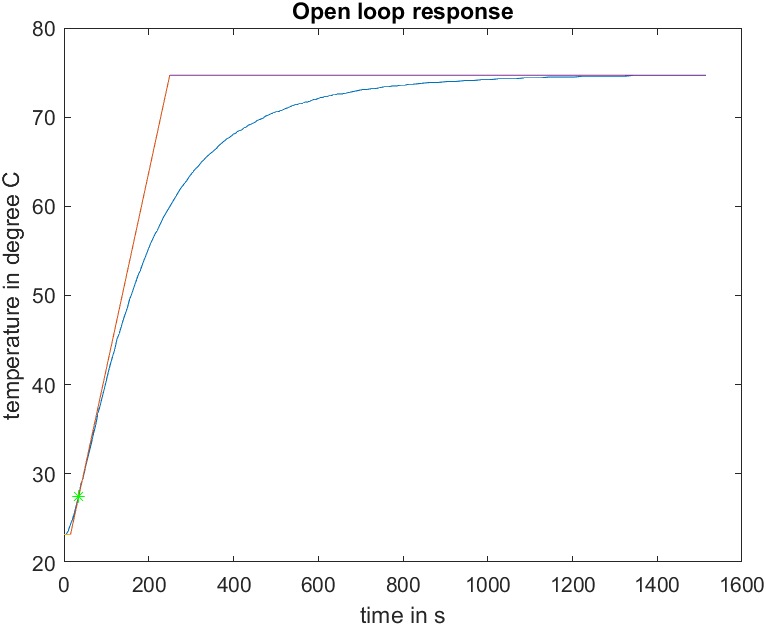
**OBJECTIVE:**

To study the performance of various types of controllers used to control the temperature of an oven.

**RUN 1: Identification of Oven Parameters**

Data: <https://docs.google.com/spreadsheets/d/12pg4PivhFpfRCq2VLuUwybyu2IgI_gQ5/edit?usp=drive_link&ouid=114018343652852839620&rtpof=true&sd=true>

Plot:

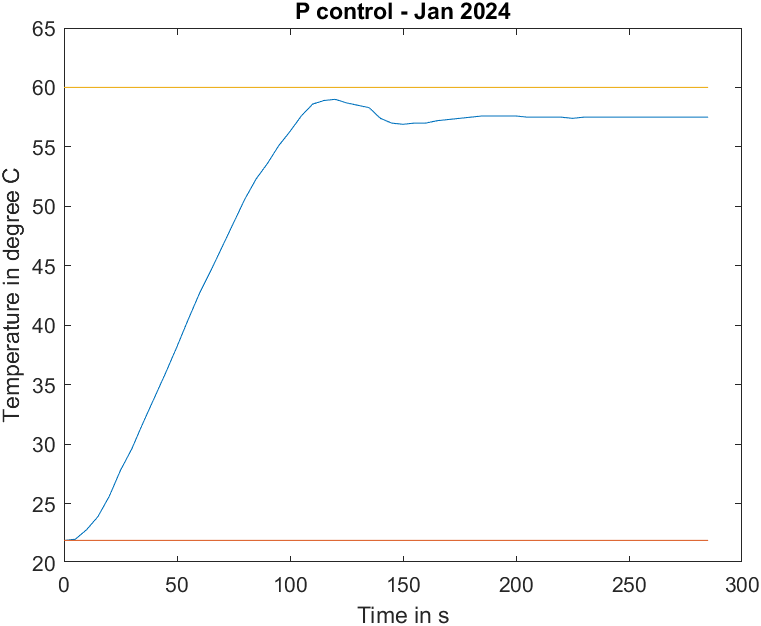


**RUN 2: P control**

Data: <https://docs.google.com/spreadsheets/d/1DeY-AUtg7b9NyJHn6HFC3SKDNS2YkUCm/edit?usp=drive_link&ouid=114018343652852839620&rtpof=true&sd=true>

P-setting determination:

Plot:

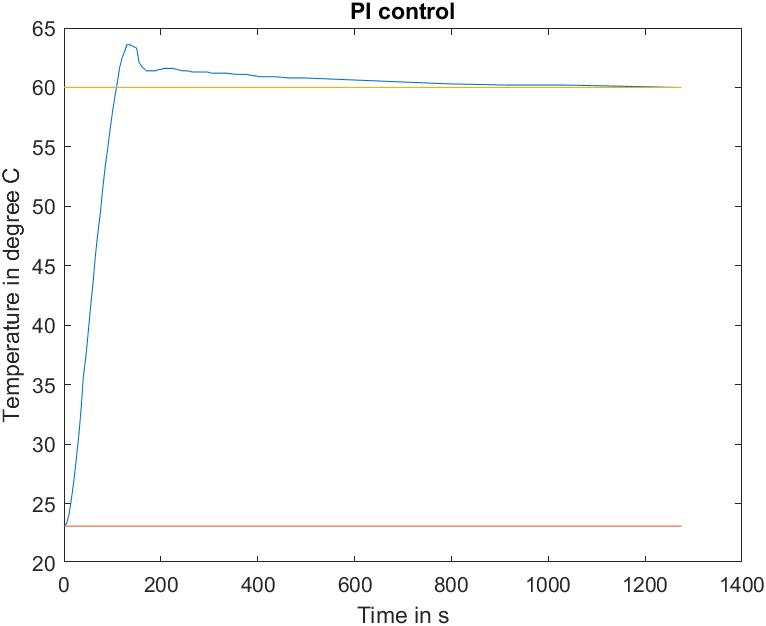


**RUN 3: PI control**

Data: <https://docs.google.com/spreadsheets/d/1Fr97d8wlCcBbTfJPKrKAxnZwwKDxmddB/edit?usp=drive_link&ouid=114018343652852839620&rtpof=true&sd=true>

P & I setting determination:

Plot:

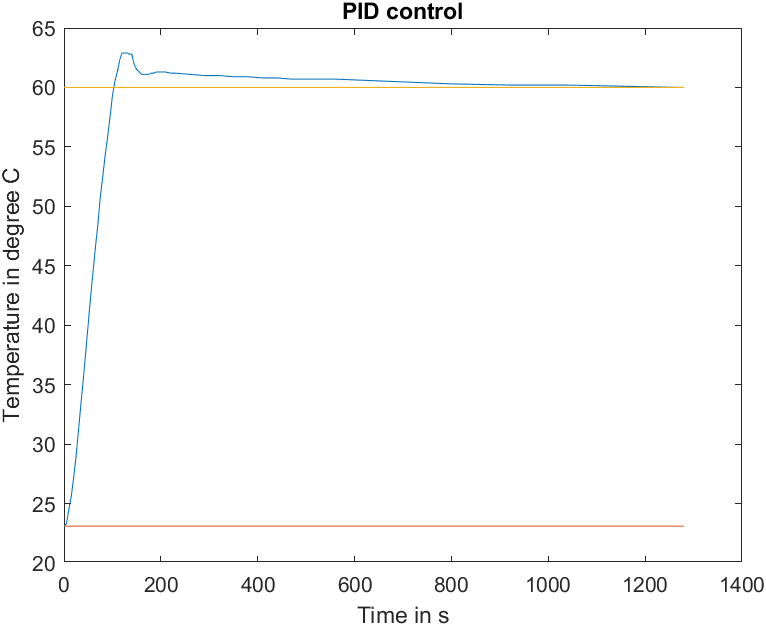


**RUN 4: PID control**

Data: <https://docs.google.com/spreadsheets/d/13uNA5jYbIO_HD7LKZGugZnTSOWXX3aZm/edit?usp=drive_link&ouid=114018343652852839620&rtpof=true&sd=true>

P, I & D setting determination:

Plot:



**RUN 4: ON – OFF control**

Low Hysteresis: <https://docs.google.com/spreadsheets/d/1xJjDLkC70b6td6O58dDFGxTDkxoY8DsZ/edit?usp=drive_link&ouid=114018343652852839620&rtpof=true&sd=true>

High Hysteresis: <https://docs.google.com/spreadsheets/d/1Sa0XeGKLTibhW1D3F7IlCNa55NufWP8v/edit?usp=drive_link&ouid=114018343652852839620&rtpof=true&sd=true>

Plot:

