



Professional Certification Program



# Game Programming in



UNREAL ENGINE

Your path to creating amazing Games



Format  
**Blended learning**



Duration  
**12 Weeks**



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pcp@musteducation.tn



# ABOUT THE PROGRAM

Our Comprehensive 12-week training program (120 Hrs) is tailored to game enthusiasts and aspiring game developers of all ages. It is designed to equip them with foundational object-oriented programming skills as well as practical game developing skills in Unreal Engine. The training is concluded by three workshops and a final project offering a valuable practice experience within a leading game development startup.

Embark on an intensive training journey designed to elevate your programming skills and propel you into the dynamic world of game development! This comprehensive program kicks off with a **four-week immersion in C++**, blending online self-paced sessions from Codio via Coursera with engaging instructor-led sessions at MUST University. This first part is tailored for participants with basic programming knowledge, aiming to solidify their grasp on object-oriented principles and C++ practices.

Following this, participants dive into **eight weeks of immersive hands-on sessions working on authentic Game programming projects in Unreal Engine at Academy Interactive**. During this second part, participants will have the unique opportunity to interact with industry professionals, receiving invaluable mentorship and insights. Formal training modules, practical projects, enriching talks, and exclusive studio visits converge to blend theory with real-world application and prepare aspiring developers to a successful career in this exciting field.



# Object-oriented programming fundamentals

*First Part of Program at*



MUST University  
LAC 3, Tunis

## MUST University & CODIO Instructors



**Aziz Souai**  
MUST University



**Elise Deitrick**  
CODIO



**Kevin Noelsaint**  
CODIO



**Anh Le**  
CODIO



**Weeks**  
1 to 4



**40**  
Hours

## A hands-on introduction to C++

- Dive deep into the fundamentals of C++ programming
- 10 hrs/week with online self-paced sessions & instructor-led sessions
- Earn a certificate from CODIO



# Practical Internship : Immersive hands-on sessions

*Second Part of Program at*



**Academy Interactive**  
Rue de l'énergie, Tunis

## Academy Interactive Instructor



**Oussama Ben Mariem**  
Academy Interactive



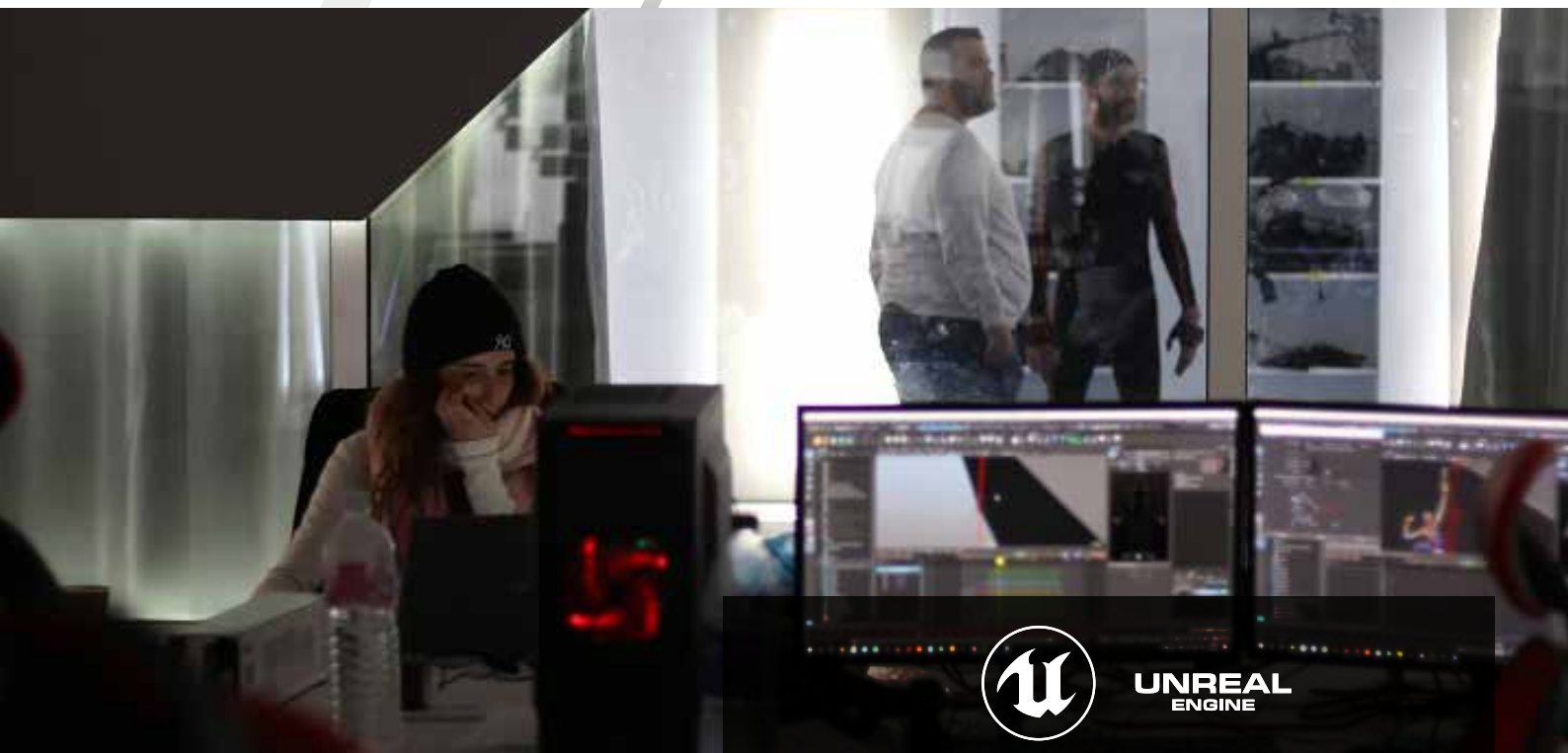
**Weeks**  
5 to 12



**80**  
Hours

## Guided projects at Academy Interactive, Real-world game programming

- Enriching talks
- Studio visits
- Mentored final Certification project



**UNREAL**  
ENGINE

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# Introduction to Game Development



Weeks 5 to 6

You will learn how to :

- Create your game using Unreal Engine 5
- Construct a customized character mechanics using Unreal Engine's powerful tools
- Balance Blueprint and C++ in Game Development
- Gain insights into the essential components that shape compelling gameplay



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# Advanced Concepts in Game Development



Weeks 7 to 8

AI in game development

- Introduction to AI with Blueprints
- *Workshop A : Your first game with Unreal engine (part 1)*
- Create your first User Interface using Unreal Motion Graphics UI Designer (UMG)
- Creating a Scatter Tool with Blueprints.
- Converting Blueprint to C++
- *Workshop B : Your first game with Unreal engine (part 2)*
- Game Studio Visit



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# Advanced Concepts in Game Development



Weeks 9 to 12

Exploring Level Design

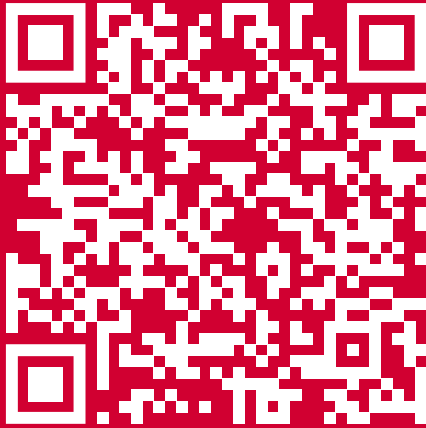
Blueprint Runtime Saving and Loading

Optimizing Projects for Real Time

- *Workshop C : Your first game with Unreal engine (part 3)*

Bring together all aspects learned in previous workshops to complete your initial game project.

Grab this  
**Life-changing  
Opportunity**



**MUST**  
UNIVERSITY

#### **ABOUT MUST UNIVERSITY**

*MUST University stands as a trailblazing institution of higher learning nestled in the vibrant Lac 3 suburb of Carthage, Tunisia. MUST University offers full-time and part-time programs in Software Engineering, Data Science, AI, and Cybersecurity, seamlessly blending academic rigor with real-world experience. Inspired by the North American model, MUST programs are delivered through innovative methods such as blended, active, and service learning.*



#### **ABOUT CODIO**

*Codio is the hands-on learning platform supporting better outcomes in computing and tech skills education and is used by some of the world's largest and most prestigious higher education institutions to deliver engaging courses at scale.*



#### **ABOUT ACADEMY INTERACTIVE**

*Academy Interactive is an institute providing high-quality applied training in game development specializations for professionals and enthusiasts.*

[www.mustuniversity.tn](http://www.mustuniversity.tn)