

e-Yantra Robotics Competition (eYRC-2017) Task 1: Transporter Bot

Problem Statement 1

In this, you will be creating models for the following: **Fruits**, **Crates** and a **Truck** with sections for storing the crates with fruits (sample images are given for reference in Practice/ Problem Statement 1/Reference Images folder).

Use your creativity in making these models -- you may come up with your own models with different colors, text, shapes, lights or textures to make them more realistic. Bonus points will be awarded for creativity.

Note: For each question, make one separate Blender file.

Question 1:

After watching the 'Tutorials on Blender modules', make any four types of fruits in a blend file. Figure 1 shows one example of a fruit. Strive for precision while modeling. Apply material and texture to the models.



Figure 1: Sample Fruit

Question 2:

Create the model for crate and place fruits (created in Question 1) of same type in it. Crate should be designed in such a way that fruits are clearly visible. Figure 2 and Figure 3 show crate models. As there are four different types of fruits, create four crates in a blend file. Apply material and texture to the model.



Figure 2: Sample Crate



Figure 3: Sample Crate with Fruits

Question 3:

Create the model for truck having four sections for four different kinds of fruit crates. Each section should accommodate a maximum of four crates. Figure 4 shows model of a truck. Apply material and texture to the model.



Figure 4: Sample Truck

Finally, render a .jpg file of each model and make a folder named “Problem Solution 1”. Folder should contain three blend files and three image files having the naming convention as Question_n.blend and Question_n.jpg.