trades related to energy

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

The academic license in energy prepares for Master's training in a multitude of specialties through its rich program in terms of basic lessons. On the other hand, this training prepares the graduate to integrate various potential sectors of activity:

* Design offices, characterization analysis, expert advice;
* SMEs in mechanical industries
* Maintenance of the machine park, etc.

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

This Licenseoffers real professional opportunities in many sectors,to know :

* Transport of all types of fluids (water, gas, oil, pressurized water).
* Thermal power stations.
* Solar and hydraulic power stations, gas power stations and thermal motor groups.
* Cold, production and distribution, liquefaction of natural gas and its derivatives.
* Liquefaction of air and its components for industry and medicine.