

VAN LANG UNIVERSITY
FACULTY OF ENGINEERING



GRADUATE THESIS

PROJECT: MEP SYSTEM DESIGN FOR VIETNAMESE-GERMAN UNIVERSITY
LOCATION: THOI HOA WARD, BEN CAT DISTRICT, BINH DUONG PROVINCE

STUDENTS

PHAM LE VAN
PHAN NGUYEN KHAI
NGUYEN PHUC LOC

MENTOR

DR. LE HUNG TIEN

HO CHI MINH CITY 07/2020

ACKNOWLEDGEMENT

To complete the graduation thesis "Mep system design for VIETNAMESE-GERMAN UNIVERSITY". First of all, I would like to express my sincere thanks to the teachers in the Faculty's Heat and Refrigeration Engineering, Van Lang University.

In particular, I would like to send to the teacher: **Dr. Le Hung Tien**, who has enthusiastically guided and helped me complete this career thesis with deepest thanks.

Next, I would like to express my sincere thanks to the leadership and departments of **Nam Thinh Mechanical & Electrical Engineering joint stock company (NTC)**, for creating favorable conditions for me to learn about practical issues during the internship at the company.

Finally, I would like to thank **the management of a construction site construction project: VIETNAMESE-GERMAN UNIVERSITY** of the company NTC helped, provided the actual data for me to successfully complete this graduation thesis.

At the same time, the school has given me the opportunity to practice in my favorite place, to bring her to life to apply the knowledge that the teachers have taught. Through this internship and completion course, I realized many new and useful things for my future job.

PREFACE

In recent years, along with the economic development of the whole country, the air conditioner industry has also made great progress and become more and more familiar in life and production. Vietnam is a country with a hot and humid tropical climate.

Therefore, air conditioning and ventilation have great implications for human life. Along with the rapid development of general science and technology, ventilation and air-conditioning techniques have also made significant progress in the past few decades. Especially in Vietnam since the open door policy, air-conditioning equipment has been imported from many different countries with increasing demand and also more modern.

Today air-conditioning is indispensable in buildings, hotels, offices, restaurants, travel services, culture, medicine, sports but also in apartments, houses and other transportation such as cars, trains, ships. Air-conditioning technology in recent years has also helped effectively in many economic sectors, contributing to improving product quality and ensuring technological processes such as tobacco, tea processing, printing, electronics, microelectronics, post, telecommunications, computers, optics, precision engineering and chemistry.

With the topic of Calculating and designing the air conditioning system for “**VIETNAMESE-GERMAN UNIVERSITY (VGU)**” after studying and proceeding with the project, with the enthusiastic guidance on this topic, group of useful knowledge and experience for future work. During the course of making the project with the effort of the group with the enthusiastic guidance of the teacher: **Dr. Le Hung Tien** and other teachers, so far our project has been completed. In this lecture, we tried to present it completely and coherently from beginning to end but there were still some flaws, partly because of limited knowledge and incomplete documents, so it was inevitable. . So we look forward to your valuable guidance.

We sincerely thank you !

Students perform

Pham Le Van

Phan Nguyen Khai

Nguyen Phuc Loc