

## **ABSTRACT**

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*Campus F8 4th Building Construction Project of Gunadarma University,  
Construction Method and Calculation of Ladder Structure Required Steel  
Reinforcement on 1st to 2nd Floor*

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*(XV + 99 + Attachment)*

*Gunadarma University Construction Project of 4th building on F8 campus were part of Campus F8 Medical Faculty building project. This project is located on RTM street, Tugu, Cimanggis, Depok, West Java. In this practical work study gave student a change of working under construction project management and giving opportunity to have physical experience in the construction project. This study purpose is to knowing the management of construction project, and to finding out how many rebar required in main stairs structure. The 4th building was built on an area of 14.000 m<sup>2</sup> with a 5.977,73 m<sup>2</sup> area. During this study, the construction project is on building column, beam, slab and stairs. One part of upper structure construction is main ladder. construction method which are used in main ladder structure is divided into several works such as preparation, installing concrete support, marking, reinforce steel placement, rebar cleaning, concrete casting, deshittering and curring. Main ladder structure using reinforced concrete based on calculation show that this ladder using 8 piece of D22 rebar, 14 piece of D19 rebar, 13 pice of D16 rebar, 104 piece of D13 rebar, and 30 piece of D10 rebar.*

*Keyword: Ladder Stucture, Construction Method, Required Rebar Reinforcement*