

## 7. LAMPIRAN

Lampiran 1. *Worksheet* Uji Ranking Hedonik Manisan Tomat

### *Worksheet Uji Ranking Hedonik*

Jenis uji : Warna, Rasa, Teksture, dan *Overall*

Tanggal uji : 9 Mei 2012

Jenis sampel : Manisan Tomat

#### Identifikasi sampel:

	Kode
Manisan Tomat dengan pengeringan STD 1	A
Manisan Tomat dengan pengeringan STD 2	B
Manisan Tomat dengan pengeringan <i>Cabinet Dryer</i> 1	C
Manisan Tomat dengan pengeringan <i>Cabinet Dryer</i> 2	D
Manisan Tomat dengan pengeringan <i>Cabinet Dryer</i> 3	E

#### Kode kombinasi urutan penyajian:

ABCDE = 1    BCADE = 6    CDBAE = 11

ABCED = 2    BCAED = 7    CDBEA = 12

ABDEC = 3    BCDEA = 8    CDABE = 13

ABDCE = 4    BCDAE = 9    CDAEB = 14

ABEDC = 5    BCEDA = 10    CDEBA = 15

#### Penyajian:

<i>Booth</i>	Panelis	Kode Sampel
I	#1, 16	975, 973, 235, 811, 761
II	#2, 17	257, 752, 667, 813, 227
III	#3, 18	723, 395, 276, 174, 453
IV	#4, 19	448, 524, 982, 951, 455
I	#5, 20	539, 881, 594, 664, 529
II	#6, 21	312, 661, 469, 748, 942
III	#7, 22	493, 394, 647, 628, 599
IV	#8, 23	887, 882, 216, 786, 376
I	#9, 24	135, 116, 138, 848, 339
II	#10, 25	767, 226, 637, 741, 382
III	#11, 26	979, 198, 448, 598, 388
IV	#12, 27	693, 434, 999, 451, 695
I	#13, 28	629, 168, 555, 779, 442
II	#14, 29	255, 174, 317, 846, 416
III	#15, 30	939, 354, 671, 284, 777

#### Rekap kode sampel:

Sampel A	975, 257, 723, 448, 539, 469, 647, 376, 848, 382, 598, 695, 555, 317, 777
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Sampel B	973, 752, 395, 524, 881, 312, 493, 887, 135, 767, 448, 999, 779, 416, 284
Sampel C	235, 667, 453, 951, 529, 661, 394, 882, 116, 226, 979, 693, 629, 255, 939
Sampel D	811, 227, 276, 982, 664, 748, 599, 216, 138, 741, 198, 434, 168, 174, 354
Sampel E	761, 813, 174, 455, 594, 942, 628, 786, 339, 637, 388, 451, 442, 846, 671



Lampiran 2. *Scoresheet* Uji Ranging Hedonik Manisan Tomat

**Uji Ranging Hedonik**

Nama : \_\_\_\_\_ Tanggal : \_\_\_\_\_  
 Produk : Manisan Tomat  
 Penilaian untuk : Warna

**Instruksi :**

Dihadapan Anda terdapat 5 buah sampel Manisan Tomat, Anda diminta untuk memberikan penilaian terhadap warna. Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling tidak Anda sukai (=5)

**Kode Sampel**

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**Rangking** (jangan ada yang dobel)

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Terima kasih

### Uji Rangking Hedonik

Nama : \_\_\_\_\_ Tanggal : \_\_\_\_\_  
 Produk : Manisan Tomat  
 Penilaian untuk : Rasa

**Instruksi :**

Dihadapan Anda terdapat 5 buah sampel Manisan Tomat, Anda diminta untuk memberikan penilaian terhadap rasa. Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling kurang Anda sukai (=5).

**Kode Sampel**

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**Rangking** (jangan ada yang dobel)

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Terima kasih

### Uji Rangking Hedonik

Nama : \_\_\_\_\_ Tanggal : \_\_\_\_\_  
 Produk : Manisan Tomat  
 Penilaian untuk : Tekstur

**Instruksi :**

Dihadapan Anda terdapat 5 buah sampel Manisan Tomat, Anda diminta untuk memberikan penilaian terhadap tekstur. Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling tidak Anda sukai (=5)

**Kode Sampel**


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**Rangking** (jangan ada yang dobel)

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Terima kasih

**Uji Rangking Hedonik**

Nama : \_\_\_\_\_ Tanggal : \_\_\_\_\_  
 Produk : Manisan Tomat  
 Penilaian untuk : *Overall*

**Instruksi :**

Dihadapan Anda terdapat 5 buah sampel Manisan Tomat, Anda diminta untuk memberikan penilaian terhadap *overall*. Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling kurang Anda sukai (=5).

**Kode Sampel**


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**Rangking** (jangan ada yang dobel)

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Terima kasih

**Lampiran 3. Proses Pembuatan Manisan Tomat**

	<p>Buah tomat dipilih setengah masak atau matang yang ukurannya seragam.</p>
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	Tomat dipotong menjadi 4 bagian dan bagian isinya dibuang kemudian dicuci hingga bersih.
	Daging buah tomat direndam dalam larutan garam 3% (30g/liter air) selama satu malam (12jam)
	Daging buah tomat direndam dengan $\text{CaCl}_2$ selama 2 jam
	Tomat direndam dalam larutan gula 50% selama 12 jam sebanyak 2 kali

	
<p><i>Cabinet Dryer 60<sup>o</sup>C</i> selama 12jam, 18jam, 24jam</p>	<p><i>Solar Tunnel Dryer</i> Selama 6jam/ 1hari dan 12jam/2hari</p>
	
<p>Manisan Tomat</p>	

Lampiran 4. Analisa SPSS

Uji Beda antar Perlakuan

**Penelitian Pendahuluan : Kadar air**

## ANOVA

KADAR\_AIR

	Sum of Squares	df	Mean Square	F	Sig.
Betw een Groups	14566.154	8	1820.769	556.050	.000
Within Groups	58.940	18	3.274		
Total	14625.094	26			

KADAR\_AIR

Duncan<sup>a</sup>

PERLAKUAN	N	Subset for alpha = .05							
		1	2	3	4	5	6	7	8
4.00	3	1.9350							
9.00	3		8.9687						
3.00	3			12.3773					
2.00	3				15.7867				
1.00	3					34.4793			
8.00	3					36.7633			
7.00	3						47.6787		
6.00	3							64.1903	
5.00	3								70.2680
Sig.		1.000	1.000	1.000	1.000	.140	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

## Penelitian Utama

## Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
kadar_air	2.899	5	12	.061
vit_C	.	5	12	.
kekerasan	8.145	4	10	.003
L	.581	5	12	.714
a	1.806	5	12	.186
b	2.772	5	12	.069

## ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar_air	Between Groups	1606.440	5	321.288	467.175	.000
	Within Groups	8.253	12	.688		
	Total	1614.693	17			
vit_C	Between Groups	.002	5	.000		
	Within Groups	.000	12	.000		
	Total	.002	17			
kekerasan	Between Groups	84359246	4	21089811.40	36924.477	.000
	Within Groups	5711.607	10	571.161		
	Total	84364957	14			
L	Between Groups	395.078	5	79.016	53062.254	.000
	Within Groups	.018	12	.001		
	Total	395.096	17			
a	Between Groups	519.317	5	103.863	77253.753	.000
	Within Groups	.016	12	.001		
	Total	519.333	17			
b	Between Groups	697.204	5	139.441	100317.1	.000
	Within Groups	.017	12	.001		
	Total	697.220	17			

## kadar\_air

Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
CD 24	3	7.32133				
CD 18	3		12.33133			
Blanko	3		13.70000			
STD 12	3			15.55500		
CD 12	3				21.59300	
STD 6	3					36.76233
Sig.		1.000	.066	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Kekerasan**



## ANOVA

## KEKERASAN

	Sum of Squares	df	Mean Square	F	Sig.
Betw een Groups	79240082	3	26413360.70	115448.0	.000
Within Groups	1830.321	8	228.790		
Total	79241912	11			

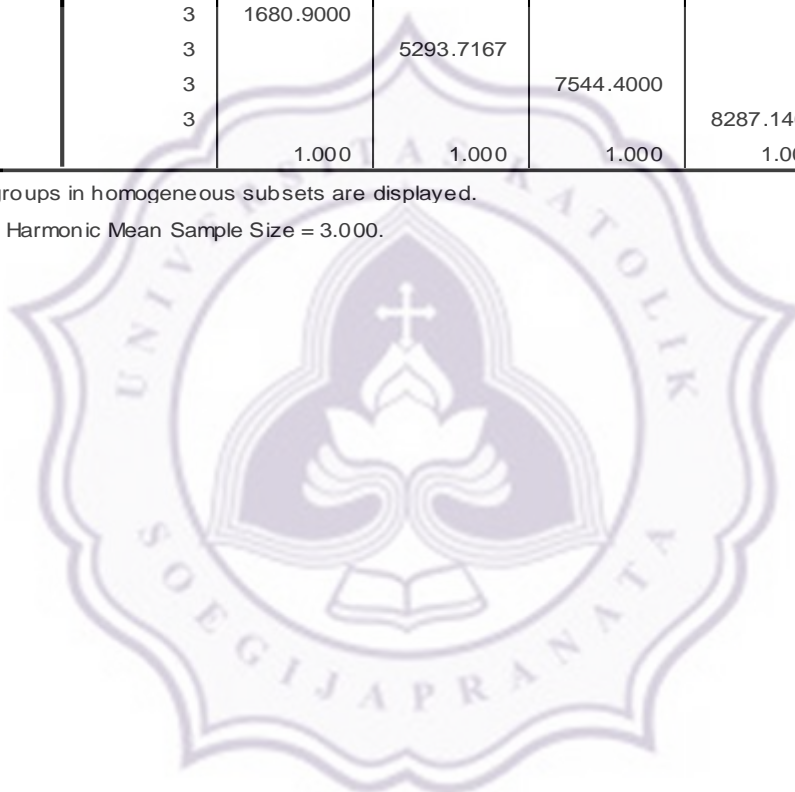
## KEKERASAN

Duncan <sup>a</sup>

PERLAKUAN	N	Subs et for alpha = .05			
		1	2	3	4
3.00	3	1680.9000			
1.00	3		5293.7167		
4.00	3			7544.4000	
2.00	3				8287.1467
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.



## Warna

L

Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
CD 12	3	40.43000					
Blanko	3		40.50000				
CD 24	3			44.73000			
STD 6	3				48.64000		
STD 12	3					50.77667	
CD 18	3						52.27067
Sig.		1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
Blanko	3	.63667					
STD 12	3		7.92333				
CD 24	3			10.64000			
CD 18	3				12.35333		
CD 12	3					15.68333	
STD 6	3						16.74667
Sig.		1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
Blanko	3	.86667					
CD 24	3		8.84667				
STD 12	3			10.69667			
CD 18	3				13.48333		
CD 12	3					17.23333	
STD 6	3						20.20333
Sig.		1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

## Uji Sensori

## NPar Tests

## Kruskal- Wallis Test

Test Statistics<sup>a,b</sup>

	warna	rasa	tekstur	overall
Chi-Square	27.284	18.973	18.708	20.010
df	4	4	4	4
Asymp. Sig.	.000	.001	.001	.000

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

## NPar Tests

## Mann whitney Test

## Perlakuan CD12 dan CD18

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	1.00	30	28.03	841.00
	2.00	30	32.97	989.00
	Total	60		
rasa	1.00	30	26.42	792.50
	2.00	30	34.58	1037.50
	Total	60		
tekstur	1.00	30	29.90	897.00
	2.00	30	31.10	933.00
	Total	60		
overall	1.00	30	29.38	881.50
	2.00	30	31.62	948.50
	Total	60		

Test Statistics<sup>a</sup>

	warna	rasa	tekstur	overall
Mann-Whitney U	376.000	327.500	432.000	416.500
Wilcoxon W	841.000	792.500	897.000	881.500
Z	-1.125	-1.850	-.273	-.509
Asymp. Sig. (2-tailed)	.260	.064	.785	.611

a. Grouping Variable: perlakuan

### Perlakuan CD12 dan CD24

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	1.00	30	29.45	883.50
	3.00	30	31.55	946.50
	Total	60		
rasa	1.00	30	23.87	716.00
	3.00	30	37.13	1114.00
	Total	60		
tekstur	1.00	30	25.77	773.00
	3.00	30	35.23	1057.00
	Total	60		
overall	1.00	30	23.88	716.50
	3.00	30	37.12	1113.50
	Total	60		

Test Statistics<sup>a</sup>

	warna	rasa	tekstur	overall
Mann-Whitney U	418.500	251.000	308.000	251.500
Wilcoxon W	883.500	716.000	773.000	716.500
Z	-.481	-3.004	-2.152	-3.009
Asymp. Sig. (2-tailed)	.630	.003	.031	.003

a. Grouping Variable: perlakuan

### Perlakuan CD 12 dan STD 6

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	1.00	30	35.43	1063.00
	4.00	30	25.57	767.00
	Total	60		
rasa	1.00	30	25.30	759.00
	4.00	30	35.70	1071.00
	Total	60		
tekstur	1.00	30	26.30	789.00
	4.00	30	34.70	1041.00
	Total	60		
overall	1.00	30	26.05	781.50
	4.00	30	34.95	1048.50
	Total	60		

**Test Statistics<sup>a</sup>**

	warna	rasa	tekstur	overall
Mann-Whitney U	302.000	294.000	324.000	316.500
Wilcoxon W	767.000	759.000	789.000	781.500
Z	-2.238	-2.357	-1.907	-2.017
Asymp. Sig. (2-tailed)	.025	.018	.056	.044

a. Grouping Variable: perlakuan

## Perlakuan CD12 dan STD12

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
warna	1.00	30	38.08	1142.50
	5.00	30	22.92	687.50
	Total	60		
rasa	1.00	30	31.42	942.50
	5.00	30	29.58	887.50
	Total	60		
tekstur	1.00	30	34.03	1021.00
	5.00	30	26.97	809.00
	Total	60		
overall	1.00	30	32.92	987.50
	5.00	30	28.08	842.50
	Total	60		

**Test Statistics<sup>a</sup>**

	warna	rasa	tekstur	overall
Mann-Whitney U	222.500	422.500	344.000	377.500
Wilcoxon W	687.500	887.500	809.000	842.500
Z	-3.468	-.422	-1.614	-1.106
Asymp. Sig. (2-tailed)	.001	.673	.106	.269

a. Grouping Variable: perlakuan

### Perlakuan CD18 dan CD24

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	2.00	30	31.83	955.00
	3.00	30	29.17	875.00
	Total	60		
rasa	2.00	30	27.07	812.00
	3.00	30	33.93	1018.00
	Total	60		
tekstur	2.00	30	25.63	769.00
	3.00	30	35.37	1061.00
	Total	60		
overall	2.00	30	24.30	729.00
	3.00	30	36.70	1101.00
	Total	60		

Test Statistics<sup>a</sup>

	warna	rasa	tekstur	overall
Mann-Whitney U	410.000	347.000	304.000	264.000
Wilcoxon W	875.000	812.000	769.000	729.000
Z	-.612	-1.566	-2.210	-2.825
Asymp. Sig. (2-tailed)	.541	.117	.027	.005

a. Grouping Variable: perlakuan

### Perlakuan CD18 dan STD6

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	2.00	30	36.75	1102.50
	4.00	30	24.25	727.50
	Total	60		
rasa	2.00	30	28.70	861.00
	4.00	30	32.30	969.00
	Total	60		
tekstur	2.00	30	26.57	797.00
	4.00	30	34.43	1033.00
	Total	60		
overall	2.00	30	26.47	794.00
	4.00	30	34.53	1036.00
	Total	60		

**Test Statistics<sup>a</sup>**

	warna	rasa	tekstur	overall
Mann-Whitney U	262.500	396.000	332.000	329.000
Wilcoxon W	727.500	861.000	797.000	794.000
Z	-2.851	-.818	-1.787	-1.832
Asymp. Sig. (2-tailed)	.004	.414	.074	.067

a. Grouping Variable: perlakuan

## Perlakuan CD18 dan STD 12

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
warna	2.00	30	39.45	1183.50
	5.00	30	21.55	646.50
	Total	60		
rasa	2.00	30	35.65	1069.50
	5.00	30	25.35	760.50
	Total	60		
tekstur	2.00	30	34.70	1041.00
	5.00	30	26.30	789.00
	Total	60		
overall	2.00	30	33.90	1017.00
	5.00	30	27.10	813.00
	Total	60		

**Test Statistics<sup>a</sup>**

	warna	rasa	tekstur	overall
Mann-Whitney U	181.500	295.500	324.000	348.000
Wilcoxon W	646.500	760.500	789.000	813.000
Z	-4.068	-2.337	-1.919	-1.549
Asymp. Sig. (2-tailed)	.000	.019	.055	.121

a. Grouping Variable: perlakuan

### Perlakuan CD24 dan STD 6

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	3.00	30	36.25	1087.50
	4.00	30	24.75	742.50
	Total	60		
rasa	3.00	30	31.75	952.50
	4.00	30	29.25	877.50
	Total	60		
tekstur	3.00	30	30.93	928.00
	4.00	30	30.07	902.00
	Total	60		
overall	3.00	30	32.90	987.00
	4.00	30	28.10	843.00
	Total	60		

Test Statistics<sup>a</sup>

	warna	rasa	tekstur	overall
Mann-Whitney U	277.500	412.500	437.000	378.000
Wilcoxon W	742.500	877.500	902.000	843.000
Z	-2.608	-.571	-.198	-1.099
Asymp. Sig. (2-tailed)	.009	.568	.843	.272

a. Grouping Variable: perlakuan

### Perlakuan CD24 dan STD 12

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	3.00	30	39.03	1171.00
	5.00	30	21.97	659.00
	Total	60		
rasa	3.00	30	38.18	1145.50
	5.00	30	22.82	684.50
	Total	60		
tekstur	3.00	30	38.47	1154.00
	5.00	30	22.53	676.00
	Total	60		
overall	3.00	30	38.48	1154.50
	5.00	30	22.52	675.50
	Total	60		



**Test Statistics<sup>a</sup>**

	warna	rasa	tekstur	overall
Mann-Whitney U	194.000	219.500	211.000	210.500
Wilcoxon W	659.000	684.500	676.000	675.500
Z	-3.873	-3.480	-3.620	-3.629
Asymp. Sig. (2-tailed)	.000	.001	.000	.000

a. Grouping Variable: perlakuan

## Perlakuan STD6 dan STD12

**Ranks**

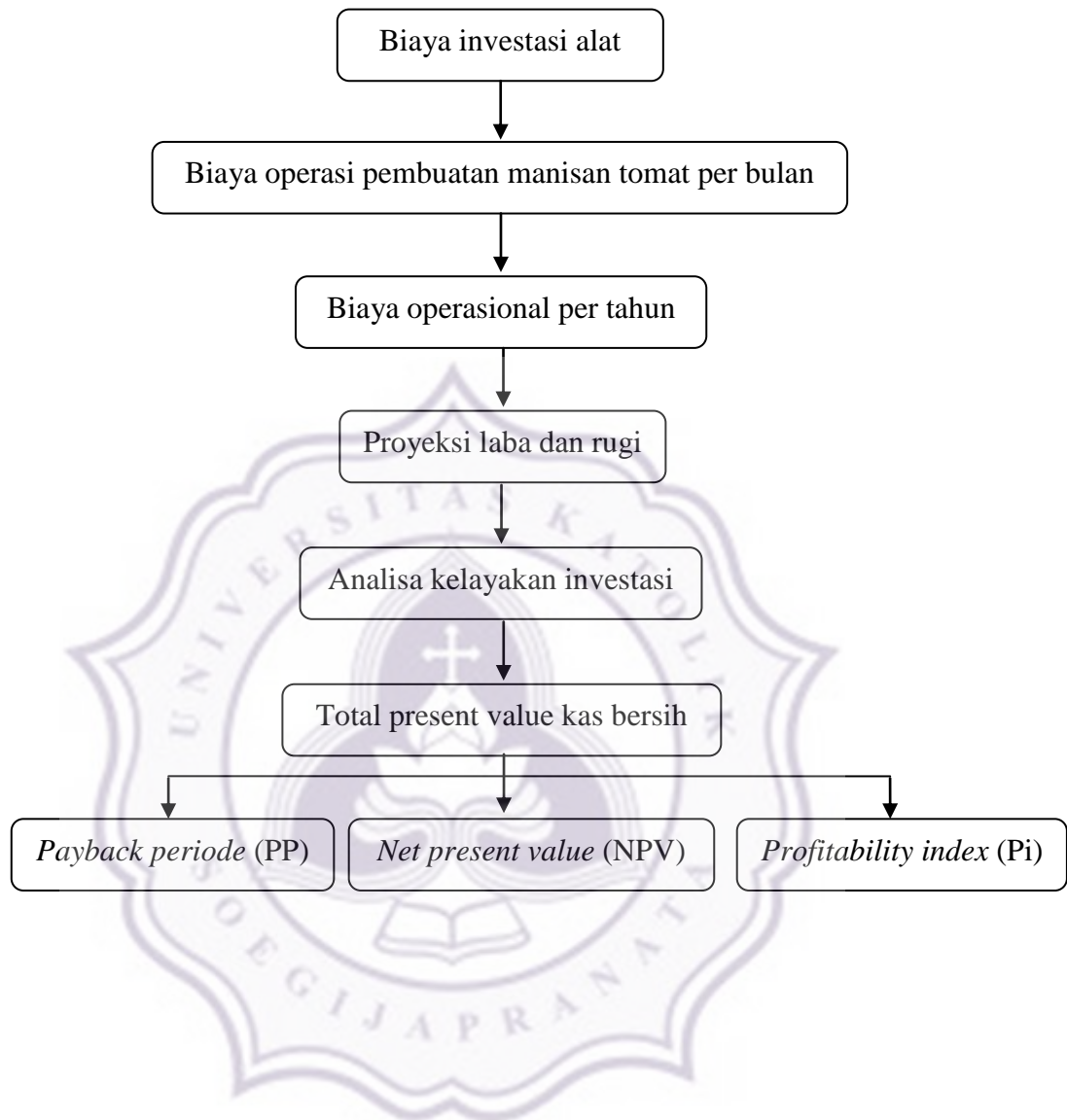
	perlakuan	N	Mean Rank	Sum of Ranks
warna	4.00	30	34.43	1033.00
	5.00	30	26.57	797.00
	Total	60		
rasa	4.00	30	36.75	1102.50
	5.00	30	24.25	727.50
	Total	60		
tekstur	4.00	30	37.80	1134.00
	5.00	30	23.20	696.00
	Total	60		
overall	4.00	30	36.57	1097.00
	5.00	30	24.43	733.00
	Total	60		

**Test Statistics<sup>a</sup>**

	warna	rasa	tekstur	overall
Mann-Whitney U	332.000	262.500	231.000	268.000
Wilcoxon W	797.000	727.500	696.000	733.000
Z	-1.814	-2.834	-3.311	-2.765
Asymp. Sig. (2-tailed)	.070	.005	.001	.006

a. Grouping Variable: perlakuan

Lampiran 5. Diagram Perhitungan Studi Kelayakan Usaha



## Lampiran 6. Appendix A-Present Value Tables

## PRESENT VALUE TABLE

APPENDIX TABLE 1

Discount factors: Present value of \$1 to be received after  $t$  years =  $1/(1 + r)^t$ .

Number of Years	Interest Rate per Year														
	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%
1	.990	.980	.971	.962	.952	.943	.935	.926	.917	.909	.901	.893	.885	.877	.870
2	.980	.961	.943	.925	.907	.890	.873	.857	.842	.826	.812	.797	.783	.769	.756
3	.971	.942	.915	.889	.864	.840	.816	.794	.772	.751	.731	.712	.693	.675	.658
4	.961	.924	.888	.855	.823	.792	.763	.735	.708	.683	.659	.636	.613	.592	.572
5	.951	.906	.863	.822	.784	.747	.713	.681	.650	.621	.593	.567	.543	.519	.497
6	.942	.888	.837	.790	.746	.705	.666	.630	.596	.564	.535	.507	.480	.456	.432
7	.933	.871	.813	.760	.711	.665	.623	.583	.547	.513	.482	.452	.425	.400	.376
8	.923	.853	.789	.731	.677	.627	.582	.540	.502	.467	.434	.404	.376	.351	.327
9	.914	.837	.766	.703	.645	.592	.544	.500	.460	.424	.391	.361	.333	.308	.284
10	.905	.820	.744	.676	.614	.558	.508	.463	.422	.386	.352	.322	.295	.270	.247
11	.896	.804	.722	.650	.585	.527	.475	.429	.388	.350	.317	.287	.261	.237	.215
12	.887	.788	.701	.625	.557	.497	.444	.397	.356	.319	.286	.257	.231	.208	.187
13	.879	.773	.681	.601	.530	.469	.415	.368	.326	.290	.258	.229	.204	.182	.163
14	.870	.758	.661	.577	.505	.442	.388	.340	.299	.263	.232	.205	.181	.160	.141
15	.861	.743	.642	.555	.481	.417	.362	.315	.275	.239	.209	.183	.160	.140	.123
16	.853	.728	.623	.534	.458	.394	.339	.292	.252	.218	.188	.163	.141	.123	.107
17	.844	.714	.605	.513	.436	.371	.317	.270	.231	.198	.170	.146	.125	.108	.093
18	.836	.700	.587	.494	.416	.350	.296	.250	.212	.180	.153	.130	.111	.095	.081
19	.828	.686	.570	.475	.396	.331	.277	.232	.194	.164	.138	.116	.098	.083	.070
20	.820	.673	.554	.456	.377	.312	.258	.215	.178	.149	.124	.104	.087	.073	.061

Lampiran 7. *Discount Factor (Bank Indonesia Rate)*

Tanggal	BI Rate	Siaran Pers
11 Okt 2012	5.75%	<u>Pranala siaran pers</u>
13 Sept 2012	5.75%	<u>Pranala siaran pers</u>
9 Agust 2012	5.75%	<u>Pranala siaran pers</u>
12 Juli 2012	5.75%	<u>Pranala siaran pers</u>
12 Juni 2012	5.75%	<u>Pranala siaran pers</u>
10 Mei 2012	5.75%	<u>Pranala siaran pers</u>
12 April 2012	5.75%	<u>Pranala siaran pers</u>
8 Maret 2012	5.75%	<u>Pranala siaran pers</u>
9 Feb 2012	5.75%	<u>Pranala siaran pers</u>

