CHAPTER I
INTRODUCTION

Surakarta is a city full of history and cultural nuances, has a proud tradition of Javanese society. A place that will make anyone who comes fascinated by the diverse attractions of the ancient Javanese cultural heritage. The uniqueness of the city is able to attract foreign tourists to travel and learn the ancient Javanese culture. Moreover, in 2011, the Indonesian government set Wonderful Indonesia as a new brand management of tourism in Indonesia. Based on data from 2014, the number of foreign tourists coming to Indonesia by 9.4 million or grew by 7.05% over the previous year. The number of foreign tourists coming to Indonesia requires local governments to consider supporting facilities to provide comfort to the tourists during the tour. One of the supporting facilities are hotel. According to KBBI, Hotel is a building that has a lot of rooms rented as a place to stay and places to eat for people who were on the way. In providing lodging facilities required consideration not only of the hotel facilities on offer, the hotel must also meet the criteria as a sturdy building, architecturally and economically valuable. In the science of structural design rules, the most important factor in the design of high-rise buildings is the power structure of the building, because it concerns human comfort and security in the use. From some of the problems above, for this final project we will plan the six floor of the hotel building and one basement with four star hotel classification, the hotel located at Jl. Ir. Sutami 104. For this case we will plan the hotel structure with intermediate reinforced concrete moment frames or sistim rangka pemikul momen menengah (SPRMM).

Figure 1.1 Image location
B. Problem Formulation

Based on the background described above, the formulation of the problem that can be taken as a reference is:
1. The growing need for accommodation facilities for foreign tourists.
2. How to plan the structure of the building earthquake-resistant hotel in Surakarta

C. The Purpose Of Planning

1. Design hotel six floors and one basement to provide lodging facilities for foreign tourists.
2. Plan structure hotel building six floors and one basement resist from earthquake with using Intermediate reinforced concrete moment frames in Surakarta region.

D. Benefits Planning

Increase knowledge about planning and provide experience in planning a multi-storey building earthquake resistant structures, especially in the planning of a reinforced concrete structure.
E. Limitations

To Anticipate the widening of the discussion, in the preparation of this final project, the planning of the building is limited to the following issues:

1. Rules Used
   a) SNI-1727:2013, Minimum Load For Designing Building And Other Structures.
   c) SNI-2847:2013, Requirements for Structural Concrete Building.

2. Calculation and discussion
   Calculation and discussion in this final project is as follows:
   a) The structure of the hotel building six floors and one basement with intermediate reinforced concrete moment frames in Surakarta.
   b) Planning the calculated structure covering roof structure calculations, concrete (slab, plate stairs, beams, columns, foundations), and basement walls.
   c) The height of the column of the basement floor up to the 6th floor is 4 m.
   d) specification of the materials used are as follows:
      a. Concrete Quality $\Gamma_c = 30$ MPa.
      b. Steel Quality $f_y = 400$ MPa.
      c. Steel Quality $f_y = 240$ MPa.
   e) Thickness of the floor plate taken 12 cm. The dimensions of 300/700 mm beam initial, initial dimensions joists and beams sloof 200/400 mm 300/700 mm, as well as initial dimensions of 700/700 mm column.
   f) The foundation type used is piling foundation.