

Department of Information Technology

INSTRUCTIONAL OFFERING: ADVANCED DEVELOPMENT SOFWARE

IV

ADS42AB

INSTRUCTIONAL PROGRAM: B. TECH INFORMATION TECHNOLOGY

EXAMINATION: NONE (Continuous Evaluation)

-SYLLABUS-

1. 3D Mobile Games Programming for the Android Environment

-EXPANDED SYLLABUS-

Assessment	4 assignments/tests (40%) & 1 project (60%)
Credits	12
NQF Level	7
Type of learning	Continuous Evaluation

UNIT	SPECIFIC OUTCOME	ASSESSMENT CRITERIA	CREDITS	NOTIONAL	WEEKS
1	Demonstrate an understanding OpenGL ES	Discuss how Vertices are to be used in three-dimensions Investigate Perspective projection, meshes and matrices.	2	20	2
2	Demonstrate the ability to develop a small application by implementing three-dimensional programming techniques	To create a small application in order to understand the implementation of OpenGL ES Critically investigate some of the common programming techniques used in three-dimensional software development Vectors Lighting Mip-mapping	2	20	2

		CamerasModelsCollisions			
3	Demonstrate an understanding of the design of OpenGL ES applications	Create a small application in order to understand the design of OpenGL ES applications Critically investigate the components that comprise an OpenGL ES application	2	20	2
4	Demonstrate an understanding of publishing a mobile application and incorporating social features	Discuss the various methods available to publish mobile applications Investigating how social, location, and multiplayer can be incorporated into mobile applications	2	20	2
5	Demonstrate an understanding of all concepts covered by completing various assignments and a large project.	Assignments. Project.	4	40	4