

# CHAPTER I

## INTRODUCTION

### 1.1. BACKGROUND

One of the initiatives run by the Indonesian Ministry of Education and Culture to support autonomous campus policies is the Merdeka Belajar Kampus Merdeka program internship activity, or MBKM internship. The purpose of this activity is to give students a taste of a professional work environment while they are still in college. It is intended that students who have taken part and gained experience would be able to find respectable employment in fields related to their academic pursuits. To encourage students to participate in this MBKM internship activity, the Faculty of Engineering, Civil Engineering Study Program, Universitas Atma Jaya Yogyakarta offers a conversion scheme of 20 maximum credits to convert to grades for internship-related topics.

Davy Sukamta & Partners is one of the companies involved in this MBKM internship program with Universitas Atma Jaya Yogyakarta. It is a consulting engineers in construction. Students that participate in an internship at Davy Sukamta & Partners obtain knowledge of building structural and reinforcement design using SAP2000 and ETABS. In order to participate in their project and learn from their standards, students also collaborate with teams to work on it.

Universitas Atma Jaya Yogyakarta offers the ultimate duty, one of which is building construction planning, as one of the techniques to generate graduates proficient in the field of civil engineering. It is also one of the 20 credits for internship-related subjects that can be converted to grades. Building construction planning includes building foundations, structural elements, electrical systems, plumbing, heating, ventilation, air conditioning (HVAC), and wastewater management. Students will be able to work on internship assignments from the company while also working on their final project, which will be based on the

same project they worked on during their internship. Students can search for and collect final assignment data, as well as gain professional experience.

## **1.2. LIMITATION**

Superstructure planning in this report is limited by the reinforcement design of upper construction and the cost and time management of the building three of Meeting, Incentive, Conference, and Exhibition Building (MICE) in Tangerang.

## **1.3. PURPOSE**

### **1.1.1. Internship**

- 1) Acquire experience and knowledge about the job duties performed consultants
- 2) Acquire experience and knowledge about the job duties performed constulants
- 3) Explore the design methods employed by consultants compare with theory from regular class

### **1.1.2. Final Project**

- 1) Design the top structural of MICE building that also the author's assignment during her internship
- 2) Estimating the cost of project