

ABSTRAK

Lingga, Satriya. 2023. *Desain dan Analisi Kebutuhan Instalasi Listrik pada Gedung Fakultas Teknik dan Teknologi Kemaritiman Universitas Maritim Raja Ali Haji Kampus Senggarang Provinsi Kepulauan Riau*. Skripsi. Tanjungpinang: Jurusan Teknik Elektro, Fakultas Teknik dan Teknologi Kemaritiman, Universitas Maritim Raja Ali Haji. Pembimbing I: Ir. Sapta Nugraha, S.T., M. Eng. Pembimbing II: Ir. Eko Prayetno, S.T., M. Eng.

Penelitian ini bertujuan untuk mengetahui kelayakan dalam pemasangan instalasi listrik pada gedung fakultas, apakah dalam pemasangan dan pemilihan sesuai dengan aturan standar puil. dengan menggunakan metode observasi lapangan mengambil secara langsung data pada ruangan fakultas. Berdasarkan hasil oservasi lapangan pada gedung Fakutas terdapat beberapa permasalahan yang di temukan seperti kabel yang berserakan tidak di beri pengaman, bahan-bahan yang di gunakan tidak sesuai standar PUIL 2011, sambungan kabel pada kotak sambungan tidak tertutup sehingga bisa mengakibatkan kebocoran arus dan bisa membahayakan orang di sekitar gedung, kedudukan/ketinggian stop kontak dan saklar lampu tidak sesuai standart. Hasil perbandingan perhitungan hasil amper keseluruhan sebelum di observasi 230,077399 Amper. hasil yang didapatkan setelah melakukan observasi sesuai standart PUIL mendapatkan total 286,0448916 Amper.

Kata Kunci : PUIL 2011, Amper, Gedung.

ABSTRACT

Linga, Satriya. 2023. *Design and Analysis of Needs for Electrical Installation in the Building of the Faculty of Maritime Engineering and Technology, Raja Ali Haji Maritime University, Senggarang Campus, Riau Archipelago Province*. Thesis. Tanjungpinang: Department of Electrical Engineering, Faculty of Maritime Engineering and Technology, Raja Ali Haji Maritime University. Advisor I: Ir. Sapta Nugraha, S.T., M.Eng. Advisor II: Ir. Eko Prayetno, S.T., M.Eng.

This study aims to determine the feasibility of installing electrical installations in the faculty building, whether the installation and selection are in accordance with the standard PUIL rules. by using the field observation method to take data directly in the faculty room. Based on the results of field observations at the Faculty building there were several problems found such as scattered cables that were not given safety, materials used did not comply with PUIL 2011 standards, cable connections in junction boxes were not closed so that they could cause current leakage and could endanger people around the building, the position/height of sockets and light switches were not up to standard. The results of the comparison of the calculation of the overall ampere results before being observed were 230.077399 Amperes. the results obtained after making observations according to PUIL standards get a total of 286.0448916 Amperes.

Keywords: PUIL 2011, Amper, Building.