## **EDF Project**

## **Hyperperiod:**

Hyperperiod = 100 ms.

## **CPU Load:**

Ext1 = 3  $\mu$ s ,Ext2= 3  $\mu$ s ,Ext3 = 45  $\mu$ s ,Ext4 = 5 $\mu$ s ,Ext5= 5 $\mu$ s ,Ext6 = 12 $\mu$ s. U = 3 ( $\mu$ s) + 3 ( $\mu$ s) + 45 ( $\mu$ s)+ 5( $\mu$ s)+ 5( $\mu$ s)+ 12( $\mu$ s) = 0.62056  $\rightarrow$  62.056%

## **Checking System schedulability:**

**Using URM :** U =  $(1.5(\mu s) /50)+ (1.5(\mu s) /50)+ (1(\mu s) /100)+ (45(\mu s) /20)+(5(ms)/10)+(12(ms)/100)$  =0.62232 ms

 $URM = 6*(2^{(1/6)-1}) = 0.73477$ 

Since the URM is greater than the U then the system is schedulable.



