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| **1- Identification of the Education Offer** |

***Level* : Master Degree (Graduate level)**

***Field :*** **Architecture, Urban Planning and City Professions**

***Branch* : Architecture**

***Speciality* : Architecture**

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| **2- Educational Establishment :** |

***Faculty/Institute:*** **Faculty of Technology**

***Department:* Department of Architecture**

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| **3- External partners** |

***Algerian Academic partners:***

Polytechnic School of Architecture and Urban Planning (EPAU).

Architecture departments nationwide

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

Tlemcen Urban Planning and Construction Department (DUC) ;

Tlemcen Public Equipment Department (DEP) ;

Tlemcen Housing Department (DL) ;

Tlemcen Property Management Promotion Office (OPGI) ;

Tlemcen Cultural Department (DC) ;

Mekteb el Hendassa Tlemcen (MHT) ;

Local Council of the Order of Architects (CLOA) ;

Technical Building Control (CTC) ;

Popular Assembly of the Commune of Tlemcen (APC).

Tlemcen Arts and Exhibition Centre (CAREX) ;

Tlemcen Youth and Sports Department (DJS) ;

Office National de la Gestion et de l'Exploitation des Biens Culturels in Tlemcen (OGEBC).

***International partners :***

University of Aix En Provence, France.

Polytechnic University of Madrid, Spain.

Polytechnic University of Bucharest, Romania.

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

The objectives of the training aim to prepare a "professional" equipped with the skills, abilities, and aptitudes that promote their participation in qualitative production, the promotion of architecture, and the protection of the built heritage. Thus, all architectural production is called upon to preserve the quality of public interest that natural and urban landscapes embody. Any intervention, therefore, requires the involvement of a professinal possessing adequate skills to practice the profession of an architect.

Upon completion of the training, the learner will be able to design, develop, and manage an architectural project. These capabilities will be accompanied by both cross-disciplinary and specific skills. The former consists of mastering communicative skills at a university level (both oral and written), possessing appropriate personal culture, and having knowledge to draw upon beyond the scope of their profession.

The latter relates to the discipline or specialization. These skills, therefore, facilitate the application of knowledge in the practice of the profession. In summary, the training aims to establish a framework equipped with knowledge, personal attributes, and practical skills ready to be utilized to accomplish the tasks within their domain in accordance with professional standards.

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| **5- Facilities, Equipment and Laboratoires** |

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| **Title of the laboratory:** | | **TOPOGRAPHY** | | |
| **No.** | **Equipment title** | | **Number** | **Observations** |
| 1 | Theodolite DT 200 digital | | 1 | The material listed allows the  realization of various works  surveying practices  as :  • the statement,  • the layout,  • determination of surfaces,  • plotting the curves of  levels, etc. |
| 2 | Theodolite Tt400 (T12) with tripod | | 1 |
| 3 | Tachymeter device 5 | | 5 |
| 4 | 4 Niveaux NK01 8 | | 8 |
| 5 | KERM level with tripod | | 1 |
| 6 | Level N 20 with tripod | | 1 |
| 7 | Leica NA730 level | | 1 |
| 8 | Gray T12 staff | | 1 |
| 9 | White target | | 7 |
| 10 | LNG red sight | | 2 |
| 11 | Staff with case | | 1 |
| 12 | Mire L.A.T | | 1 |
| 13 | Mire type B.T.L 4D.01 | | 1 |
| 14 | Mire B.T.L 4D | | 1 |
| 15 | Optical brackets | | 6 |
| 16 | GST 20 Tripods | | 5 |
| 17 | Tripods GST 70 | | 1 |
| 18 | Trépied type B.S.T | | 1 |
| 19 | Centering device with two pivoting feet 1 | | 1 |
| 20 | Centering rod | | 2 |
| 21 | Milestones | | 67 |

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| **Title of the laboratory:** | | **Building materials technology** | | |
| **No.** | **Equipment title** | | **Number** | **Observations** |
| 1 | Complete apparatus for equivalent test of  sand according to NF P 18 598 | | 2 | Equivalent test of  Sand |
| 2 | Complete apparatus for Vicat test | | 2 | Vicat test |
| 3 | Complete apparatus for the " Permeameter of  BLAINE » | | 3 | Permeability test |
| 4 | Flow cone according to NF P 10-358 with  10 mm fixed nozzle L0060.4 | | 2 | TP Flow cone |
| 5 | 1l PVC measuring container | | 2 |
| 6 | Stainless steel sieve diameter 150 open 3.15 mm | | 2 |
| 7 | MARCH cone nozzle diam 4.76 mm for  grout viscosity with graduated plastic bowl  1 liter | | 2 | TP Cone of March |
| 8 | 1 liter graduated bowl | | 2 |
| 9 | SPEDY device | | 3 | TP |
| 10 | Measuring plot for shrinkage mold 4x4x16 cm (10 pieces) | | 1 |
| PT of  Deformometry or  refractometry |
| 11 | INVAR calibration rod length 160mm  for test on specimen 4x4x16mm | | 1 |
| 12 | Stainless steel ball dia 6mm for refractometer | | 5 |
| 13 | 5mm comparator | | 1 |
| 14 | Pull-Out test device according to ASTM C900 | | 1 | Pull-out test TP |
| 15 | Hydraulic cylinder | | 1 |
| 16 | Pump with 60kn pressure gauge | | 1 |
| 17 | Set of inserts to put in place when casting the  concrete with support ring | | 1 |
| 18 | Complete apparatus for analysis  particle size of aggregates | | 5 | Analysis lab  Granulometric |

12 drawing rooms with a capacity of 25 drawing tables

09 classrooms with more than 25 seats

01 Amphitheater (classrooms) with 150 seats

02 computer rooms with a capacity of 20 workstations (for CAD work)

01 drawing room

01 computer center

01 remote teaching center

01 examination room

Library of over 6,000 books from the Faculty of Technology.

In addition to the titles available in architecture, the library covers all disciplines related to architecture:

- Civil Engineering

- Books in Computer Science

- Hydraulics

- Books on environment and ecology.

- Books on urban planning

The Faculty of Technology is equipped to provide

Students to benefit from Internet services.

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| **6- Profiles and Competencies Targeted** |

Regarding the targeted profile and skills, it is necessary to refer to the national reference framework for professions and the legislative texts governing the architectural profession.Indeed, the Algerian Nomenclature of Trades and Jobs (NAME) is a comprehensive database that guides the objectives of training programs in terms of profiles and skills. Thus, the main activities of the professional focus on mastering the design proposals from creation to execution projects, with the ability to oversee the works (General Outline, Studies, Construction Supervision). These professional responsibilities require basic competencies such as knowledge of law, standards, and market regulations, expertise in project planning and management, as well as proficiency in technical tools.

Regarding legislative texts, Legislative Decree No. 94-07 of May 18, 1994, modified by Law No. 04-06 of August 14, 2004, concerning the conditions of architectural production and the exercise of the architectural profession, remains the sole reference for the framework, scope, and prerogatives in the architect's activities. Architecture is defined therein in terms of knowledge and skills in the art of building (Article 2). These competencies are required of a project manager, embodied by the licensed architect (Article 9).

Therefore, the training program is designed to establish a framework capable of carrying out activities in the field of architectural production and also dedicated to research in related disciplines. These activities include heritage restoration and conservation, eco-construction and sustainable development, building realization and site management, expertise, consulting and technical advice, administration and public service, real estate expertise, industry and business, education and research, finance, and real estate management.

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| **7- Development Prospects and Employability** |

he distribution of architectural training points across the national territory can help meet the production needs in the construction sector. The variety of tasks and missions assigned to the architectural profession is part of the demand from all sectors, organizations, and institutions involved in urban services, local authorities, and the construction industry.

Building production also requires management and maintenance services, ensuring tasks related to updating, requalification, and rehabilitation of the living environment. Private sector work is also considered. Accreditation follows a procedure that includes completing a professional internship and registration with the National Register of Architects. In conclusion, employability is ensured to the extent of the needs of the sectors and the services provided by urban and municipal organizations.

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| **8- Organisation of the Semesters Teaching** |

The training program spans 4 semesters, each consisting of 12 to 15 weeks, covering both theoretical and practical subjects, including a key module called "the project," which serves as the anchor point for the teachings and capitalizes on real-life scenarios. This project-based approach enables the identification of individual aptitudes and facilitates the establishment of a customized follow-up plan, guiding learners to address a set of specific problems based on their acquired knowledge.







