

PEMBANGUNAN LABORATORIUM KOMPUTER: WUJUD TRANSFORMASI DIGITAL PENDIDIKAN DI SMP NEGERI 02 MUKOMUKO

LAPORAN TEKNIK

*Sebagai salah satu syarat untuk menyelesaikan Program Profesi pada Program Studi Pendidikan
profesi Insinyur Sekolah Pascasarjana Universitas Andalas*

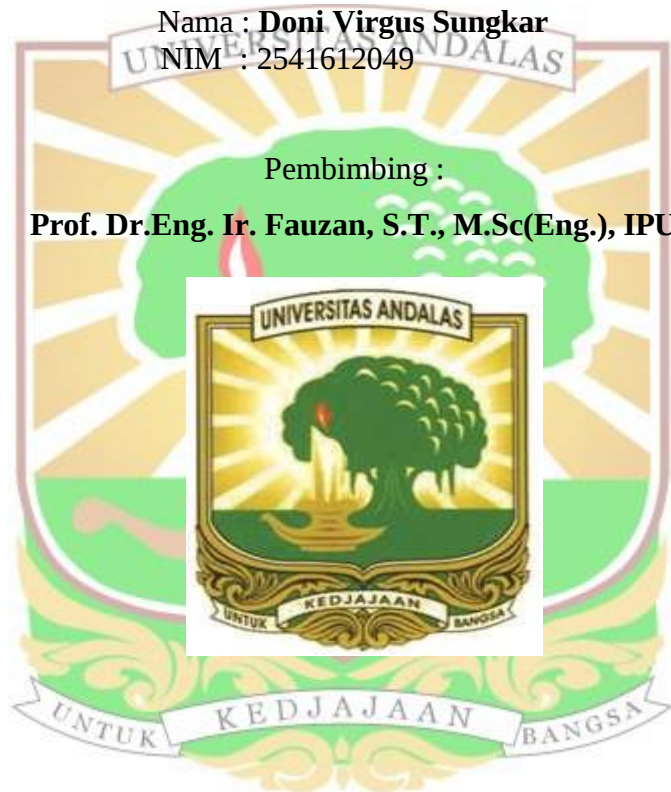
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ABSTRACT

The construction of the Computer Laboratory at SMP Negeri 02 Mukomuko represents a strategic project in supporting digital transformation within the secondary education environment. This report comprehensively discusses architectural planning aspects, construction implementation methodology, and interim results from the development that has achieved significant progress of 85%. Primary data were obtained from validated Budget Plan (RAB) documents and architectural working drawings. In-depth analysis was conducted based on civil engineering approaches, considering compliance with SNI standards and principles of cost efficiency and construction sustainability. Study results indicate that the building design with an area of $\pm 108 \text{ m}^2$ and reinforced concrete structure has met the functional requirements of a modern laboratory with optimal capacity. This facility is designed to accommodate current computer equipment and support information technology-based learning activities. Electrical systems, lighting, and ventilation have been calculated according to computer laboratory room standards. Overall, the project is progressing well according to the established schedule, available budget, and planned construction quality, with strict supervision from the technical team.

Keywords: Computer Laboratory, Construction, SMP Negeri 02 Mukomuko, Civil Engineering, Architecture.

