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| **Identity card of the specialty**: Academic Masters |

**Level:**Academic Masters

**Domain:**Science and Technology

**Sector:**Civil Engineering

**Speciality:**Structure

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

**Faculty**:TECHNOLOGY.

**Department**: Civil and Hydraulic Engineering

References of the enabling order: Order No. 1201 of08/09/2016

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| **2- External partners:** |

**Companies and other socio-economic partners**: Direction of water resources of the wilaya of Béchar, company "Saoura-Ciment Béchar, public works laboratory Béchar unit, intensive language teaching center CEIL, SONATRACH, the Algerian water company ADE, Brenco Engineering & Consulting Services EURL

**International partners**: IMT Atlantique Bretagne-pays de la Loire,

**Other partner establishments**: DGRSDT, University of Oran University 2 Mohamed benhmed, University of science and technology of Oran Mohamed Boudiaf, University constontine3, University sahli Ahmed of Naama, National Polytechnic School of Oran Maurice Audin, University Mohamed khider-Biskra , Abou Bakre Belkaid Tlemcen University, Djilali Liabes University of SIDI-BEL-ABBES, Belhadj Bouchaib University of Ain-Temouchent

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

Common foundation of the domain

**Common foundation of the domain:**

**Science and Technology**

**Sector: Civil Engineering**

**Sector: Civil Engineering**

*Other Specialties approved in the sector group in your establishment***: Materials, geotechnics**

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**Speciality:**

**-Structure**

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

The function of structural engineer takes on its full meaning in the search for relevant and optimal structural solutions in compliance with existing regulations.

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

The field of CIVIL ENGINEERING is in full development and offers a diversity of employment. The aim of this Master's course in structures is to provide high-level scientific and technical training in the Building, Public Works (BTP) and construction sectors. The educational objectives of the master are as follows:

* theoretical and methodological reinforcement of fundamental scientific subjects,
* the development and deepening of knowledge in more specialized sectors,
* introduction to research methods and working tools.

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

This training aims to train executives for the Civil Engineering, Building, Public Works and Civil Engineering sectors in general, and more specifically, design offices, consulting firms and companies. For this, a good mastery of structural calculation, behavior laws, RDM; of MEF, of BA, of CM…etc., is strongly necessary.

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

The professional opportunities at the level of the executives, graduates in Master Structures, are important in all the phases of a construction operation, namely:

– Programming of works: public sector (local authorities, construction companies, etc.).

– The calculation of works: design offices, engineering firms.

– The conduct and monitoring of works and the control – quality of works: FTE of building of major works and secondary works, control offices, etc.

– Site monitoring: medium and large-scale construction.

– Maintenance and management of heritage: Technical management, rehabilitation and development.