

PROFESSIONAL CERTIFICATE IN
Interactive 3D & Game Development
with Unreal Engine

ONLINE LEARNING



NEW RAIN
MULTIMEDIA INSTITUTE



NEW RAIN

MULTIMEDIA INSTITUTE

New rain multimedia institute is one of the best online multimedia course provider in Sri Lanka. We have created a very friendly virtual learning environment with the latest technologies. Whether you are new to the creative industry or looking to improve your skills, we have the right online course for you. Well-qualified, experienced certified instructors train the participants with easy-to-use step-by-step training material in the most optimized period of time. We are so sure about the quality of our certification because we are conducting online courses join with the Sri Lanka Tertiary & Vocational Education Commission, Sri Lankavocational training authority, Nenasala campus & Asian education institute & etc.

We do not stop there. New rain expanded online education in the fields of ICT & Computing, Business Management, Hospitality Management, Engineering, Personal & Professional Development, Language Training and Corporate Training.

Content

Interactive 3D & Game Development

with Unreal Engine

- Welcome
- Course overview
- Course Outcomes
- Course content
- How is the course delivered?
- Outcome Assessment Strategies
- Resource Persons
- Course hours & credits



Welcome |

How the Video Game Industry Is Changing

Video games have been around for decades, providing entertainment for children and adults alike. They have evolved significantly from the early days of computer games and the first versions of Nintendo and Atari. The days of pixelated screens and limited sounds are a distant memory as video games have become more lifelike than ever. As technology continues to improve, so do video games.

Video game creation has become increasingly complex, and the cost of creating a game to run on one of the major consoles has risen with this greater complexity. It was once unthinkable to sink millions into development costs, but games today can cost tens and even hundreds of millions. This has pushed game development into Hollywood movie territory in terms of production and marketing costs.

The video game sector is immensely large. In fact, it is larger than the movie and music industries combined, and it is only growing. Though it doesn't get the same attention that the movie and music industry does, there are over two billion gamers across the world. That is 26% of the world's population.

It's no surprise that companies want a piece of the pie. In 2020, the gaming industry generated \$155 billion in revenue, By 2025, analysts predict the industry will generate more than \$260 billion in revenue.¹ As such, tech companies are looking to get involved in this revenue stream. Tech giants such as Google (GOOGL), Meta (FB), formerly Facebook, and Apple (AAPL), have all made plans to enter the video game industry.

WANTED

BURGLARY • AGGRAVATED



Real name: Selina Kyle
Case no: 20-100
Weight: 125 lbs
Hair: Black

Last seen: Gotham
Height: 5'7"
Eyes: Green

Suspect should be considered armed
Contact the Gotham City Police Department

GOTHAM CITY POLICE

WANTED

BURGLARY • AGGRAVATED



Kyle
Las
He
Eye

W
H

Suspect should be considered armed
Contact the Gotham City Police Department

Considered armed
Department

GOTHAM CITY POLICE

ICE

Course Overview

Who is this course for?

This program is specially designed for students who have the ultimate intention of becoming Game developer. Candidates should possess basic IT knowledge & skills to grasp the edges of each unit available in the relevant course content.

Also, the program is open for people with past work experience, mature learners may present a more varied profile of achievement that is likely to include extensive work experience (paid and/or unpaid) and/or achievement of a range of professional qualifications in their work sector.

What will you learn?

In this class, students will learn how to create Interactive 3d & video games using the Unreal engine the world-leading professional game development tool. No prior experience of Unreal engine or coding is required! With our tutorials, students will learn coding concepts, 3-D game design concepts like object creation, collision, UI tools, Rigibody, 3-D Physics while creating multiple game projects to showcase their skill

Course Outcomes

Upon successful completion the student will be able to:

- 01 Master basic game development (produce, test and present a beta version of a game of your own design).
- 02 Understand game design.
- 03 Have immersed yourself in the Danish "indie" gaming community.
- 04 Use the Unity Editor to create interesting game levels.
- 05 Create game scripts using Codings.
- 06 Understand the fundamentals of Interactive 3D.
- 07 Become acquainted with advanced topics such as shaders, physics, AI, and Network based games.
- 08 Understand the process of game development from idea to beta version.
- 09 Apply theories and develop and test an actual game.

Course Content

- 01. Getting Started with the Industrial Background.**
- 02. Project Creation and Getting Familiar with Level Editor User Interface.**
- 03. Quick Start as a Level Designer.**
- 04. Quick Start as a Content Creation Artist.**
- 05. Quick Start as a UI/UX Artist.**
- 06. Quick Start as an Animation Artist.**
- 07. Understanding Blueprints Part 01.**
- 08. Understanding Blueprints Part 02.**
- 09. Project Creation & Setup Basic Game Mode.**
- 10 Working on Driving Mechanics & Timed Checkpoints**
- 11 Setting up HUD UI with Animations.**
- 12 Level Design with Materials, Decals and Meshes.**
- 13 Adding Camera Effects including Camera Shakes.**
- 14 Using Sequencer for Cinematics and Cutscenes.**
- 15 Polishing the Game & setup final preparations.**
- 16 Creating Executable File by Packaging the Game.**

Resource persons who deliver the program



RAVINDU OMANTHA
CO-FOUNDER / HEAD OF RAM STUDIOS
B.sc. Engineering
University of Peradeniya

Course Delivery



Supporting your online learning journey...

The Professional Certificate In Game Developing is available to study online via the New Rain Multimedia Institute's dynamic online learning environment.

How we can guide you through your online learning journey:



Access HD video lectures with accompanying downloadable course material.



Discussion forums, to interact with fellow students and a tutor with an expertise in multimedia skills and practices.



Access resources to help you with your studies including self-directed practical exercises and recommended reading.



The LMS can be accessed 24/7 through your desktop or mobile device.



Your Programme Manager is available to support you during your study and assist with any administrative related queries you may have.



Outcome Assessment Strategies

Assessment is designed to indicative achievement of the course outcome and performance tasks. The instructor will outline the methods used to assess student progress and the criteria for assigning a grade at the beginning of the course. Assessment will be based upon a combination of in-class participation", attendance, examinations, and quality of the multi-media project(s). Determination of problem solving skills, team work, and communication skills may also be included.

Entry requirements

Basic Knowledge of should possess basic IT knowledge & skills to grasp the edges of each unit available in the relevant course content.

Duration

02 Months / 2 day per week / 2 hours per day / 32 Lecture hours.



For more information or to
register for a course please
contact us

Tel : +94 76 688 3365
email : info@newrain.lk
web : www.newrain.lk