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| **HCMC UNIVERSITY OF TECHNOLOGY** | SOCIAL REPUBLIC OF VIETNAM |
| Faculty of Transportation Engineering | Independence - Freedom - Happiness  **------------------------------------** |

# THESIS ASSIGNMENT

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

Trịnh Tiến Long **Student’s ID : 1852047**

Đặng Minh Duy **Student’s ID : 1910933**

Nguyễn Nhật Duy **Student’s ID : 1910088**

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

1. **Thesis title :** Analysis, 3D modeling and dynamic simulation of the vehicle steering system.
2. **Requested content :**

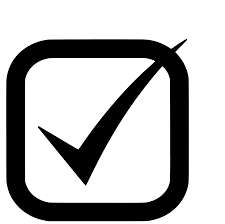
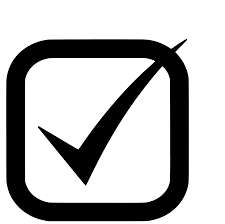
\_Build EPS model on Solidworks then import to Simscape to determine the torque acting on steering wheel with certain steering angle on EPS system

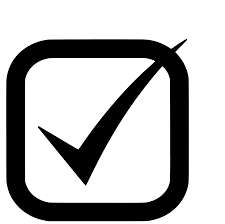
\_Build 3D model of the steering system

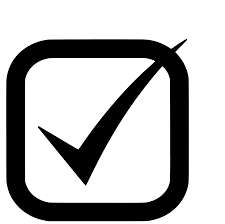
\_Simulation of dynamic behavior in Matlab/Simulink with Simscape

\_Validation the model for the control of an equivalent electric powered steering system

1. **Requested products :**

Full report Poster ◻ Scientific paper

◻ Software ◻ Firmware  Simulation model

◻ General layout drawings ◻ Detailed drawings  Assembly drawings

◻ Others:

1. **Date of assignment** *(dd/mm/yyyy)* **: 23/12/2022**
2. **Date of accomplishment** *(dd/mm/yyyy)* **: 22/05/2023**

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

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| *Date (dd/mm/yyyy) :* ……22/05/2023…..  **Head of Department** | *Date (dd/mm/yyyy) :* ……15/05/2023……..  **Thesis Advisor** |