



STTHK3133 HUMAN FACTOR ENGINEERING
Semester 1 Session 2025/2026 (A251)

Assignment 2

Cognition, memory, and training

Type: Group
Mark: 15%
Deadline: Week 9

OBJECTIVE:

To apply Human Factors Engineering principles in the design of a user-friendly, efficient, and intuitive dashboard interface that supports decision-making and minimizes human error by applying principles of cognition, memory, and training.

SCENARIO:

As Human Factors Engineers, you are required to **design a dashboard interface** for a system that allows users to monitor and control various devices in a chosen project domain. The project should emphasize *human-centered design principles* and demonstrate *application of Human Factors Engineering (HFE)* concepts in improving usability, cognition, and user experience. Your target audience includes users who may have different level of literacy with technology.

LIST OF PROJECTS

Choose **ONE (1)** from the list:

1. Smart Home Monitoring System
2. Smart Vehicle Management System
3. Smart Agriculture Dashboard
4. Industrial IoT (Smart Factory) System
5. Smart Health Monitoring Dashboard
6. Emergency Response Dashboard
7. Elderly Care Monitoring Dashboard
8. Smart City Management Dashboard
9. Waste Recycling Tracking Dashboard
10. Smart Animal Shelter Dashboard