HIGHER NITEC IN TECHNOLOGY - IMMERSIVE APPLICATIONS & GAME

Course Code: HT2IG / Plan Code: HT2IG

COURSE OBJECTIVE

This course equips students with skills and knowledge to create games and immersive applications for various sectors including retail, education, healthcare, real estate, media and entertainment.

COURSE STRUCTURE

Core/Specialisation Modules

	/Specialisation modules					
S/N	Module Details	Module Code	Module Objectives			
MSC:	Gamification & Asset Cr	eation				
C1	Gamification Concept 30 (T) 30 (P) Credits 3 Prerequisite: Nil	GD43001FP Equivalent Code GD4111FP	On completion of the module, students should be able to conduct research, design contents and apply gamification approach to create game design document.			
C2	Game Asset Creation	GD43003FP	On completion of the module, students should			
	20 (T) 40 (P) Credits 3 Prerequisite: Nil	Equivalent Code GD4213FP	be able to conduct art direction research and prepare art asset requirements. They will also be able to produce and perform checks on final 2D and 3D artworks.			
MSC:	Game Programming & D	evelopment				
C3	Game Programming 30 (T) 30 (P) Credits 3 Prerequisite: Nil	GD43002FP Equivalent Code GD4112FP	On completion of the module, students should be able to apply programming concepts to implement game programs, perform game debugging and code optimisation using C# programming.			
C4	Game Development	GD43004FP	On completion of the module, students should			
	30 (T) 30 (P) Credits 3 Prerequisite: Nil	Equivalent Code GD4113FP	be able to integrate game scripts, perform rapid prototyping and present mini prototypes.			
MSC:	Game Level & Visualisat	ion				
C5	Game Level Production 10 (T) 50 (P) Credits 3 Prerequisite: Nil	GD43005FP Equivalent Code GD5111FP	On completion of the module, students should be able to create, edit and beautify game levels in accordance with the game theme and genre set. Students should also facilitate game play sessions and refine the game levels from the feedback received.			
C6	Built Environment	GD53001FP	On completion of the module, students should			
	Visualisation 30 (T) 30 (P) Credits 3 Prerequisite: Nil	Equivalent Code GD5213FP	be able to use reality capture tools and technologies to replicate physical worlds into virtual environments for digital assets creation.			
MSC: Immersive & Geospatial Applications						
C7	Immersive Applications 20 (T) 40 (P) Credits 3 Prerequisite: Nil	GD53002FP Equivalent Code GD5213FP	On completion of the module, students should be able to develop immersive application by integrating user interface and audio in game engine for various immersive platform and mobile devices.			
C8	Geospatial Applications 30 (T) 30 (P)	GD53003FP Equivalent Code Nil	On completion of the module, students should be able to apply Geospatial concepts for decision making and integrate geospatial data			

Credits 3	to game engine for development of location-
Prerequisite: Nil	based applications.

Abbreviations: T - Theory, P - Practical, MSC - Modular Skills Certificate

CREDITS FOR CERTIFICATION

Total of 24 credits from successful completion of 8 Core/Specialisation modules.

Applicants who do not meet the entry requirements for Core/Specialisation modules will need to complete 12 credits from 4 Foundation modules before taking Core/Specialisation modules.

Foundation Modules

S/N	Module Details	Module Code	Module Objectives
F1	Digital Media Technologies 30 (T) 30 (P) Credits 3 Prerequisite: Nil	IT33001FP Equivalent Code Nil	On completion of the module, students should be able to apply their knowledge and skills in processing appropriate digital media formats for various platforms delivery.
F2	Fundamentals of Data 20 (T) 40 (P) Credits 3 Prerequisite: Nil	DE33001FP Equivalent Code Nil	On completion of the module, students should be able to import data from external sources, perform basic data manipulation and present simple visualisation of the data.
F3	Introduction to UI/UX 10 (T) 50 (P) Credits 3 Prerequisite: Nil	IT33002FP Equivalent Code Nil	On completion of the module, students should be able to apply User Interface (UI) and User Experience (UX) development process to produce low-fidelity and high-fidelity wireframes and prototypes for websites and mobile apps.
F4	Web Development Essentials 20 (T) 40 (P) Credits 3 Prerequisite: Nil	IT33003FP Equivalent Code Nil	On completion of the module, students should be able to develop web pages using HTML and CSS.

Abbreviations: T - Theory, P - Practical

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Note

- 1) The training schedule of lessons is subject to change.
- 2) Depending on the demand, not all the modules in the CET *Higher Nitec* in Technology courses will be offered in each intake. Where the modules are offered and there is insufficient enrolment, the classes will be cancelled and a full refund will be given to the affected students.