

République Algérienne Démocratique et Populaire Ministère de l'Enseignement Supérieur et de la Recherche Scientifique Setif 1University– Ferhat Abbas

Faculty: Sciences

Bachelor's degree in Computer Systems

Specialization presentation and objectives:	Curriculum strengths:
The Bachelor's degree in Computer Systems is designed to provide students with the fundamental skills, theoretical and practical methods and technical know-how required for the various tasks involved in computer science.	The Bachelor's degree in Computer Systems is designed to train students in the field of computer technologies. The main objective of this program is to provide students with the basic knowledge of computer science, enabling them to gain rapid access to the job market. It also aims to prepare them for
knowledge of the foundations, architectures and hardware of computer systems. The main objectives of the course are	advanced and specialized studies in the field of computer science.
 Human-machine interface design, Learn to use Web, object-oriented, network and system technologies. 	Current application of articles 171 and 1023 of the decrees:
 Master software methods and technologies, Learn to develop computer applications and design information systems, Learn programming languages and operating systems. 	 The acquisition of skills and knowledge is assessed every six months through continuous assessment and a final exam. Passage from one year to the next is conditional on validation of both semesters of the training
On completion of the course, students will be able to enter a wide range of Masters programs, as well as enter the world of work in all areas of IT, with a wide range of interesting career opportunities.	 program, or an average of 10 or more by compensation. Depending on the training program, students are assessed on their lectures, practical work, tutorials and internships.
Entry requirements:	Basic training modules
- High School diploma (Sciences / Math)	
- Classification by DAC average	✓ Analysis
Career projections :	✓ Algebra
	 Algorithms and Data Structure Probability and Descriptive Statistics
Software Developer	 Probability and Descriptive Statistics Information Systems
Systems and Network Administrator	$\checkmark \text{ Machine Structure}$
IT Support Technician	✓ Operating System 1
Web Developer	✓ Database
Database Administrator (DBA)	✓ Networks
II Consultant Mobile Developer	✓ Object-oriented programming
Organization of studies and official program	Advanced training modules :
duration:	Crock theory
	 Graph theory Numerical methods
Program overview:	\checkmark Language theory
	✓ Web application development
Semester 01 :	✓ Compilation
Analysis 1	✓ Software engineering
Algebra 1	✓ Human machine interface
Algorithms and Data Structure 1	✓ Linear programming
Machine Structure 1	✓ Mobile applications.
Scientific terminology and written expression	✓ Computer security
Physics 1 (point mechanics)	 ✓ Artificial intelligence

Semester 02 :

Analysis 2 Algebra 2	Language of instruction:
Algorithms and Data Structure 2	English / French
Machine Structure 2	
Introduction to probability and descriptive statistics	Training outline :
Programming tools for mathematics	
Physics 2 (General Electricity)	The tables provided in the previous section "Program Overview".
Semester 03 :	
Computer architecture	
Algorithms and data structure 3	
Information systems	
Graph theory	
Numerical methods	
Mathematical logic	
Foreign language 2	
Semester 04 :	
Language theories	
Operating system 1	
Databases	

Databases Networks Object-oriented programming Web application development Foreign language 3

Semester 05 :

Operating system 2 Compilation Software engineering Human-machine interface Linear programming Probability and statistics Digital economy and business intelligence

Semester 06 :

Mobile applications. Computer security Artificial intelligence Semi-structured data Project Scientific writing Create and develop a startup

Program coordinator: Dr. Abdelaziz LAKHFIF

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