



**Dempo Charities Trust's
DHEMPE COLLEGE OF ARTS & SCIENCE
Miramar, Panaji-Goa**

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.

Dr. S. S. Nark
Ms. Shilpa Nark

Dempo Charities Trust
Dhempe College of Arts & Science

Miramar - Goa.

Academic Year : 2019 - 20

SHORT TERM COURSE ATTENDANCE SHEET

Name of the Course : Blender

Topic : _____

Class :- S.Y.BSc

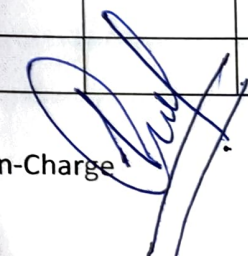
Batch:- _____

| Lecture No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Date:- | 07/12/2019 | 14/12/2019 | 21/12/2019 | 04/01/2020 | 04/01/2020 | 08/01/2020 | 21/01/2020 | 01/02/2020 | 08/02/2020 | 15/02/2020 |
| Time:- | 1-3pm | 1-3pm | 1-3pm | 01-3:00pm | 1-3pm | 1-3pm | 1-3pm | 1-3pm | 1-3pm | 1-3pm |
| Roll no. | Name of Student | | | | | | | | | |
| 18263 | Harshal Gosavi | <u>Har</u> | <u>Har</u> | <u>Har</u> | <u>Harshi</u> | <u>Harshi</u> | <u>Harshi</u> | <u>Harshi</u> | <u>Harshi</u> | <u>Harshi</u> |
| 18292 | Tejaswini Josti | <u>Tejaswini</u> | <u>Tejaswini</u> | <u>Tejaswini</u> | <u>Tejaswini</u> | <u>Tejaswini</u> | <u>Tejaswini</u> | <u>Tejaswini</u> | <u>Tejaswini</u> | <u>Tejaswini</u> |
| 18295 | Rohan Vishwakarma | <u>Rohan</u> | <u>Rohan</u> | <u>Rohan</u> | AB | AB | AB | <u>Rohan</u> | <u>Rohan</u> | <u>Rohan</u> |
| 18287 | Jakshella Nadaf | <u>Jak</u> | <u>Jak</u> | <u>Jak</u> | AB | AB | AB | AB | AB | <u>Jak</u> |
| 18264 | Dishal Naik | <u>Dishal</u> | <u>Dishal</u> | <u>Dishal</u> | AB | AB | AB | AB | AB | <u>Dishal</u> |
| 18294 | Omkar Naik | <u>Omkar</u> | <u>Omkar</u> | <u>Omkar</u> | <u>Omkar</u> | <u>Omkar</u> | AB | AB | AB | <u>Omkar</u> |
| 18289 | Sajid Nadaf | <u>Sajid</u> | <u>Sajid</u> | <u>Sajid</u> | <u>Sajid</u> | <u>Sajid</u> | AB | AB | AB | <u>Sajid</u> |
| 18268 | Jason Maschor | <u>Jason</u> | <u>Jason</u> | <u>Jason</u> | AB | AB | AB | AB | AB | <u>Jason</u> |
| 18269 | Shivram Gowas | <u>Gowas</u> | <u>Gowas</u> | <u>Gowas</u> | <u>Gowas</u> | <u>Gowas</u> | AB | AB | AB | <u>Gowas</u> |
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Name & Signature of the Teacher

Ms. Sonali Sawesh Karapurka
Saweshkar

In-Charge



Dempo Charities Trust
Dhempe College of Arts & Science

Miramar – Goa.

Academic Year : 2019 - 20

SHORT TERM COURSE ATTENDANCE SHEET

Name of the Course : Blender

Topic : _____

Class :- S.Y. BSc

Batch:- _____

| Lecture No. | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------------|-------------------|------------|------------|----------|---------|---------|---------|---------|----|------------|
| Date:- | 22/02/2020 | 29/02/2020 | 07/03/2020 | 07/03/20 | 12/3/20 | 19/3/20 | 14/3/20 | 14/3/20 | | |
| Time:- | 1-3pm | 1-3pm | 1-3pm | 3-5pm | 1-3pm | 3-5pm | 1-3pm | 3-5pm | | |
| Roll no. | Name of Student | | | | | | | | | |
| 18263 | Harshal Gosavi | | | | | | | | | Online |
| 18292 | Tejashwini Joshi | | | | | | | | | Classes |
| 18295 | Rohan Vishwakarma | | | | | | | | | Conducted |
| 18287 | Lakavolla Nadaf | | | | | | | | | from Home |
| 18264 | Dishal Naik | | | | | | | | | with |
| 18294 | Smkar Naik | | | | | | | | | Project |
| 18289 | Sajid Nadaf | | | | | | | | | submission |
| 18268 | Jason Marchon | | | | | | | | | |
| 18269 | Shivam Sawas | | | | | | | | | |
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Name & Signature of the Teacher

Ms. Sonali Divesh Karapurkar
Sonali

In-Charge





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

Report of Value-added courses held in the academic year 2019-2020

Name of the Course : **Blender**

Introduction to Blender, working with Blender package. software understanding graphics, used for creating 3D animations, videos, art etc., video editing and animation& Rigging

No. of students : **10**

Fees : **Rs.1500/-**

Resource Person : **Mrs. SonaliKarapurkar**

Co-ordinator : **MsTejaKundaikar**

Duration: (Dates) From : **07/01/2019 to 28/03/2020 (40 contact hours)**
Completed

Attendance Record Maintained/Not Maintained : **Maintained**

Certificates: Issued/Not issued : **Not Issued**

Proposal: Submitted/Not submitted : **Submitted**

Student forms: Submitted/Not submitted : **Submitted**

Bills: Settled/Not settled : **Not settled**