

B.L.F2.S1.02 G 1608, L 1801, L 1805, L 1806, L 1807, O 1202, O 1301, O 1401, O 1402 .

Profile Card for Major: Computer Systems

Level: Bachelor's degree

Field: Mathematics and Computer Science

Branch: Computer Science

Specialization: Computer Systems

1. Place of Training:

College/Institute: Mathematics and Computer Science

Department: Computer Science

Reference Qualification Decision: Decision No. 1090 dated 13/10/2015

2. Other participants:

Partners of other universities:

General Directorate of Scientific Research and Technological Development, University of Béjaia, University of Batna 2, University of Khenchela, University Center of Bouira, University of Setif 1, University of Constantine 1, University of Bejaia, National Agency for the Valorization of Research Results and Technological Development, University Agency for Francophonie (AUF), and so on.

Social/Economic Institutions and Partners

SPE - M'Sila Unit (Electricity Production Company), Condor Complex - Bir El Aterij, Lafarge - M'Sila (International Cement Manufacturing Company), Industrial Equipment Maintenance Institute (MEI) - M'Sila, Primatec - M'Sila, Halim Milk Foundation - M'Sila, Morocco Pipes Foundation - M'Sila, Solar Incubator Foundation - M'Sila, National Agency for Youth Employment Support, etc.

International partners

University of Lille 1, France

Gazi University, Ankara, Turkey

Al-Manar University, Tunisia

University of Gafsa, Tunisia

Ibn Zohr University, Agadir, Morocco

National Higher School of Town Planning, Toulouse, France

...and so on.

3 - General Organization of Training: Project Position

Common Foundation of the Field: MI (1st year) + L2 Computer Science ———> L3
Information Systems

4. Training content and contexts:

The content of this training program focuses on the fundamental principles of computer system development, such as software engineering and programming paradigms. It enables the certificate holder to acquire the necessary skills for analyzing and developing computer programs.

5. Training objectives:

Graduates of the "Computer Systems" specialization at the university will have acquired the essential knowledge in software engineering, specifically. They will become aware of all the hardware and software-related issues involved in the development of computer systems.

6. The targeted skills from the training are:

- High-level skills and competencies in engineering, designing, and managing information technology systems.
- Training analysts who will be able to innovate, integrate, and assemble technologies to build information technology systems tailored to the needs of businesses across various industrial and economic sectors (space, aviation, railways, roads, energy, banking and insurance services, software publishing, etc.).

- The aim of this specialization is to train professionals in computer systems who can understand medium and large-scale business projects.

7. The local, regional, and national employment opportunities include:

1. Sectors of activity:

- Industry
- Training
- Commercial technologies
- Consulting firms

2. Job roles:

- Research and development
- Education
- Consulting firms