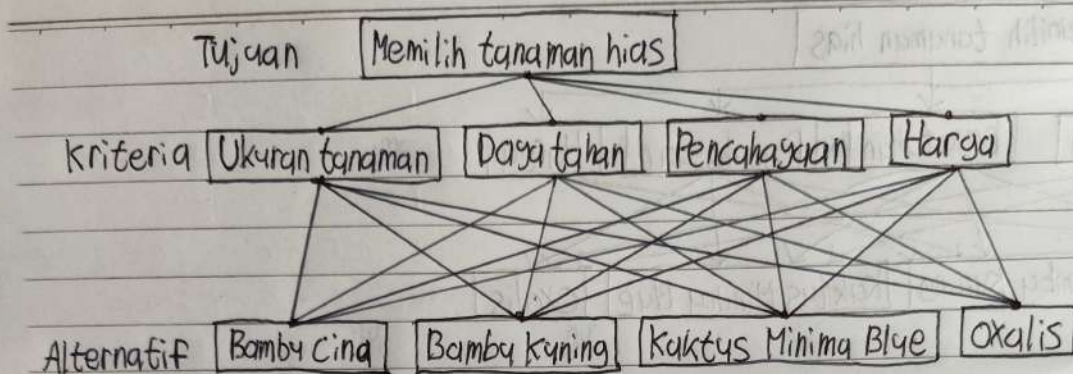


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NIM: 6211.21.0042

Matakul: Sistem Pendukung Keputusan



Matrik Perbandingan kriteria

Bentuk Desimal

	C1	C2	C3	C4
C1	1	5	2	3
C2	0	1	3	7
C3	0	0	1	3
C4	0	0	0	1

	C1	C2	C3	C4
C1	1	5	2	3
C2	1/5	1	3	7
C3	1/2	1/3	1	3
C4	1/3	1/7	1/3	1

	C1	C2	C3	C4
C1	1	5	2	3
C2	0,2	1	3	7
C3	0,5	0,33	1	3
C4	0,33	0,14	0,33	1
Total	2,03	6,47	6,33	14

Hasil Normalisasi

	C1	C2	C3	C4	P. Vector	Bobot
C1	0,482	0,772	0,315	0,214	1,793	0,448
C2	0,098	0,154	0,473	0,5	1,225	0,306
C3	0,246	0,051	0,157	0,214	0,668	0,167
C4	0,162	0,021	0,052	0,071	0,306	0,076

Eigen Value

$0,448 \times 2,03 = 0,909$
$0,306 \times 6,47 = 1,979$
$0,167 \times 6,33 = 1,057$
$0,076 \times 14 = 1,064$
$= 5,009$

Consistency Index

$$= \frac{(\text{Eigen Value} - n)}{(n - 1)}$$

$$= \frac{(5,009 - 4)}{(4 - 1)}$$

$$= \frac{1,009}{3}$$

$$= 0,336$$

Consistency Ratio

$$= \frac{0,336}{0,9}$$

$$= 0,373$$

Bobot alternatif dikalikan bobot normalisasi kriteria

	C1	C2	C3	C4	Total score
A1	3	3	2	2	1,344
A2	5	3	2	2	2,24
A3	1	1	3	1	0,448
A4	2	1	3	1	0,816

Hasil Diatas menunjukkan bahwa Tanaman Bamby kuning Sebesar = 3,644 mempunyai nilai tertinggi, sehingga menjadi alternatif terpilih