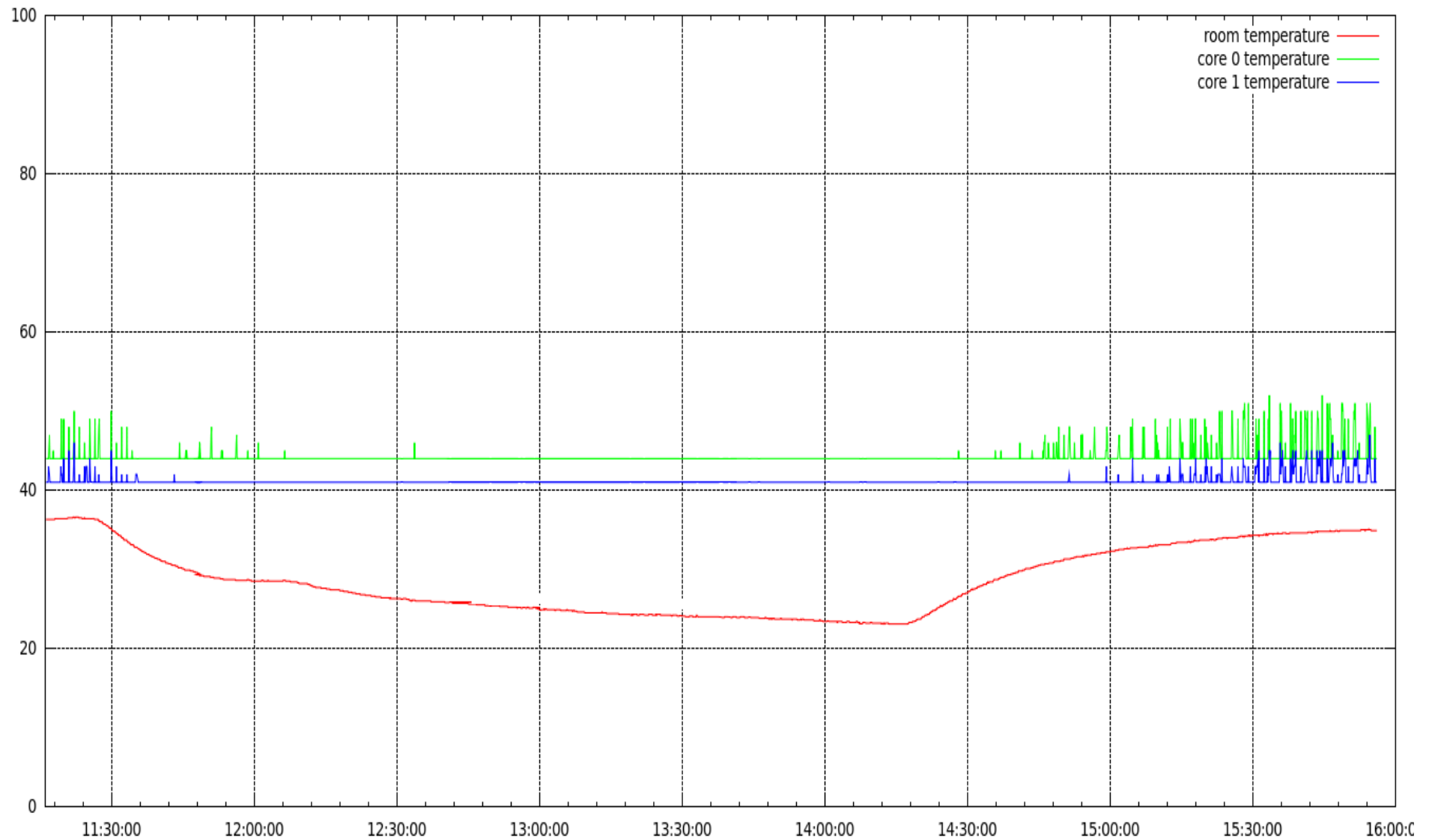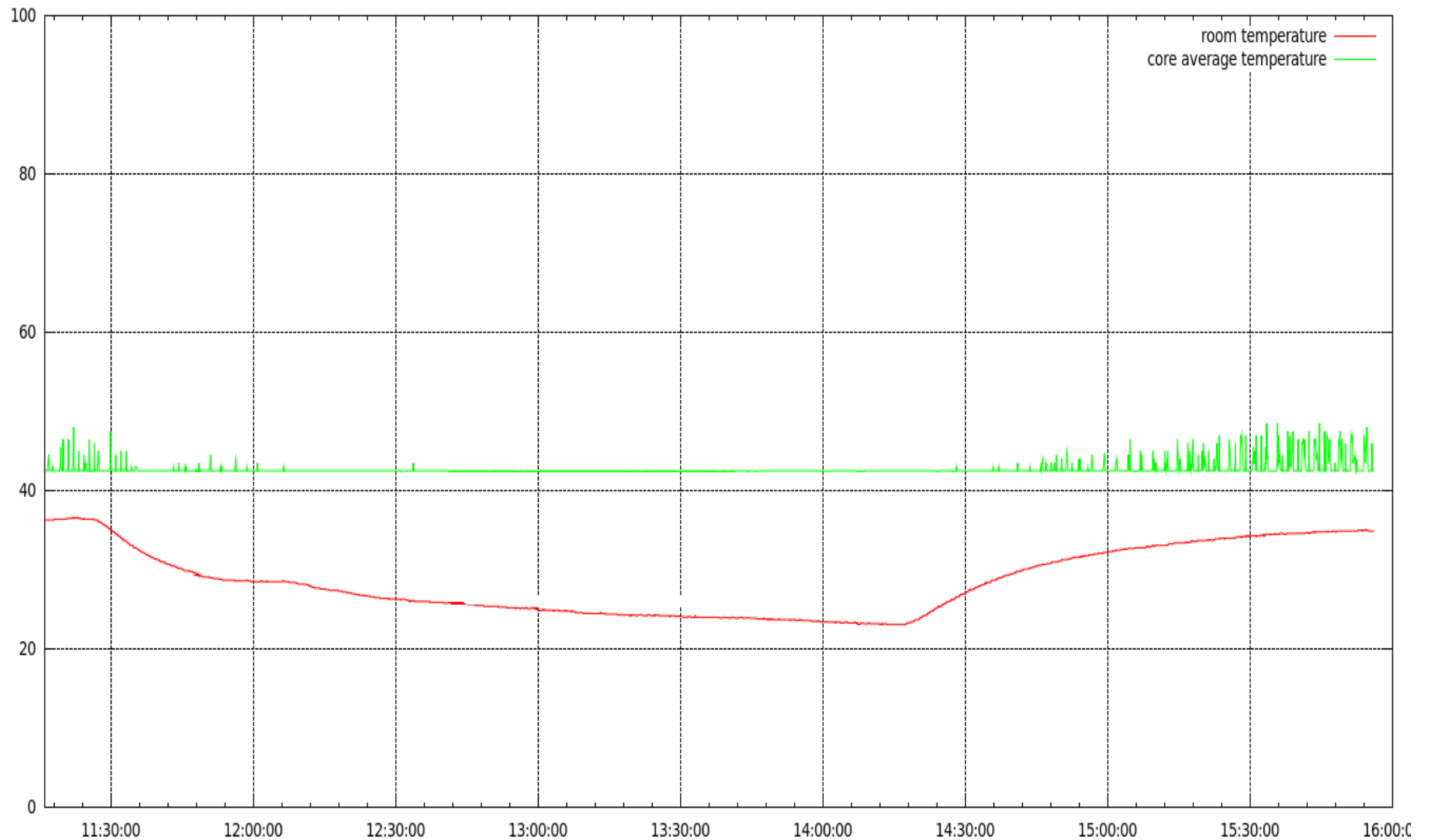# Work Done this Week

- Collect the data with varying the room temperature(10-15 degree C) and taking the load as constant(system in ideal state)
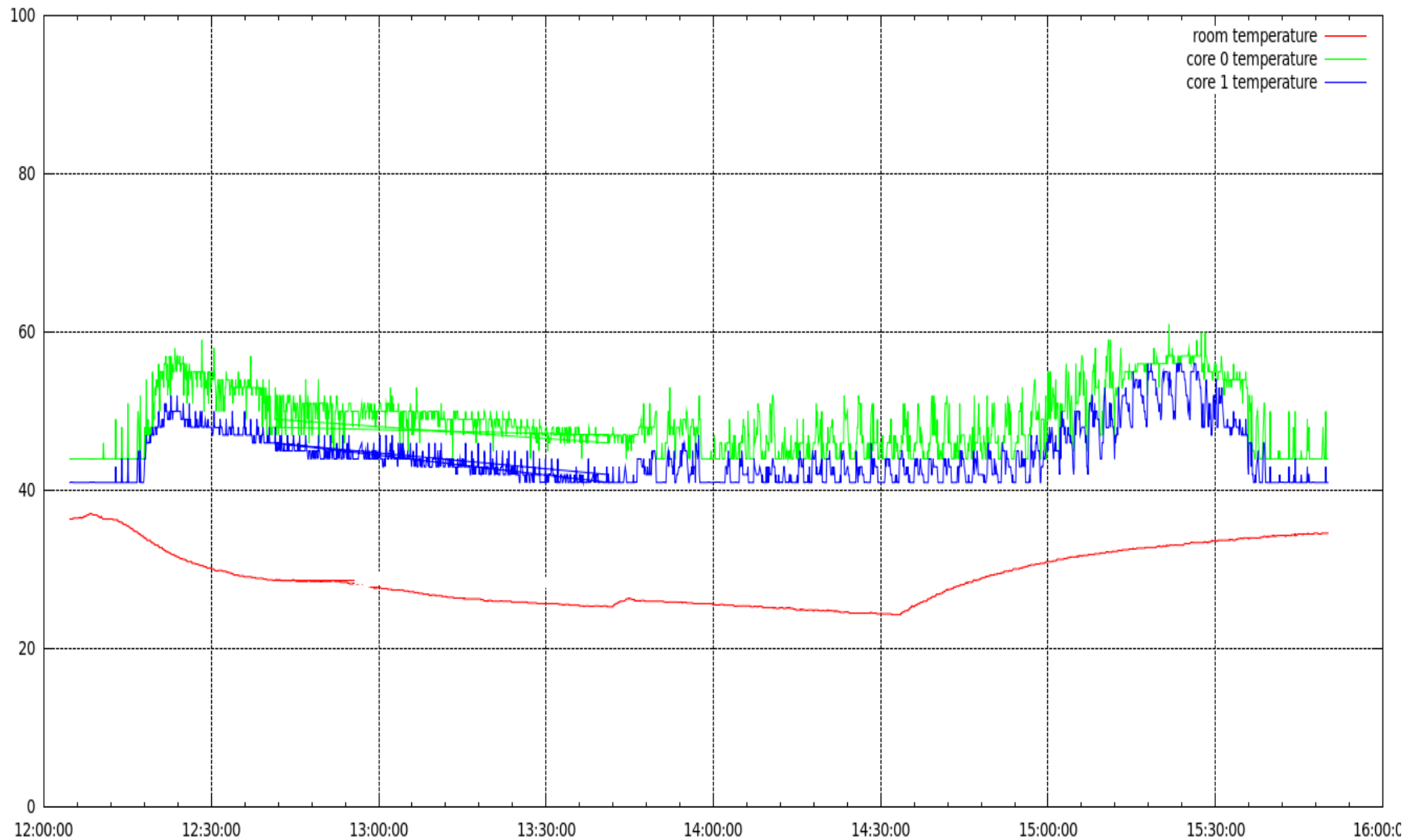- Collect the data by varying the cpu load and room temperature
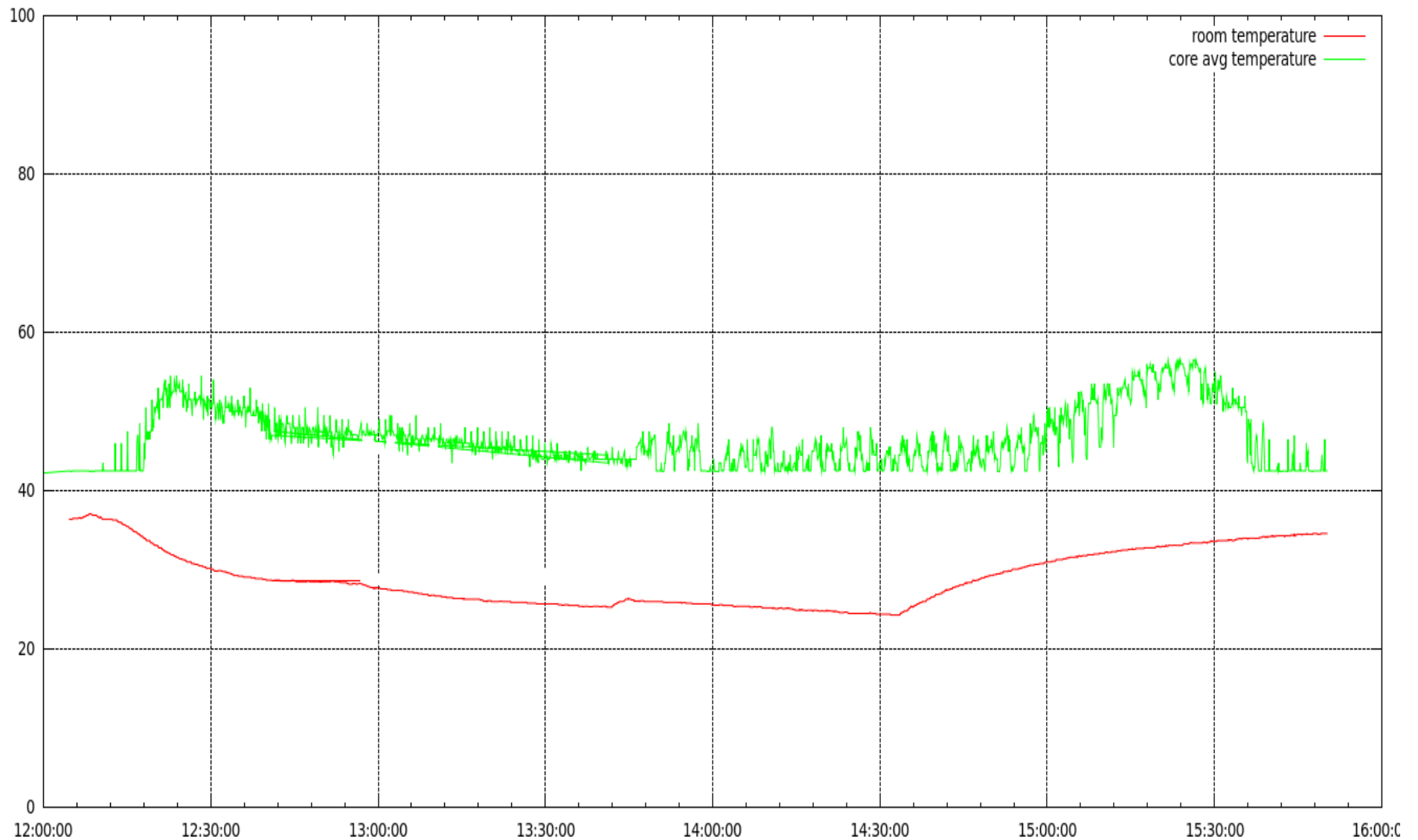
Varying Room Temperature With constant Load

Varying Room Temperature With constant Load
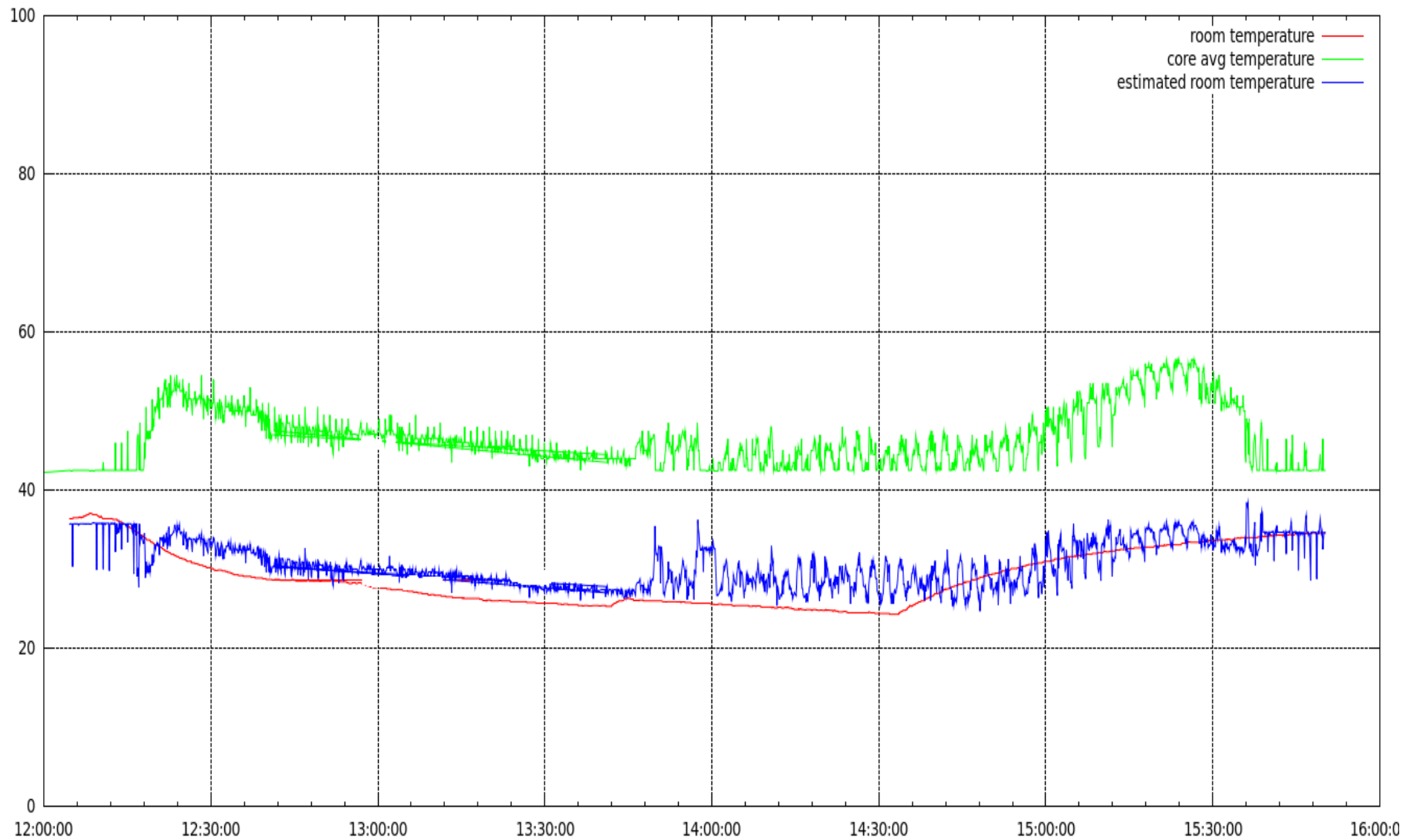
Varying Room Temperature With Varying Load

Varying Room Temperature With Varying Load

Model for Room temperature

- Room_temperature = 0.857*core_temp+7.363-0.059*core_load-0.005*core_freq

- This model gives an error of -8 to +6 degree C.

Estimated Room Temperature With Varying Load

Task for Next Week

- Find the best model to correlate the room temperature and cpu load