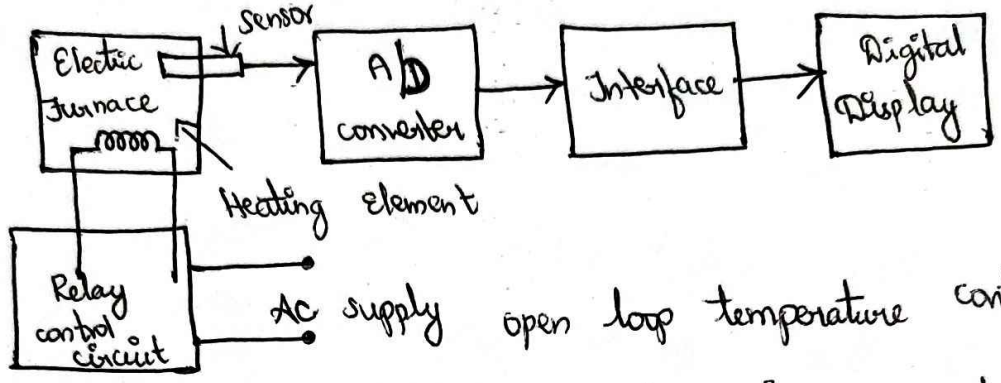


Example :- Temperature Control System.



SNS INSTITUTIONS

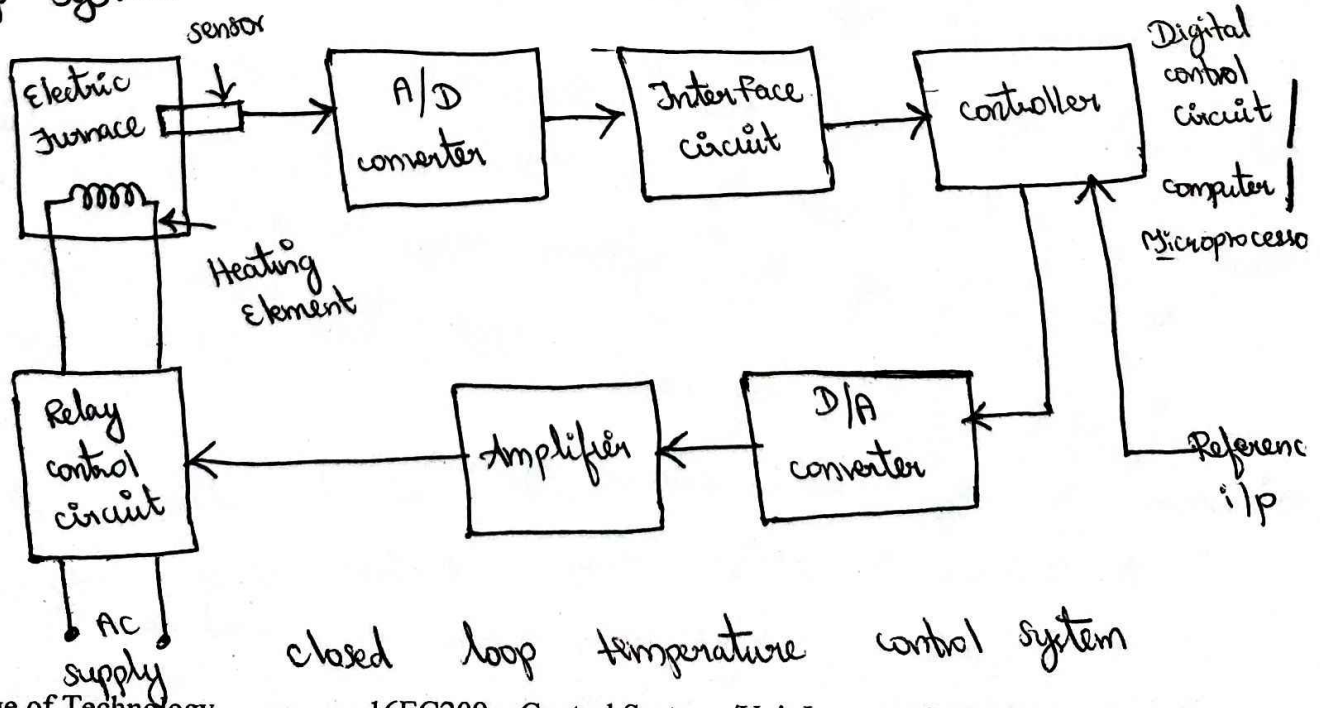
open loop system :- The o/p in the system is desired temperature. The temperature of the system is raised by heat generated by the heating element. The o/p temperature depends on the time during which the supply to heater remains ON.



open loop temperature control system

* The ON and OFF of the supply is governed by time setting of the relay. The temp is measured by sensor, which gives an analog voltage corresponding to the temp of furnace. The analog signal is converted to digital sig by an A/D converter. The digital signal is given to the digital display device to display the temperature. In this system if there is any change in o/p temperature then the time setting of the relay is not altered automatically.

closed loop systems :-



closed loop temperature control system