

DESIGN OF A MULTI-STOREY CAR PARK FOR INTI COLLEGE

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ABSTRACT

The purpose of this project is first, to apply all my knowledge that I had learn throughout the six semesters, and second, to establish a new recognize and confidential throughout the project.

I'm designing a multi-storey car park and this project only requires me to design the super structure of the car park. This means that I am not required to design the foundation of the car park. The aim of structural design is to produce a safe and economical structure that fulfils its required purpose. Theoretical knowledge of structural analysis must be combined with knowledge of design principles and theory and the constraints given in the standard to give a safe design.

On this page, I will explain briefly the procedure taken to design a car park. First of all, prepare the architecture plan and R.C. plan. The R.C. plan is important to let us putting beams and columns. By well prepared of the plans can gives a very good arrangement of design structure due to saving a lot of works and time.

Then I will start to design flat roof (slabs), stairs, ramps, beams and column. These are the main task of designing the elements. Beams are the most fundamental type of member present in civil engineering structure. Their principle is to transmit the vertical load. The column in a structure carries the loads beam and slabs down to the foundation.

By completed a design work following well planning procedures, then the project can be done successfully.