

Contoh Model Perhitungan AHP (1)

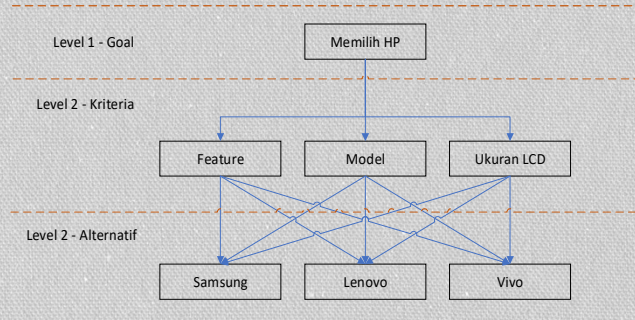
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1. synthesizing the pair-wise comparison matrix
2. calculating the priority vector for a criterion such as experience
3. calculating the consistency ratio
4. calculating λ_{max} ;
5. calculating the consistency index, CI;
6. selecting appropriate value of the random consistency ratio from table
7. checking the consistency of the pair-wise comparison matrix to check whether the decision-maker's (less than 10%)
8. comparisons were consistent or not

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The slide has a dark gray header bar with the title and logos. The main content area has a light gray background with a fine grid pattern and a faint plant illustration.

Model Hirarki



Akuisisi Data

Level 2 - Kriteria

Feature	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Model
Feature	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Ukuran LCD
Model	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Ukuran LCD

Level 3 - Alternatif (Berdasarkan kriteria Feature)

Samsung	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Lenovo
Samsung	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Vivo
Lenovo	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Vivo

Level 3 - Alternatif (Berdasarkan kriteria Model)

Samsung	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Lenovo
Samsung	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Vivo
Lenovo	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Vivo

Level 3 - Alternatif (Berdasarkan kriteria Ukuran LCD)

Samsung	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Lenovo
Samsung	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Vivo
Lenovo	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Vivo

Matriks Berpasangan

Level 2 - Kriteria

	Feature	Model	Ukr LCD
Feature	1	0,25	3
Model	4	1	6
Ukr LCD	0,33	0,17	1

Level 3 - Alternatif (Kriteria Model)

	Samsung	Lenovo	Vivo
Samsung	1	4	5
Lenovo	0,25	1	3
Vivo	0,20	0,33	1

Level 3 - Alternatif (Kriteria Feature)

	Samsung	Lenovo	Vivo
Samsung	1	6	7
Lenovo	0,166667	1	2
Vivo	0,14	0,50	1

Level 3 - Alternatif (Kriteria Ukuran LCD)

	Samsung	Lenovo	Vivo
Samsung	1	7	8
Lenovo	0,142857	1	2
Vivo	0,13	0,50	1

Perhitungan Eigen Value

Level 2 - Kriteria

	Feature	Model	Ukr LCD
Feature	1	0,25	3
Model	4	1	6
Ukr LCD	0,33	0,17	1
Jumlah	5,33	1,42	10

	Feature	Model	Ukr LCD	WP	WSM	CV
Feature	0,1875	0,1765	0,3000	0,2213	0,6728	3,0399
Model	0,7500	0,7059	0,6000	0,6853	2,1309	3,1094
Ukr LCD	0,0625	0,1176	0,1000	0,0934	0,2814	3,0131
Jumlah				1,0000		3,0541

Lmax 3,0541
 CI 0,0271
 CR 4,67%

Perhitungan Eigen Value

Level 3 - Alternatif (Kriteria Feature)

	Samsung	Lenovo	Vivo
Samsung	1	6	7
Lenovo	0,17	1	2
Vivo	0,14	0,50	1
Jumlah	1,31	7,50	10

	Model	Fitur	Ukr LCD	WP	WSM	CV
Samsung	0,7636	0,8000	0,7000	0,7545	2,3192	3,0736
Lenovo	0,1273	0,1333	0,2000	0,1535	0,4631	3,0164
Vivo	0,1091	0,0667	0,1000	0,0919	0,2765	3,0078
Jumlah				1,0000		3,0326

Lmax 3,0326
 CI 0,0163
 CR 2,81%

Perhitungan Eigen Value

Level 3 - Alternatif (Kriteria Model)

	Samsung	Lenovo	Vivo
Samsung	1	4	5
Lenovo	0,25	1	3
Vivo	0,20	0,33	1
Jumlah	1,45	5,33	9

	Model	Fitur	Ukr LCD	WP	WSM	CV
Samsung	0,6897	0,7500	0,5556	0,6651	2,1086	3,1705
Lenovo	0,1724	0,1875	0,3333	0,2311	0,7089	3,0677
Vivo	0,1379	0,0625	0,1111	0,1038	0,3139	3,0226
Jumlah				1,0000		3,0869

Lmax 3,0869
 CI 0,0435
 CR 7,50%

Perhitungan Eigen Value

Level 3 - Alternatif (Kriteria Ukuran LCD)

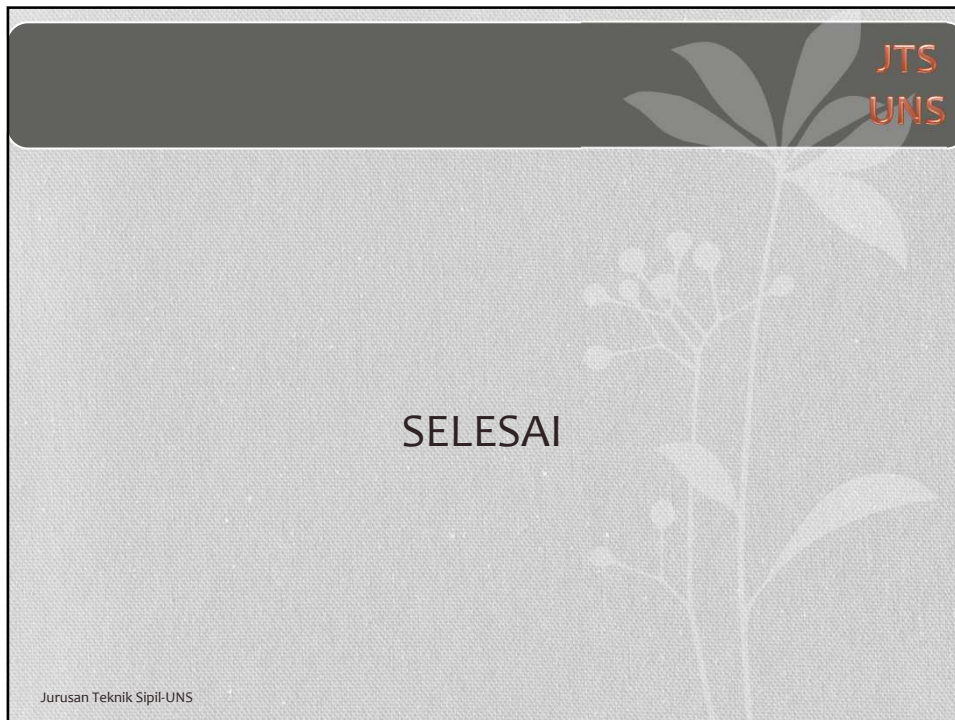
	Samsung	Lenovo	Vivo
Samsung	1	7	8
Lenovo	0,142857	1	2
Vivo	0,13	0,50	1
Jumlah	1,27	8,50	11

	Model	Fitur	Ukr LCD	WP	WSM	CV
Samsung	0,7887	0,8235	0,7273	0,7798	2,4037	3,0823
Lenovo	0,1127	0,1176	0,1818	0,1374	0,4143	3,0160
Vivo	0,0986	0,0588	0,0909	0,0828	0,2489	3,0075
Jumlah				1,0000		3,0353

Lmax 3,0353
 CI 0,0176
 CR 3,04%

Bobot Overall

	Feature	Model	Ukuran LCD	Prioritas
	0,2213	0,6853	0,0934	
Samsung	0,7545	0,6651	0,7798	69,56%
Lenovo	0,1535	0,2311	0,1374	20,52%
Vivo	0,0919	0,1038	0,0828	9,92%
				100,00%



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