

Title of Skill Course: 3D Maya Animator

1. Sector: Media and entertainment
2. Subject: Animation Science
3. Year of implementation:2020

Course Structure

Skill Level	Theory Hours	Practical Hours	Total Hours	Credits	No. of students in batch
5	20	30	50	3	30

Syllabus**Course Objectives:**

1. Students will be able to work abstractly with dynamics and forces for diagrammatic representation in Maya software.
2. Students will be able understand Joint Hierarchies.
3. Students will be able to apply basic rendering and animation techniques to visualize a design using Maya software.

Theory Syllabus

Credits (Total Credits 2)	Sub Points	No. of hours
UNIT-I	Rigging	(10)
	Creating and Organizing Joint Hierarchies, Orienting Joints & Naming Joints, Rigging the IK & Spline IK, Creating Custom Attributes, Skinning Geometry, Paint weight	
UNIT-II	Character Animation	(10)
	Basic Character Animation, Pose-to-Pose blocking, Refining Animation, Non-Linear Animation, Modifying, blending and Sharing Clips with dynamics	

Reference Books:

1. 3Ds Maya Bible – by by Kelly L. Murdock
2. Mastering Autodesk 3ds Maya-by Jeffrey M. Harper
3. 3Ds Maya Lighting- by Boughen, Nicholas

Practical Syllabus

Credits (Total Credits 1)	Practical	No. of hours 30
	1. Character setup overview 2. Building and posing skeleton 3. Creating Basic IK and FK 4. Creating controllers 5. Parenting and paint- weight 6. Basic Animation (Cloth, Light etc.) 7. Path Animation (Car, Windmill) 8. Key frame Animation Inorganic 9. Key frame Animation organic 10. Animating and rendering 3D Scene using dynamics	

Course Outcomes:

1. Apply Advance concepts of animation in the field of 3D Animation, Digital Games, Film Making, Post production.
2. Create 3D characters and environments that reflect the integration of graphic clarity.
3. Apply design principles, performance principles and experimental constructs.

1. BOS Sub Committee:

Sr. No.	Name of Member	Designation	Address
1	Mrs. Bhambure R.V.	Chairman	YC, Institute of Science, Satara
2	Mr. Pawar M.B.	Member	YC, Institute of Science, Satara
3	Mr. Chavan A.S.	Academic Expert	Tiranga Animation College, Baramati.
4	Mr. Kotteswaran. N.	Industrial Expert	Image Infotainment Ltd., Hyderabad.