

BALL BOT

TASK

TIME REQUIRED

-> SOLIDWORKS MODEL	3 DAYS AT MOST
-> BUYING MATERIALS	1 DAY
->FABRICATE SPHERICAL SHELL AND TWO METAL RINGS	2-3 DAY
->WORKING ON MECHANISM	10-12 DAYS
->FABRICATING THE FINAL BOT	7 DAYS
->FURTHER IMPROVEMENTS IN CONTROL /BUFFER TIME	10 DAYS

COST OF COMPONENTS

-ONE HIGH POWER MOTOR	500	MAX
-TWO LOW POWER MOTORS	2*120	
-IC AND REMOTE	1000	MAX
-OUTER CASING (PREFERABLY TRANSPARENT) & INNER RINGS	1500-2000	
-MISCELLANEOUS (NUTS,BOLTS,LIGHTS,ETC..)	500	
-SENSORS(IF TIME PERMITS)	1000	MAX
TOTAL COST		~6000RS

WHAT DO WE EXPECT TO LEARN FROM THE PROJECT

-GYROSCOPIC PRINCIPLES

- PROGRAMMING
- ELECTRONICS(CIRCUITS)
- DESIGN(RINGS HAVE TO BE SPECIALLY FABRICATED)
- TEAM WORK