

RINGKASAN/ABSTRAK

Aulia, M. D. H. (2024). Perencanaan Instalasi MEP (Mechanical, electrical, and plumbing) lantai 1 dan 2 Gedung Elektro Politeknik Negeri Madiun. Tugas Akhir, Program Studi Teknik Listrik, Jurusan Teknik, Politeknik Negeri Madiun. Pembimbing : (I) Ir. Budi Triyono, S.Pd., M.T., IPM., (II) Ir. Dimas Nur Prakoso, S.Tr.T., M.Tr.T., IPP.

Kata Kunci : *MEP (Mechanical, electrical, and plumbing), Instalasi Listrik,*

Gedung Teknik elektro Politeknik Negeri Madiun merupakan salah satu fasilitas dan sarana penting dalam proses kegiatan belajar mengajar bagi mahasiswa Teknik elektro, Gedung Elektro Lantai 1 dan 2 menjadi fokus utama penulis dalam penelitian yang akan membahas mengenai perencanaan instalasi MEP (*Mechanical, electrical, and plumbing*). kebutuhan daya Gedung Elektro pada lantai 1 sebesar 215.518 watt dan lantai dua sebesar 141.683 watt. Dengan memperhatikan regulasi dan standar keselamatan yang berlaku seperti Standar Nasional Indonesia (SNI) dan Persyaratan Umum Instalasi Listrik (PUIL), diharapkan dalam perencanaan instalasi MEP (*Mechanical, electrical, and plumbing*). Dapat memberikan manfaat bagi semua. Dengan perencanaan instalasi MEP (*Mechanical, electrical, and plumbing*) ini penulis juga berharap agar penelitian/perancangan tugas akhir ini dapat bermanfaat dan membantu dalam pengembangan serta pembangunan bidang MEP (*Mechanical, electrical, and plumbing*) di Indonesia di masa yang akan datang dan Penelitian ini dapat menambah pengetahuan tentang perencanaan instalasi MEP (*Mechanical, electrical, and plumbing*). dengan menggunakan *software AutoCad*.

SUMMARY/ABSTRACT

Aulia, M. D. H. (2024). Planning of MEP (Mechanical, electrical, and plumbing) Installation on the 1st and 2nd floors of the Madiun State Polytechnic Electro Building. Final Project, Electrical Engineering Study Program, Engineering Department, Madiun State Polytechnic. Advisor: (I) Ir. Budi Triyono, S.Pd., M.T., IPM., (II) Ir. Dimas Nur Prakoso, S.Tr.T., M.Tr.T., IPP.

Keywords: *MEP (Mechanical, electrical, and plumbing), Electrical Installation,*

The Madiun State Polytechnic Electrical Engineering Building is one of the important facilities and facilities in the process of teaching and learning activities for electrical engineering students, the 1st and 2nd Floor Electrical Building is the main focus of the author in research that will discuss the planning of MEP (Mechanical, electrical, and plumbing) installations. The power requirement for the Electrical Building on the first floor is 215,518 watts and the second floor is 141,683 watts. By paying attention to applicable regulations and safety standards such as the Indonesian National Standard (SNI) and the General Requirements for Electrical Installation (PUIL), it is hoped that the planning of MEP (Mechanical, electrical, and plumbing) installations. Can provide benefits for all. With this MEP (Mechanical, electrical, and plumbing) installation planning, the author also hopes that this research / final project design can be useful and assist in the development and development of the MEP (Mechanical, electrical, and plumbing) field in Indonesia in the future and this research can increase knowledge about MEP (Mechanical, electrical, and plumbing) installation planning. by using AutoCad software.