

CYBERSECURITY BOOTCAMP

 Executive Certificate |  40 Days |  English
 University Mohammed VI Polytechnic – Benguerir Campus



Executive Education Science & Technology



The Executive Education Science & Technology (Exed S&T) program at Mohammed VI Polytechnic University (UM6P) supports executive leaders in Morocco and Africa in their development goals through diverse training programs led by recognized experts. Focused on science and technology domains such as digital, sustainable development, mining, renewable energy, Industry 4.0, and more, these courses enable participants to gain advanced knowledge and develop unique expertise in the market. This is achieved through a favorable, flexible, creative, and stimulating learning environment that encourages practical application through business cases.

Centered around science and technology, these programs align with UM6P's pedagogical project, bringing it closer to the realities of professionals. They also rely on high-quality multidisciplinary scientific research.

An Ecosystem for Research, Innovation, and Real-Scale Experimentation



College Of Computing UM6P:



The College of Computing situated at Mohammed VI Polytechnic University (UM6P) in the Green City of Benguerir asserts itself as a leading institution in computer science education and research, providing world-class higher education under the guidance of renowned professors and researchers while fostering discovery and innovation in computing.

Our mission focuses on:

- Educating and training the next generation of computer scientists, researchers, and engineers through innovative, specialized programs spanning from undergraduate to doctoral levels.
- Conducting world-class research and development projects that advance our understanding of computing and its application, generating new knowledge, and driving innovation.
- Developing advanced mathematical models, efficient computing algorithms, and comprehensive simulation tools to address scientific and industrial challenges, leveraging cutting-edge facilities like UM6P's high-performance computing (HPC) center.
- Facilitating knowledge transfer between academia and industry, preparing our students for leadership positions in the ever-evolving digital world.
- Serving society, particularly the African continent, by harnessing the power of computing and data analysis to address pressing challenges and promote sustainable development.



CySA – UM6P:



The Cybersecurity for Africa research center (CySA) is the first of its kind in Morocco, and among the two first in Africa. It is a house for interdisciplinary research in cyber security, systems security, and physical systems security. The CySA research center aims to contribute to the international effort to advance research in cyber security and infrastructure protection and train highly qualified resources.

The primary ambitions are input-focused on leading in Cyber Security and Critical Infrastructure Protection in Morocco and Africa, advancing theoretical and applied research in cyber security and critical infrastructure and offering cybersecurity programs in cybersecurity including PhD degree, Executive master's degree programs in interdisciplinary domains.

The CySA's other mission is to foster collaboration between researchers from different institutions, countries, and industrial and government organizations and to offer research assistance to stakeholders and industrial partners.

Program



Program's Objective

The program has been designed to provide the students with the necessary technical skills and theoretical knowledge to address evolving cybersecurity challenges.

Each course is instructor-led by credentialed professors with industry experience.

The program's courses are presented over a period of 3 to 4 months and consist of assigned readings, threaded discussions, case studies, hands-on workshops, and quizzes.

In this program you will face a simulated problem that enterprises often have to deal with. You will also get a chance to practice what you have learned during the previous weeks under the supervision of an industry expert.

The cybersecurity program will allow you to:

- Earn a Cybersecurity Certification
- Attain industry-recognized certifications for your professional careers
- Learn from top-notch faculty who are industry practitioners in the Cybersecurity field
- Attend a hands-on program in UM6P professional environment
- Attain a Hands-on learning experience and practice in Labs
- Be part of a Diverse and International Community in the Cybersecurity field

Program



Pedagogy:

This program will enable participants to:

1	Develop key cyber security skills
2	Understand the fundamental principles of system and data protection
3	Detect threats and respond to security incidents
4	Implement effective recovery plans

Courses:

Basics

- › Fundamentals of Information Systems Security
- › Security Risk Management and Assessment
- › Fundamentals of Cryptography
- › Network Security
- › Python for Cybersecurity

Advanced

- › Windows Platforms and Applications Security
- › Linux Platforms and Applications Security
- › Ethical Hacking: Penetration testing
- › Digital Forensics and incident response
- › Cloud computing security
- › Web and Database security

Immersive Professional Project

- › 1-month comprehensive assessment of knowledge and skills in information systems and cybersecurity

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