HCMC UNIVERSITY OF TECHNOLOGY
Faculty of Transportation Engineering

SOCIAL REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

THESIS ASSIGNMENT

Student's full name : Hồ Bình Minh **Student's ID : 1852169**

Training program : Automotive Engineering **Class : CC19OTO1**

1. **Thesis/Project title**: Modeling and simulation the resistance torque for specific wheel alignment in the Electric Power Steering system by using Matlab/Simulink and its application.
2. **Requested content :**

   _ Research how wheel alignment and specific factors such as vehicle mass, steering angle can affect the resistance torque in the steering mechanism especially in the EPS system, model and simulate it by using Matlab/Simulink software.

   _ Required to get fully understanding knowledge about the resistance torque between the tire forces and road surface in steering mechanism especially in the EPS system of VIOS.

3. **Requested products :**

☒ Full report	☒ Poster	☐ Scientific paper
☐ Software	☐ Firmware	☒ Simulation model
☐ General layout drawings	☐ Detailed drawings	☐ Assembly drawings
☐ 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) : ……..
Head of Department

Date (dd/mm/yyyy) : ……..
Thesis Advisor