PROJECT :
REMOTE CONTROLLED
VTOL(VERTICAL TAKEOFF AND LANDING) PLANE

PROJECT DESCRIPTION

WE WANT TO MAKE A VTOL PLANE WHICH CAN BE CONTROLLED BY BY A REMOTE USING A TRANSMITTER AND A RECIEVER. A VTOL PLANE IS A FIXED-WING AIRCRAFT OUTLIFTED WITH PROPELLERS THAT CAN TAKE OFF AND HOVER LIKE A COPTER, BUT CAN ALSO SHIFT INTO A PLANE'S FORWARD FLIGHT MODE.

IMPLEMENTATION STEPS

1ST AND 2ND WEEK - WE WILL TALK TO MENTORS AND DECIDE THE PLAN OF ACTION.,DESIGN THE STRUCTURE OF THE PLANE, AND PURCHASE THE REQUIRED MATERIAL OR COMPONENTS AFTER DISCUSSIN WITH MENTORS.

3RD AND 4TH WEEK– WE WILL MAKE THE MOD-EL,REPORT FOR MIDWAY EVALUATION.

5TH AND 6TH WEEK– WE WILL TEST THE

MODEL. THEN WE WILL FINALLY TEST THE PLANE AND DEBUG IT.

COMPONENT REQUIRED AND COST ESTIMATION (APPROX)

1.BRUSHLESS MOTORS
2. SERVO
3.FLIGHT CONTROLLER BOARD
4.LIPO PACK
5.JUMPER WIRE
6. REMOTE AND TRANSMITTER,RECIEVER (EXPECTED TO BE PROVIDED BY MENTOR)

EXPECTED ESTIMATION: INR 10000-12000/-

LEARNING ASPECTS

STUDYING THE CONTROL SYSTEM OF DESIGNING,
STABILITY AND OPERATING