Blender

[2 Credits 30 hours]

Course Objective:

The course is intended to visualise and design realistic 3D object models and to learn to animate them using Blender

Learning Outcome:

The students will be able to design realistic 3D objects and use them to create animated video clips.

Course Content

1. Introduction to 3D Visualization: Introduction, Visualizing 2D Views of a 3D Object, Visualize Shapes at Right Angle, Identifying Hidden Surfaces, Constructing a 3D Object from 2D Views. (5)

2. The Blender Interface: The Blender Screen. Window Types, The User Preferences Window, Open, Saving and Appending Files, Packing Data, Importing Objects (from other file formats), Moving Around in 3D Space, Window and Button Control, Creating Viewports. (5)

3. Creating Object and effects: Creating and Editing Objects and Materials and Textures. Working with Basic Meshes, Using Main Modifiers to Manipulate Meshes, Edit Mode-Mesh Editing. The Tool Shelf, Proportional Editing, Joining/Separating Meshes, Halo, Basic Texture Settings. Using Images, Movie, Displacement Mapping, Color, Stars and Mist, Lighting and Cameras, Render Settings, Ray-Tracing (mirror, transparency, shadows).(7)

4. Animation Basics and Adding 3D text: Basic Key-framing and Auto Key-framing, Working with the Graph Editor and Dope Sheet. Animating Materials, Lamps and World Settings, Rendering animation, Exporting animations to desired format, Blender 3D Text Settings and Converting to a Mesh. (7)

5. Creating the Mini Project (6)

References:
1. James Chronister," Blender Basics Classroom Tutorial Book", cdschools.org 4th Edition.
2. Blain John M. The Complete Guide to Blender Graphics (English, Paperback, Blain John M.), Taylor & Francis Inc.

Ms Shilpa Naik

Dhempe College of Arts & Science

Miramar – Goa.

Academic Year : 2016 - 17

SHORT TERM COURCE ATTENDANCE SHEET

Name of the Course : **Blender**

Class :- FYBSc.

Topic : **Blender**

Batch :- **FY BSc.**

Lecture No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Name of Student																														
Aaron Felix Pires	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	A	A	P	P
Amey Avinash Bhoke	P	P	A	A	P	P	P	P	P	P	P	P	A	A	P	P	A	A	P	P	A	A	A	A	P	P	A	A	P	P
Savitabai Chavan	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P	P	A	A	A	A	P	P	P	P	P	A
Pratibha Durbhatkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P	P	P	A	A	P	P
Nehal S. Panicker	P	P	P	P	A	A	A	A	P	P	P	P	A	A	P	P	P	P	A	A	A	A	P	P	P	P	A	A	P	P
Riya Damodar Naik	P	P	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P
Sakaj Santosh Harmalkar	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P
Siddharth Bhattacherjee	P	P	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P	A	A	P	P	P	P	P	P	A	A	P	P	P
Frazier Gilchrist Fernandes	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Bhakti Kamat Ghanekar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Bhakti Alias Ambca Naik	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P	P	P	A	A	P	P	P	P	P	P	P
Fakir Sab Shaikh	P	P	P	P	A	A	A	A	A	A	P	P	A	A	P	P	A	A	P	P	A	A	P	P	P	P	P	P	A	A
Rochelle Martins	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Chetana Ashok Marathe	P	P	P	P	P	P	P	P	A	A	P	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P
Omkar Vinayak Nadkarni	P	P	P	P	A	A	P	P	A	A	P	P	P	A	A	P	P	P	A	A	P	P	P	P	P	A	A	P	P	P
Sawani S.A.Sulporkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P
Savita Maria Cabral	P	P	P	P	A	A	P	P	A	A	A	P	P	A	A	A	A	P	P	A	A	P	P	P	P	P	A	A	P	P
Sharvari Jai Krishna Naik	P	P	P	P	P	P	P	P	A	A	P	P	A	A	P	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P

Name & Signature of the Teacher **Ms. Shilpa Naik**

In-Charge **Ms. Shilpa Naik**

Dempo Charities Trust's
Dhempe College of Arts and Science
Panaji, Goa

1. Name: **Blender**
   Class: FYBSc Computer Science
   Number of Students: 18
   Fees charged: Rs 1500 per student
   Duration: 40 hours
   Aim: To learn basics of 3d animations.
   Conducted from: 4th january 2017 to 30thjanuary 2017
   Instructor: Mr Saurabh Naik

   The course includes creation of bas7c 3d objects, drawing, scaling, camera movemenrs, rendering animation. The course was conducted for FYBSc Computer Science students for the academic year 2016-17. The course of 40 hour duration was conducted during January 2017.