

Course Objective:

To learn online 3D modeling and get introduced to constructive solid geometry through the program.

Logistics:

Course will be run over google meet weekly Saturdays from 11-12 pm EST from Apr 23 2022 – Jun 04 2022.

Course Outline:

Day 1

- TinkerCAD Overview (what is TinkerCAD?)
- Account Creation/Join classroom
- TinkerCAD Dashboard
- Simple Shapes (Smiley Face project)

Day 2

- Moving, Rotation, and scaling Objects
- Making and manipulating Grouped Objects
- House Project

Day 3

- Scribble Feature (veggie project)
- Code blocks
- Face Project (make a face in code blocks)

Day 4

- Electricity
- Circuits in TinkerCAD
- Light project

Day 5

- Parallel and series circuits
- Complex circuits
- Arduino
- Take home project

Day 6

- Complex Arduino final project
- Feedback
- Student presentations/outro

Contact Us:

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