



UPES

Graphics and Animation Tools

ACADEMIC SESSION 2020-21

B.Tech CSE –Open Source and Open Standards

Sem VII

PRACTICAL WORK FILE

EXPERIMENT 7

[\[LINK TO OUTPUT FILES\]](#)

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EXPERIMENT 7 : 3D Rocket Using Blender.

Objective:

To design a 3D Rocket using Blender

Requirements:

A Ubuntu 18.04 10 running system with 6 GB RAM was used to carry out the experiment.

Steps to create a 3D Rocket

1. Open Blender
2. Delete the pre-inserted object
3. Add a Cone object (Vertices =12)
4. Scale it down a little
5. Shift the object to top mid of the view
6. Press Tab to toggle to editor view
7. Select the bottom face using face selector
8. Press E or Select extrude option from the editor pane and bring down the bottom face, almost double the height of cone to make the body of the rocket
9. Press E again and make the bottom component of the body in a similar way
10. Scale in the bottom component
11. Press E on 4 separate faces of the bottom component to make the feet/wheels of the rocket.
12. Scale up/down the object
13. Scale down to 0.7 every face of the 4 landing feet of the rocket.
14. Extrude up the bottom face to show thrust animation.

Steps to Render

1. Add a plane object and set it child (with keep transform checked to the 3d Text Object)
2. Add light and place it in a suitable position
3. Add camera, Press CTRL+ALT+0 (Num) to position it along the view port
4. Click render on top left
5. Save the output image as PNG.

SNIPPETS







