

# Estimasi biaya konseptual pada konstruksi gedung perkantoran dengan Fuzzy Logic = conceptual cost estimating in the office building construction using Fuzzy Logic method / Jennyvera

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## Abstrak

[<b>ABSTRAK</b><br>

Estimasi biaya konseptual merupakan hal yang fundamental dalam suatu proyek konstruksi, dimana akan menentukan kelayakan dan budget pendanaan suatu proyek. Namun, kurangnya informasi dan gambar design yang belum lengkap pada tahapan konseptual, membuat estimasi ini sulit untuk dilakukan. Penelitian ini membahas faktor-faktor yang mempengaruhi biaya konstruksi suatu gedung perkantoran dan membuat suatu permodelan estimasi biaya konseptual pada gedung perkantoran dengan fuzzy logic. Hasil penelitian ini menunjukkan bahwa terdapat enam faktor utama yang mempengaruhi biaya konseptual pada konstruksi gedung perkantoran. Dengan keenam faktor ini, suatu permodelan estimasi biaya konseptual akan dibentuk dan dapat digunakan untuk memprediksi suatu proyek di masa mendatang.;

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Conceptual cost estimation plays an important role in the construction projects, where this estimation will determine the project's feasibility and budget funds for a projects. However, due to the lack of information and incomplete construction drawings during the conceptual phase, the cost estimation becomes difficult task to do. This research identifies office building factors that significantly influence the cost of construction projects using fuzzy logic and develop a reasonably accurate conceptual cost prototype that can be used in the office building construction projects The results showed that there are six main factors affecting significantly conceptual cost estimation in office building construction. Along with these factors, a conceptual cost prototype is identified and can be used in construction projects later on., Conceptual cost estimation plays an important role in the construction projects, where this estimation will determine the project's feasibility and budget funds for a projects. However, due to the lack of information and incomplete construction drawings during the conceptual phase, the cost estimation becomes difficult task to do. This research identifies office building factors that significantly influence the cost of construction projects using fuzzy logic and develop a reasonably accurate conceptual cost prototype that can be used in the office building construction projects The results showed that there are six main factors affecting significantly conceptual cost estimation in office building construction. Along with these factors, a conceptual cost prototype is identified and can be used in construction projects later on.]