Curriculum forthecourseof

GAME DEVELOPMENT

CourseInstructor – Banoshree Bose

Learning Objectives

This course will provide a basic hands-on walkthrough about creating a 3D game in Unity Game Engine. It covers topics such as environment design, level design, basic animation setup, gameplay programming and UI scripting.

Learning Outcomes

At the end of the course participants should be able to -

- Set up a 3d environment
- Design levels for a 3d game
- Create animation blend trees
- Program the workflow of a game
- Create a basic score and button UI for a game

Prerequisites

The student must have some programming background. A little prior knowledge of C# programming and OOP will be beneficial.

Schedule

Introduction to Game Engines and downloading unity				
Introduction to Unity UI; Adding Gameobjects; Creating Materials				
Introduction to unity asset store and importing assets; basic level design; adding skybox; setting up camera				
Introduction to scripts; creating basic movement scripts; introduction to movement inputs				
Introduction to lighting				
Introduction to terrains				
UI programming for game				
Introduction to characters in unity				
Animation Tree Programming				
Adding basic animation to characters				
Creating a score and highscore system, introduction to playerprefs				
Creating timer, play, pause, exit	1 class			
Deploying the game				
Total classes	29 classes			