

THESIS ASSIGNMENT**Student's full name :** Đặng Minh Duy**Student's ID :** 1910933**Training program :** Automotive Engineering**Class :** CC19OTO1

1. **Thesis title :** Modelling, simulation, and control of assisting motor and control rules of Electric Powered Steering (EPS) system.

2. **Requested content :**

- Simulation model of electric motors in MATLAB/Simulink
- Control of electric motor
- Determine and simulate the control of the assisting motor and control rules of EPS according to different vehicle speeds and steering wheel's angles. Integration of the EPS system with vehicle body dynamic system

3. **Requested products :**

- | | | |
|--------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| <input checked="" type="checkbox"/> Full report | <input checked="" type="checkbox"/> Poster | <input type="checkbox"/> Scientific paper |
| <input type="checkbox"/> Software | <input type="checkbox"/> Firmware | <input checked="" type="checkbox"/> Simulation model |
| <input type="checkbox"/> General layout drawings | <input type="checkbox"/> Detailed drawings | <input type="checkbox"/> Assembly drawings |
| <input type="checkbox"/> Others: | | |

4. **Date of assignment** (*dd/mm/yyyy*) : **23/12/2022**

5. **Date of accomplishment** (*dd/mm/yyyy*) : **22/05/2023**

The Thesis assignment is approved by the Department of Automotive Engineering.

Date (dd/mm/yyyy) : 22/05/2023

Head of Department

Date (dd/mm/yyyy) : 15/05/2023

Thesis Advisor