

VISUALISASI DESAIN PERMODELAN 3D KAWASAN GEDUNG C POLITEKNIK NEGERI BENGKALIS

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ABSTRAK

Gedung C Politeknik Negeri Bengkalis memerlukan pembaruan visual fasad dan penataan kawasan guna mendukung aktivitas akademika. Fasad eksisting membutuhkan elemen peneduh pasif (*secondary skin*) untuk membiaskan cahaya matahari langsung tanpa mengganggu sirkulasi udara, sekaligus memperkuat identitas budaya lokal Melayu. Penelitian ini bertujuan menghasilkan permodelan 3D dan video animasi kawasan Gedung C.

Metode penelitian yang digunakan adalah kualitatif deskriptif. Pengumpulan dan pengolahan data dilaksanakan secara sistematis, dimulai dari tahapan observasi data eksisting, perancangan gambar teknis 2D, pembentukan permodelan 3D, hingga diakhiri dengan pembuatan video animasi sebagai hasil visualisasi akhir.

Hasil penelitian ini menyajikan visualisasi desain permodelan 3D dan video animasi kawasan Gedung C yang mencakup peremajaan fasad serta penataan kawasan yang lebih fungsional dan estetis.

Kata Kunci: Visualisasi 3D, Permodelan Kawasan, Video Animasi.

***3D MODELING DESIGN VISUALIZATION
OF BUILDING C AREA
AT STATE POLYTECHNIC OF BENGKALIS***

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ABSTRACT

Building C of State Polytechnic of Bengkalis requires a visual facade renewal and site development to support academic activities. The existing facade needs a secondary skin as a passive shading element to diffuse direct sunlight without disrupting air circulation, while simultaneously reinforcing the local Malay cultural identity. This study aims to generate a 3D modeling visualization and an animated video of the Building C area.

The research method used is descriptive qualitative. Data collection and processing were carried out systematically, beginning with the observation of existing data, preparation of 2D technical drawings, construction of 3D modeling, and concluding with the production of an animated video as the final visualization output.

The results of this study present a 3D modeling visualization and animated video of the Building C area, encompassing facade revitalization and site development that is more functional and aesthetically pleasing.

Keywords: 3D Visualization, Site Modeling, Animated Video.