



# SMART FUTURE POINT<sup>®</sup>

(A unit of SFP Education & Technology Pvt. Ltd.)

**TRAINING | PLACEMENT | SERVICES**

## **Course: Diploma In Mobile Application Development**

**Fee:** Rs.85500

**Duration:** 1 year

**Syllabus:-**

### **Detailed Syllabus**

#### **📁 Module 1: Introduction to Game Development**

- History & evolution of games
- Types of games (2D, 3D, FPS, RPG, Mobile, VR/AR)
- Overview of game engines (Unity, Unreal, Godot)
- Game development pipeline

#### **📁 Module 2: Programming for Games**

- **Languages:** C#, C++, Python (for scripting)
- Object-oriented programming (OOP) concepts
- Game loops, event handling & input management
- Debugging & optimization

#### **📁 Module 3: Game Design & Mechanics**

- Game design principles & storytelling
- Player mechanics (movement, controls, physics)
- Camera & UI systems
- Game balancing & difficulty scaling

#### **📁 Module 4: 2D & 3D Game Development**

- **2D Games:** Sprites, animations, tile maps, physics
- **3D Games:** Models, textures, lighting, shaders
- Level design & environment building
- Character animation & rigging

#### **📁 Module 5: Game Physics & AI**

- Rigid body physics, collisions, gravity

- Pathfinding algorithms (A\*, NavMesh)
- Enemy behavior & decision-making
- AI-driven NPC interactions

## 📁 **Module 6: Multiplayer & Networking**

- Basics of multiplayer game architecture
- Client-server models, synchronization
- Implementing matchmaking & leaderboards
- Real-time vs turn-based multiplayer

## 📁 **Module 7: Sound & Visual Effects**

- Background music & sound effects (SFX)
- Particle systems & post-processing effects
- UI/UX for immersive gameplay

## 📁 **Module 8: Game Monetization & Deployment**

- In-app purchases, ads, and premium models
- Publishing on Steam, Play Store, App Store
- Marketing & player engagement strategies
- Game updates & community management

## **Contact Us:**

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