GG & Co.
Fly, babe fly

446.686A Design For Manufacturing

3rd Presentation: DFM

Development of portable golf ball case to increase driving distance

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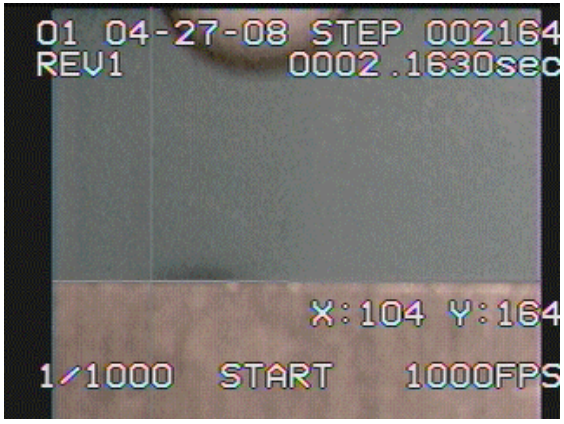
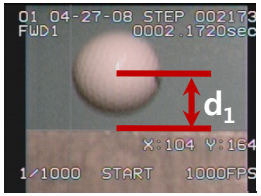
Contents

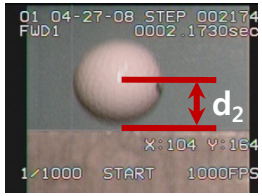
Experiment: Drop test

- **Purpose**
  - To find effect of temperature & humidity to golf ball's mass, diameter, and COR *

- **Test method**
  - Conditioning the golf ball
  - Measure mass, diameter
  - Drop the ball and measure time, height and calculate COR







$$COR = \frac{v_2' - v_1'}{v_1 - v_2} = \frac{v_2'}{-v_2} = \frac{\frac{d_4 - d_3}{\Delta t}}{\frac{d_1 - d_2}{\Delta t}} = \frac{d_4 - d_3}{d_1 - d_2}$$

* COR: Coefficient of Restitution

Prototype fabrication (cont.)

- **Manufacturing process: hand lay-up method (Cover part)**

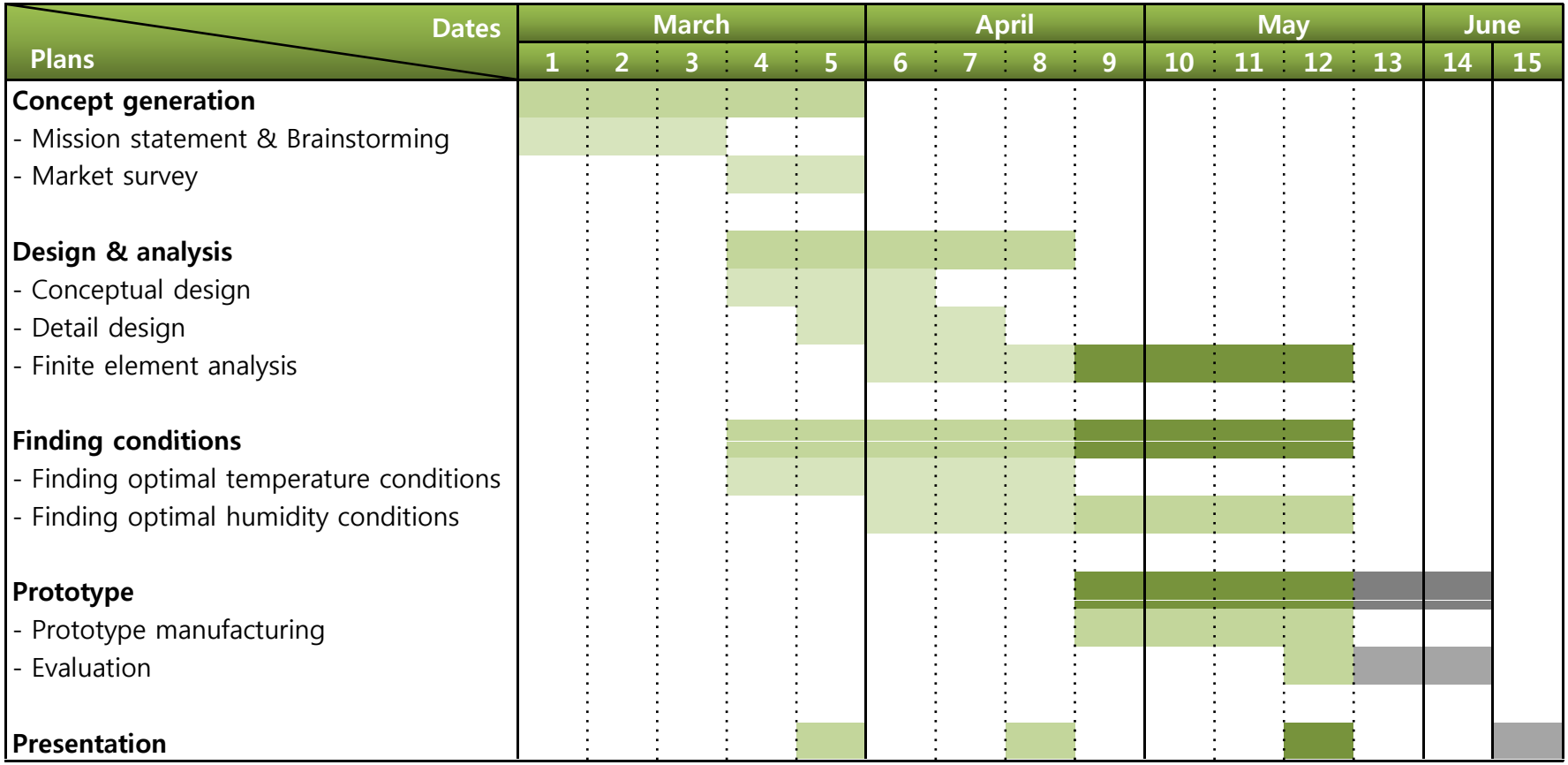
Conclusion & Future works

- **Conclusion**
  - Effect of humidity to the golf ball was checked
  - Hitting test was performed
  - Prototype v1.0 fabricated

- **Future works**
  - Prototype fabrication (v2.0)
    - Detail package design/fabrication
  - Evaluation of prototype v1.0

Future works (cont.)

- **Plans**



Thank You !