HCMC UNIVERSITY OF TECHNOLOGY

Faculty of Transportation Engineering

Student's full name: Trịnh Tiến Long

SOCIAL REPUBLIC OF VIETNAM

Independence - Freedom - Happiness

Student's ID: 1852047

THESIS ASSIGNMENT

Tra	ining program: Automotive Eng	ineering	Class: CC19	ЮТО1	
1. Thesis title : Analysis, 3D modeling and dynamic simulation of the vehicle steering system in the VIOS car.					
2. 1	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					
3. Requested products:					
	☑ Full report	Poster		Scientific paper	
	☐ Software	☐ Firmware	\checkmark	Simulation model	
	☐ General layout drawings	Detailed drawing	ngs 🗸	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):22/05/2023 Date (dd/mm/yyyy):15/05/2023					
Head of Department			Thesis Advisor		