**Instructor Lesson Plan Outline**

1. Introduction to lecture topic (5 min)
   1. Explain the goal of building a cluster
   2. Background of why we want to build the cluster
2. Material check (5 min)
   1. Explain the required materials
   2. Explain the purpose of the components
   3. Ensure every group has the required materials
3. Build the cluster (10 min)
   1. Connect all the components together to build a cluster
   2. Ensure everyone is finished building the cluster before moving on
   3. Turn on the Raspberry Pis
4. Raspi-Config (15 min)
   1. Configure the settings on the Raspberry Pis
   2. Ensure everyone has configured the settings before moving on
5. Set up Administrator username and password (10 min)
   1. Add another user with a password to the Raspberry Pi
6. Boot into Gui (15 min)
   1. Explain what a Gui is to the students
   2. Open Terminal
7. Setting up WIFI (15 min)
   1. Setup the wifi from the wpa\_gui, if this does not work, use step b
   2. Establish a wifi connection through terminal
   3. Make sure everyone has a stable network connection before moving on
8. Setting up multiple Raspberry Pis (30 min)
   1. Set up a static ip address on the Pi