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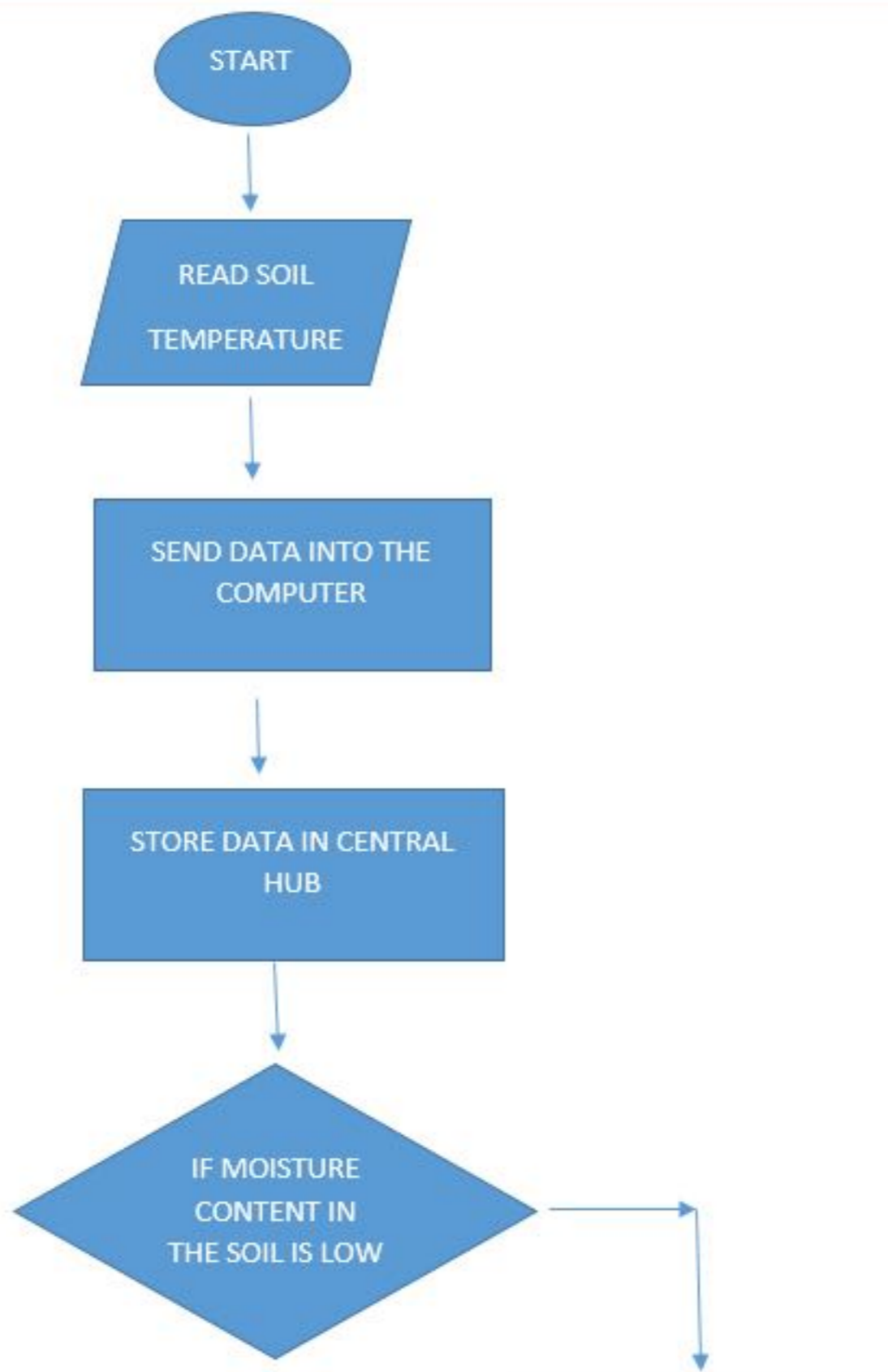
MATRIC NUMBER: 18/ENG06/004

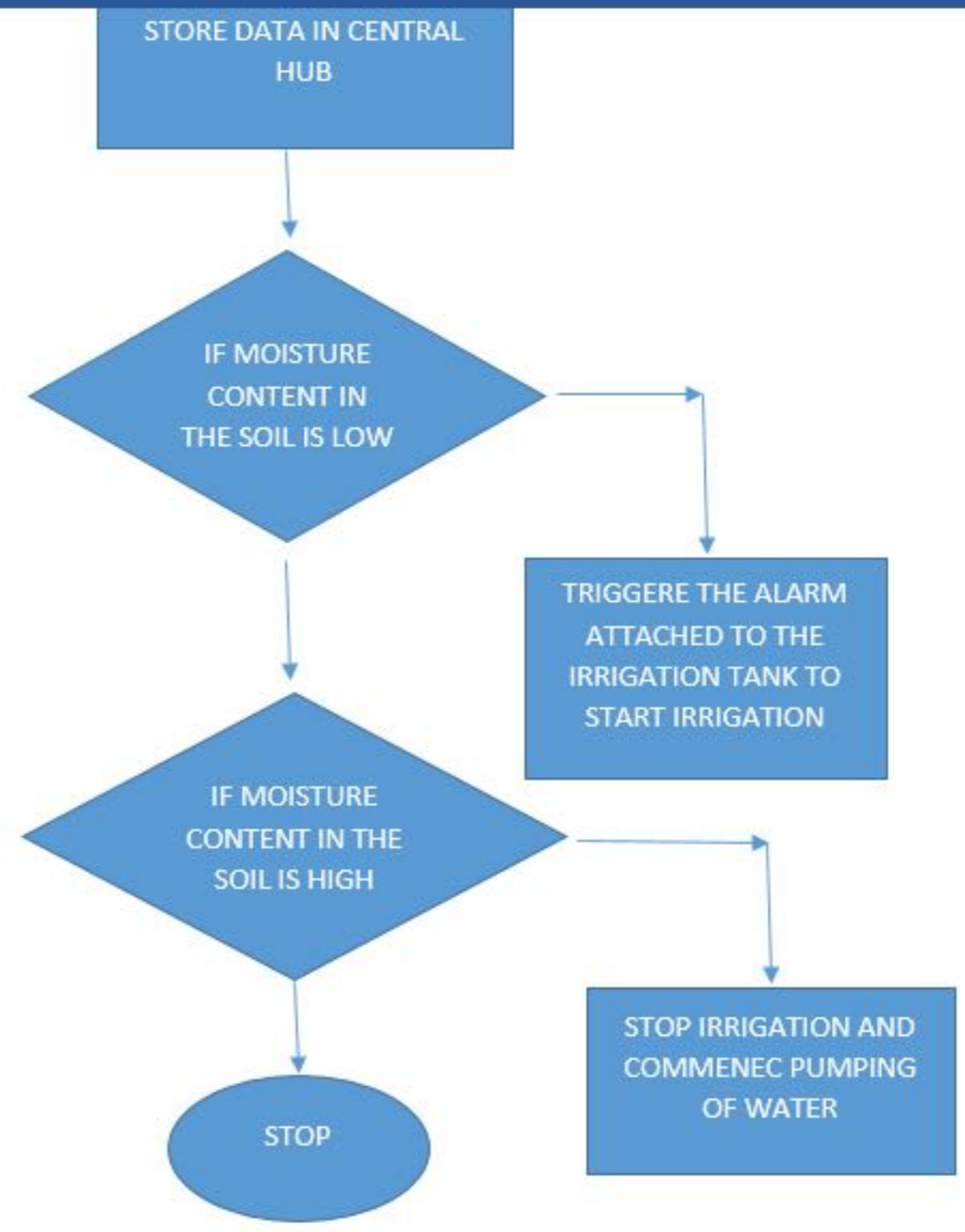
COLLEGE: ENGINEERING

DEPARMENT: MECHANICAL

COURSE CODE: ENG 224

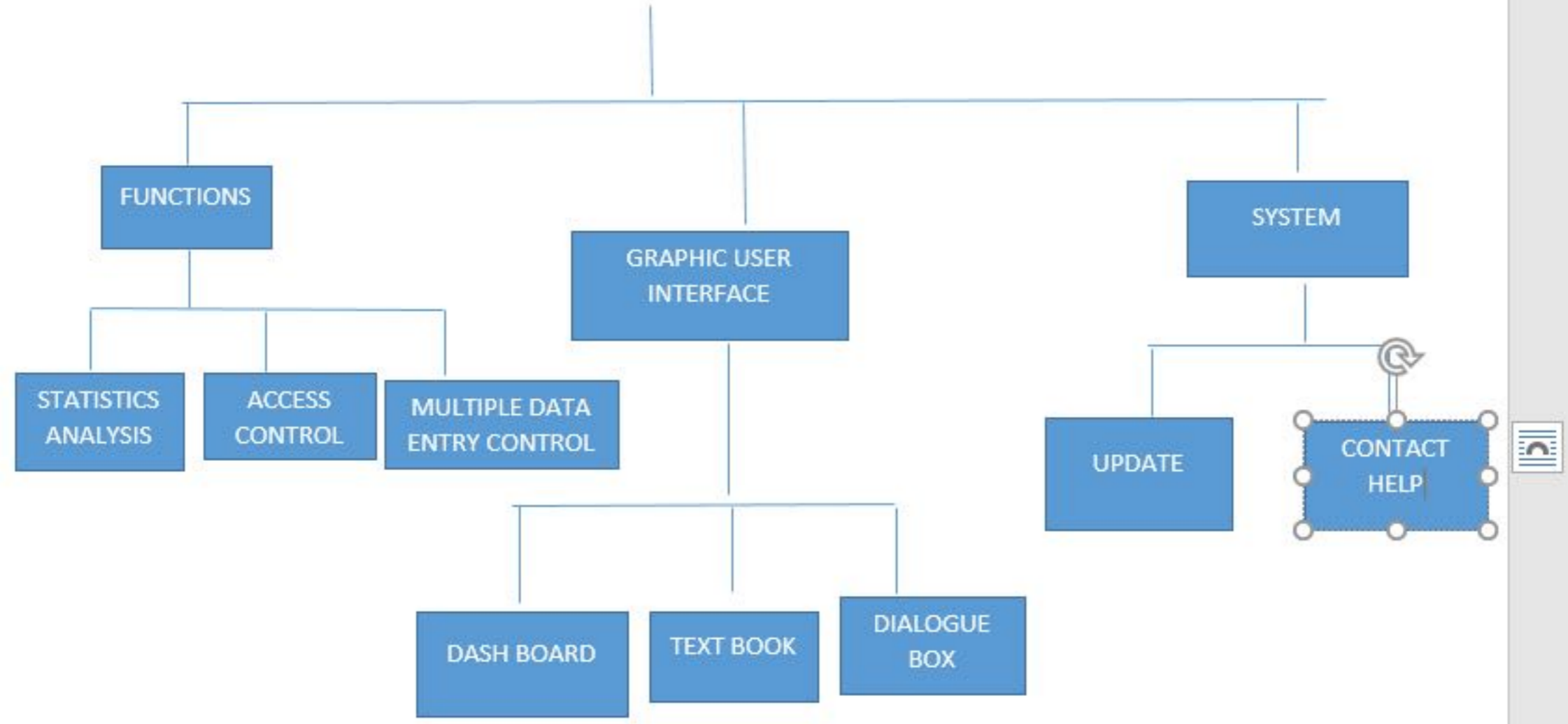
COURSE TITLE: STRUCTURE PROGRAMING







ABUAD IRRIGATION OPERATION



ALGORITHM

1. Start.
2. Read soil temperature.
3. Send data into the computer.
4. Store data in central hub.
5. If moisture content in the soil is low
Print("Trigger alarm attached to the irrigation tank and start irrigation").
6. If moisture content in the soil is high
Print("Stop irrigation and commence pumping of water").
7. Stop.

CONCEPTUALIZATION

This software is developed to an automatic irrigation system on ABUAD farm.

This software application will be allowed to determine the moisture content of the soil and the censor of the program will notify the alarm attached to the irrigation tank if the water level is low.

Access to the software is limited to only a few personal in order to restrict unauthorized access.

SOFTWARE FEATURES

- A.** Access control.
- B.** Dash board.
- C.** Multiple data entry control.
- D.** Graphical user interface.
- E.** Statistical analysis.

HARDWARE FEATURES

- A.** Central hub.

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HARDWARE FEATURES

- A. Central hub.**
- B. Computer.**
- C. Alarm.**