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| **Identity card of the specialty:**MASTER ELECTRICAL NETWORKS |

**Level:**Academic Masters

**Domain:**Science and Technology

**Sector:**Electrical engineering

**Speciality:**Electrical networks

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

**Faculty (or Institute)**:TECHNOLOGY

**Department**:Electrical Engineering.

References of the authorization order: Order no. 1201 of 08/09/2016.

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| **2- External partners:** |

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

**International partners**:/

**Other partner establishments**: Sonelgaz of the production SPE Bechar/Ghardaïa, Sonelgaz distribution Bechar, Sonelgaz of the Transport of electrical energy THT/HT GRTE Bechar /Oran, Algérie Telecom, NAFTAL (GPL, CPL) Bechar, GICA Saoura Bechar

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



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

The training aims to prepare students who are able to use electrical engineering tools and industrial electrical equipment to ensure the supply, transmission and distribution of energy in high and low voltage.

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

Train masters capable of using electrical engineering tools and industrial electrical equipment in order to guarantee the power supply, their transport and their distribution in high and low voltage.

The training allows you to:

– develop the spirit of management and control by mastering methods and organization,

– ensure a methodology allowing to quickly integrate the notions of reliability, maintainability, availability, security,

– deepen knowledge in the field of electrical engineering,

– train specialists in electrical networks capable of taking into account the human and economic dimensions of the company, and of integrating the notions linked to sustainable development, opening up to international standards through knowledge of regulations and institutions.

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

The academic master's program in electrical networks provides scientific training in the field of electricity, power supply, transport and distribution of electrical energy, as well as their protection, monitoring and diagnosis. This training allows students to prepare a dissertation in Electrical Networks. The mention aims to deepen disciplinary and professional knowledge in the field.

Graduates from this training and wishing to join the professional and research world will be able to:

– Carry out specialized tests and inspections, check the conformity of the equipment with respect to the specifications in the specifications, respecting the standardization in force.

– Record the results of trials, tests and inspections in a report, define procedures.

– Analyze the causes of breakdowns and failures and propose improvements.

– Rational choice of equipment and control and maintenance methods.

– Ensure the maintenance of electrical equipment.

– Participate in the establishment of specifications and technical files.

– Help in the study of preliminary projects and projects.

– Constantly update their knowledge of technological developments.

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

Algeria has a very large electricity network, thus offering enormous potential for the integration of future researchers or professionals holding an academic Master's degree in Electricity Network.

Students holding an Academic Master's degree in Electrical Networking of Industrial Equipment can be recruited to perform the following functions:

1. Head of energy production unit,

2. Head of service and maintenance,

3. Head of electrical energy transmission service,

4. Head of electrical energy distribution service.

5. Head of maintenance group leader,

6. Operational collaborators in the laboratories of the Universities.

6. Others…

The areas of activity are varied and concern:

1. Power generation plants,

2. Constructions and electrical engineering works,

3. The field of materials (cables and electrical equipment),

4. The sector of transport and distribution of electrical energy,

5. Others.