UPES
Private Faculty of Management Sciences
— & Technology

INTERNATIONAL MOBILITY OPPORTUNITIES: SHORT TRAINING PROGRAMS

CATALOGUE 2024

upes-megrine.com

PREAMBLE

UPES
Private Faculty of Management Sciences
& Technology
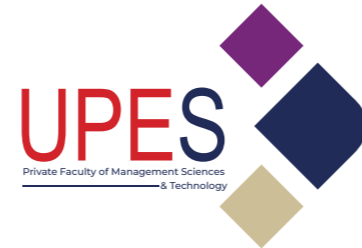
Dear Partners and Future Students,

We are delighted to present our catalog dedicated to training opportunities for international students. Our university is proud of its commitment to academic excellence, innovation, and cultural diversity.

Since its founding, our institution has consistently strived to create a stimulating environment where students from around the world can thrive both academically and personally. Our mission is to educate leaders and global citizens ready to tackle the challenges of the 21st century.

We strongly believe that student mobility is a key element for personal and professional development. Through our collaboration with our partner universities, we are committed to offering a variety of high-quality training programs tailored to meet the needs and aspirations of each student.
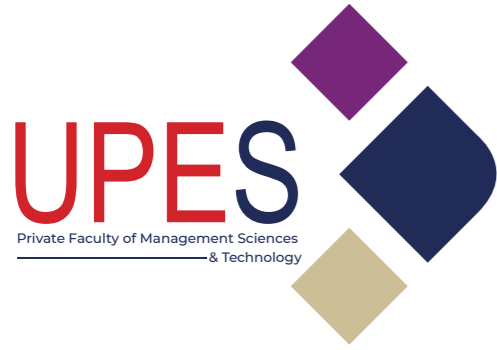
In this catalog, you will discover a wide range of academic programs and specialized bootcamps in the field of computer science, designed to enrich your skills and broaden your horizons. Our training offerings cover the most in-demand computer science specialties in the job market. Each program is designed to offer a rewarding learning experience, incorporating innovative teaching approaches and practical projects.

We have also put in place comprehensive support services to assist our international students throughout their stay. From orientation and guidance to academic and personal support, our dedicated team is here to ensure that your experience with us is as enriching as possible.

We invite you to explore this catalog and consider joining our dynamic and inclusive university community. Together, we can build a better future by promoting the exchange of knowledge and cultures.

We look forward to welcoming you and contributing to your success.

Imen Khamassi
CEO of **UPES**

We believe that the university experience goes far beyond the classroom. This is why we strive to provide a stimulating and inclusive living and learning environment where each student can fully thrive.

Our commitment to internationalization is reflected in our initiatives to promote cultural and academic exchanges, thereby offering our students a global perspective, essential in today's world. We are delighted to welcome students from around the globe and support them in their academic and personal journeys.

To ensure the provision of high-quality education that meets the requirements of the most modern international educational management standards, UPES has implemented since 2021 a Quality Management System for Educational Organizations (QMSOE), achieving dual certification with ISO 9001:2015 and 21001:2018 from DeuZert, the first certification body accredited for ISO 21001:2018 in Germany.

PRESENTATION OF UPES

■ HISTORY OF THE UNIVERSITY

Located in a prestigious business district of Greater Tunis, in the heart of the southern suburbs of Tunis, easily accessible and secure, the Private Faculty of Management and Technology (UPES) is a private higher education institution established in 2001. UPES offers various specialties and specifically provides engineering training in three fields: Computer Engineering, Systems and Network Engineering, and Industrial Computing. It has been authorized by the Ministry of Higher Education and Scientific Research to award the National Engineering Diploma in Computer Science since 2003.

■ MISSION & VISION

Our mission is to provide quality education that prepares our students to face global challenges. We value innovation, diversity, and community engagement. We believe in the importance of developing well-rounded individuals with strong academic skills and strong ethical values.

OUR STRENGTHS
IN A FEW POINTS

- ○ The only faculty located in the southern suburbs
- ○ Various specialties, including engineering
- ○ Practice-based training
- ○ Guaranteed internships with the possibility of continuing studies abroad

PRESENTATION OF OUR PARTNER PROSERVICES

Proservices Training Company specializes in continuing education and consulting. Its mission is to enhance candidates' skills for successful integration into professional life.

OBJECTIVES

Providing high-quality training aligned with emerging market trends and the evolving demands of professional sectors. The primary goal is to encourage professional growth by offering practical knowledge and actionable skills that enhance both individual and collective performance.

PROGRAMMATIC

Its programmatic approach is shaped by the commitment to providing innovative and customized training solutions, designed to catalyze growth and professional excellence within organizations.

PERFORMANCE

Its training catalog is carefully designed to be a catalyst for business success. The programs are meticulously developed to strengthen the key skills needed to achieve the strategic goals of each company.

TRAINING

Individually or in groups, within an organization or a company... Because training is a powerful lever for personal and professional progress at key moments, helping to support the company's growth.

PROSERVICES OFFERS CONTINUING PROFESSIONAL TRAINING IN VARIOUS FIELDS:

- Software Development
- Testing & Validation
- Marketing
- Design

STUDENT MOBILITY:
OVERVIEW OF SHORT TRAINING PROGRAMS

INTENSIVE PROGRAMS, ENRICHED EXPERIENCE

We offer a complete range of intensive and practical programs designed to enrich the academic and personal experience of our international students. These programs allow engineering students to discover new cultures, broaden their academic horizons, and develop valuable intercultural skills.

SHORT TRAININGS, INTERNSHIPS OFFERED

These short-term programs are aligned with emerging market trends and the evolving demands of professional sectors. Each bootcamp is developed in collaboration with industry experts, ensuring skills that are immediately applicable in the professional world. They are also enriched by short-term internships offered by our industrial partners.

CULTURAL & ARTISTIC ENRICHMENT

Our training programs are not limited solely to academic education. We have integrated a range of cultural and artistic activities into our programs, aimed at offering a complete and enriching educational experience. International students will have the opportunity to participate in cultural outings, visits to historical sites, and trips to iconic locations. These activities not only allow them to discover the cultural richness of our region but also to create lasting bonds with other students.

PRACTICAL TRAINING

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TOP INSTRUCTORS

Our bootcamps are led by both UPES academics and active professionals working in renowned partner companies. This combination ensures that you receive rigorous, relevant, and up-to-date training.

The programs listed below offer engineering students a variety of specialized training options, allowing them to choose the one that best aligns with their professional ambitions.

BECOME A CERTIFIED SOFTWARE TESTER

Explore our bootcamp on software testing and agility, where mastering these essential skills will propel you towards excellence in modern software development.

3 DAYS

MANUAL TESTING
6 hours/day

Acquiring essential skills to ensure the quality and reliability of applications.

5 DAYS

AUTOMATION TESTING
6 hours/day
Mastering tools and techniques to optimize and accelerate the testing process

1 DAY

API TESTING
6 hours/day

Learning to ensure the performance of web and mobile applications

1 DAY

SQL TESTING
6 hours/day

Learn how to ensure the performance of web and mobile applications

PRACTICAL INTERNSHIP WITH PROSERVICES
5 DAYS
6 hours/day

Take advantage of our guaranteed internship with a key partner to apply your skills in a real-world setting and enhance your professional experience.

CONTINUOUS DEPLOYMENT TOWARDS OPERATIONAL EXCELLENCE

Discover our DevOps training, designed to guide you through best practices for continuous deployment and effective integration, in order to maximize your team's operational efficiency.

4 DAYS

DEVOPS TOOLS
6 hours/day

Integration, deployment, and management of applications in a more efficient and collaborative way.

2 DAYS

PREPARATION A LA CERTIFICATION AZURE DEVOPS
6 hours/day
Acquiring the skills to master DevOps practices on the Azure platform.

PRACTICAL INTERNSHIP WITH PROSERVICES
4 DAYS
6 hours/day

Take advantage of our guaranteed internship with a key partner to apply your skills in a real-world setting and enhance your professional experience.

MASTER DATA ANALYSIS

Discover our specialized training on Power BI, including intensive preparation for the PL-300 certification. Gain the skills needed to excel in advanced data analysis with Microsoft.

4 DAYS

POWER BI
6 hours/day

Learn to transform your data into interactive visuals for informed decision-making.

2 DAYS

CERTIFICATION PREPARATION PL300
6 hours/day
Develop your skills to become an expert in data analysis with Power BI.

PRACTICAL INTERNSHIP WITH PROSERVICES
4 DAYS
6 hours/day

Take advantage of our guaranteed internship with a key partner to apply your skills in a real-world setting and enhance your professional experience.

ANNEXES

MANUAL TESTING

01 Objectives

- Join the Field of Testing and Validation
- Become a Tester with More Technical Knowledge
- Become a More Functional Tester
- Master the TestLink Tool

02 Program

- Manual Testing Introduction
- TestLink Installation
- Writing Test Cases in TestLink Based on User Stories from Proservices' Website (Unstable Version)
- Executing Test Cases in TestLink
- Writing Detected Bugs in Jira
- Testing Fixed Bugs on the New Version of Proservices' Website (Stable Version)
- Regression Testing
- Preparing the Test Report

Target Audience:

General Public

Prerequisites:

This training does not require any prerequisites.

AUTOMATED TESTING WITH SELENIUM

01 Objectives

- Understanding the Challenge of Functional Testing for Web Applications
- tions
- How the Selenium Tool Suite Addresses These Challenges
- Creating Test Scenarios
- Exporting Recorded Test Scenarios for Integration into an Automated Testing Campaign

02 Program

- Understanding Selenium WebDriver
- Designing Selenium WebDriver Interactions with an HTML Page
- Learning Advanced Features of Selenium WebDriver
- Using Selenium WebDriver for Functional Testing
- Optimizing Tests
- Preparation for A4Q Selenium Tester Certification

> 99
>
> *Selenium is an open-source tool available for automating the tests required to be performed on existing web browsers.*

01 Objectives

- Gain a deep understanding of the fundamental concepts of Cypress
- Learn how to create and execute automated tests for web applications using Cypress
- Acquire in-depth knowledge of best practices for test automation with Cypress

Target Audience:

For anyone passionate about automated testing

Program

- Understanding Selenium WebDriver
- Designing Selenium WebDriver Interactions with an HTML Page
- Learning Advanced Features of Selenium WebDriver
- Using Selenium WebDriver for Functional Testing
- Optimizing Tests

  Preparation for A4Q Selenium Tester Certification

02

Prerequisites:

This training does not require any prerequisites

AUTOMATED TESTING WITH CYPRESS

01 Objectives

- Writing Automated API Tests
- Understanding How to Test an API
- Using Postman to Interact with APIs in Different Ways
- Feel Confident in Your Ability to Contribute to Creating High-Quality APIs

01 Objectives

- Understanding API Principles
- Mastering Karate Syntax
- Creating Complete Test Scenarios
- Automating API Tests
- Handling Dynamic Data
- Integration with Other Tools
- Environment Management

02 Program

- Introduction to Postman and Installation
- Automating Test Data Sets
- Configuring the JSON Package to Launch Newman
- Creating, Updating, and Reading Environment Variables
- Data Set: Using a JSON File as a Data Set
- Using a CSV File as a Data Set
- Creating Test Collections
- Testing Web API Requests
- Creating a YAML File to Launch in GitHub: GET, POST, DELETE, PATCH...
- Global Variables: Create, Update, and Read Collection Variables

> **Postman is a simple and fast tool.**
> **You don't need to know how to code to use it.**

Program

- Introduction to API Testing
- Introduction to Karate
- Getting Started with Karate
- HTTP Requests with Karate
- Response Validation
- Advanced Request Parameters
- Test Data Management
- Reusability and Modularity
- Automation
- Advanced Testing & Best Practices

02

Prerequisites:

Those who want to learn how to use Postman from scratch.

Target Audience:

Software Development, Automated Testers, and QA Engineers.

Prerequisites:

Knowledge in IT, APIs, and software testing.

Target Audience:

Those who want to learn how to use Postman from the ground up

DEVOPS

01 Objectives

- Understanding DevOps Principles
- Mastering DevOps Tools
- Exploring Workflows, Automation, and Dependencies
- Applying DevOps in an Enterprise Environment
- Addressing Real-Life Examples and Analyzing the Results

02 Program

- Introduction to Linux
- Introduction to DevOps
- Agile Methodologies & Project Management
- Jenkins (CI): Understanding Continuous Integration with Jenkins Version Control with GIT
- Configuration Management & Automation: Ansible
- Containerization: Docker
- Cloud Computing
- Monitoring & Supervision
- Preparation for Azure DevOps Certifications

Target Audience:

Those who want to start a career in DevOps

Prerequisites:

Knowledge in computer science and agile methodologies will be an asset.

BUSINESS INTELLIGENCE

01 Objectives

- Create interactive dashboards
- Integrate and transform data
- Master advanced data analysis
- Achieve the international PL-300 certification

02 Program

- Introduction to Data Analysis
- Data Analysis with Power BI
- Power BI Data
- Data Transformation and Combination
- Data Modeling
- Interactive Data Visualization
- Securing Reports
- Preparation for the International PL-300 Certification

Target Audience:

Anyone wishing to acquire skills in Business Intelligence

Prerequisites:

A basic understanding of computer science, Excel, and databases

![UPES - Private Faculty of Management Sciences & Technology]

Double Certified:

ISO 21001 : 2018
ISO 9001 : 2015

Contact

Do you have any questions or want to learn more? Contact us! We would be happy to discuss with you and help you find the right training for you.

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23 years
OF EXCELLENCE