

S3 Engineering Science

Programmable Control Homework

Flow Charts 2

Name:

Class:

An inclined conveyor system on the Olympic canoe downhill circuit is operated by a microcontroller.



The control program will activate in the following sequence:

- When the system is switched on the conveyor belt starts and a barrier opens;
- When a canoeist is sensed on the conveyor the barrier closes;
- After a delay of 15 seconds the conveyor belt stops;
- Sequence repeats until switched off.

Input Connection	Pin	Output Connection
	7	
	6	
	5	Barrier
	4	Conveyor belt
	3	
	2	
Canoe sensor	1	
Main ON/OFF switch	0	