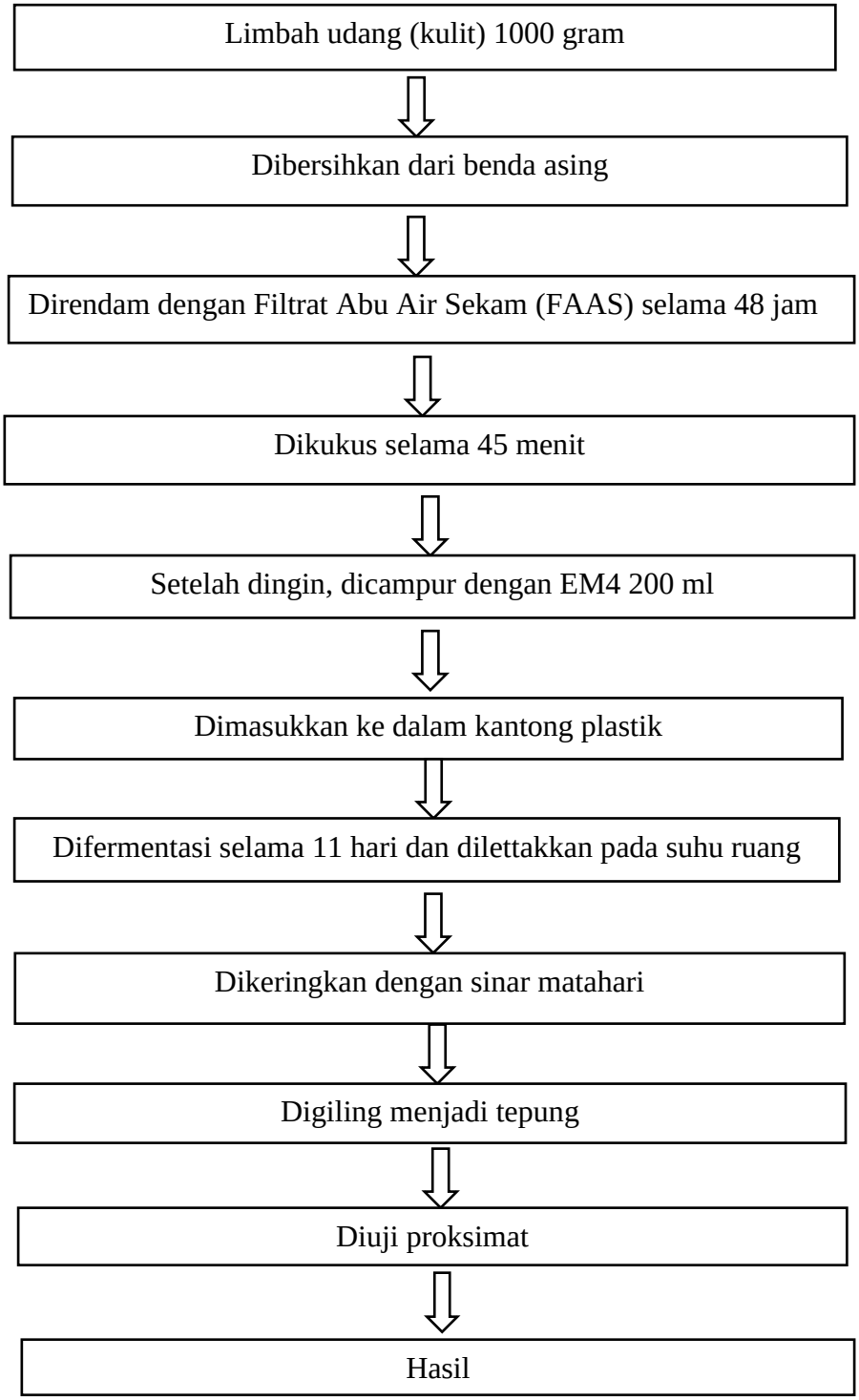
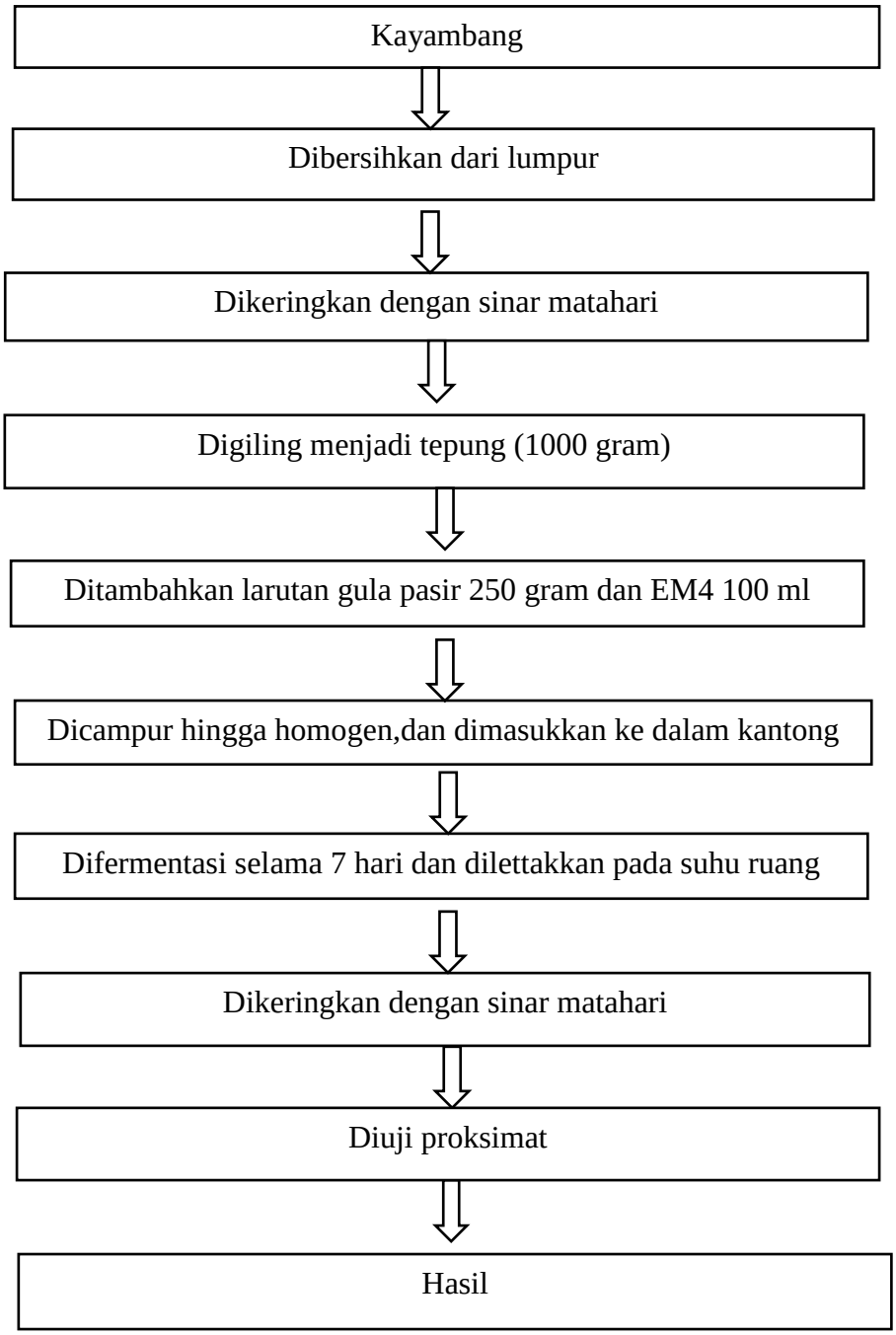
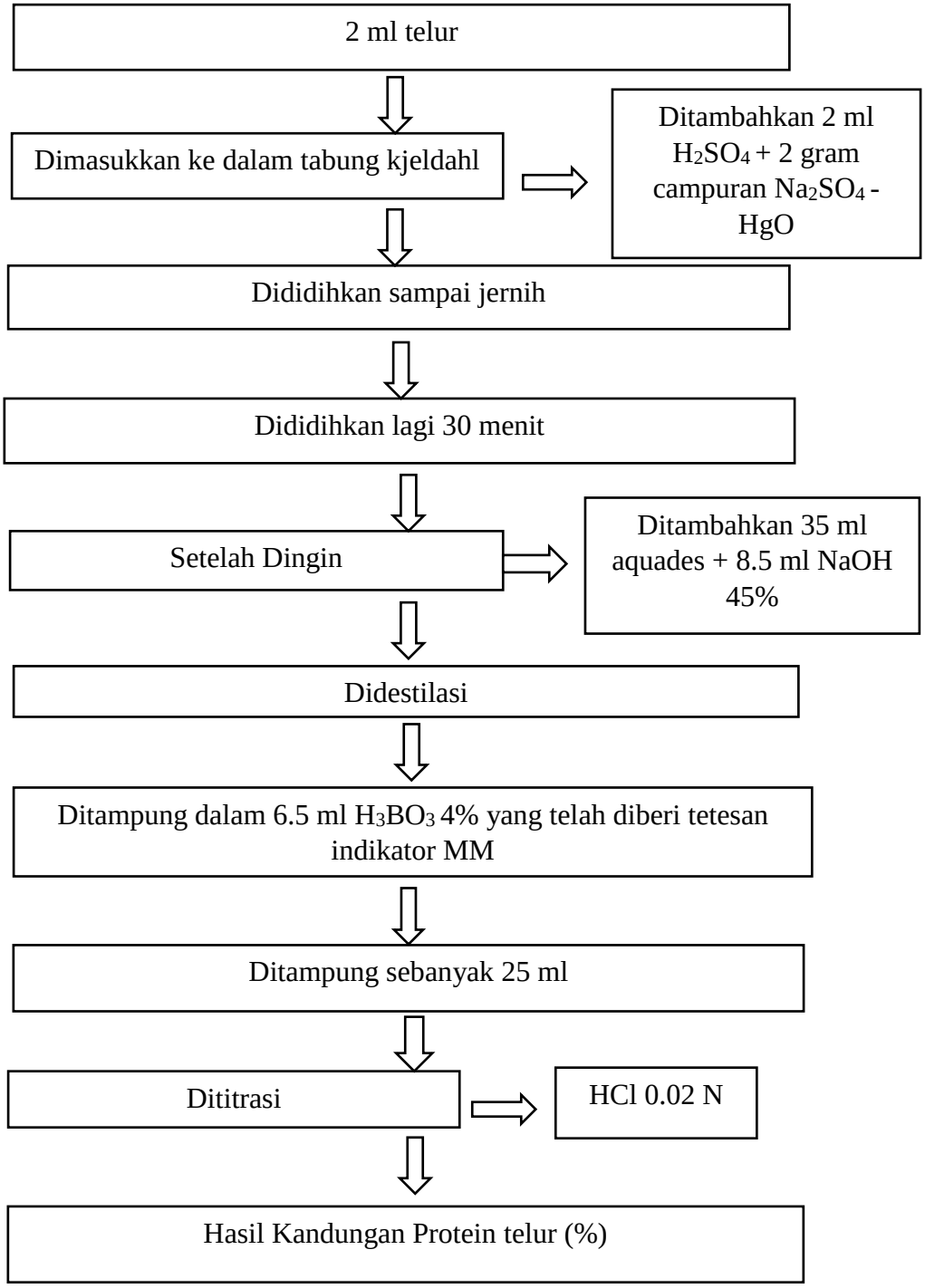
Lampiran I. Diagram Pembuatan Tepung Limbang Udang Terfermentasi



Lampiran 2. Diagram Pembuatan Tepung Kayambang Terfermentasi



Lampiran 3. Diagram Preperasi Sampel Uji Kandungan Protein Telur



Lampiran 4. Diagram Pengukuran Ketebalan Kerabang Telur

Dibersihkan permukaan benda ukur (kerabang telur) dan mulut ukur dari mikrometer

⇩

Diperiksa kesejajaran titik ”0” dan dilakukan kalibrasi sebelum mikrometer dipakai

⇩

Dibuka mulut ukur sampai sedikit melebihi dimensi objek ukur

⇩

Dipegang benda ukur (kerabang telur) dengan tangan kiri dan mikrometer dengan tangan kanan

⇩

Diletakkan mikrometer dengan posisi rangka di telapak tangan dan ditahan oleh kelingking, jari manis, dan jari tengah

⇩

Ditekan poros ukur dengan kekuatan sedang saat pengukuran

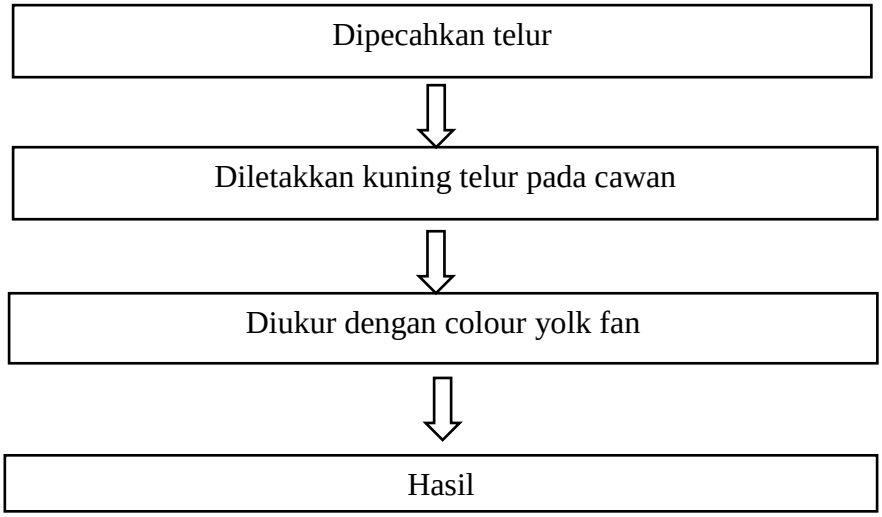
⇩

Dijepitkan mikrometer pada alat pemegang, kemudian diputar *thimble* kearah benda yang diukur, dan diputar *retcher stopper* sampai menyentuh *spindle* selanjutnya diputar kembali stopper 2 sampai 3 kali agar penekanan lebih meyakinkan

⇩

Hasil

Lampiran 5. Pengukuran Kuning Telur



Lampiran 6. Hasil Analisis Uji Proksimat Bahan Pakan

1. Tepung Kayambang Terfermentasi

No	Uraian	Jumlah
1.	Protein	9,79
2.	Lemak	0,15
3.	Serat Kasar	8,32

2. Tepung Limbah Udang

No	Uraian	Jumlah
1.	Protein	60,50
2.	Lemak	1,90
3.	Serat Kasar	17,85

3. Dedak

No	Uraian	Jumlah
1.	Protein	12,45
2.	Lemak	12,26
3.	Serat Kasar	9,86

4. Nasi Aking

No	Uraian	Jumlah
1.	Protein	0,79
2.	Lemak	0,00
3.	Serat Kasar	4,99

4. Konsentrat

No	Uraian	Jumlah
1.	Protein	18,77
2.	Lemak	6.66
3.	Serat Kasar	5,56

5. Kebi

No	Uraian	Jumlah
1.	Protein	12,05
2.	Lemak	12
3.	Serat Kasar	9,1

Sumber : Laboratorium Kimia UMM Malang (2014)

6. Kebutuhan nutrisi didalam ransum itik periode *layer* atau produksi

No	Parameter	Satuan	persyaratan
1.	Protein kasar	%	Min. 15,0
2.	Lemak kasar	%	Maks. 7,0
3.	Serat kasar	%	Maks. 8,0

Sumber : Badan Standart Nasional (2006)

Lampiran 7. Formulasi Ransum Itik Petelur Selama Penelitian

1. Formulasi Kontrol (P0)

No	P0	%	Protein	SK	Lemak	Jumlah Protein	Jumlah Sk	Jumlah Lemak
1.	Kayambang	0	9,79	8,32	0,15	0	0	0
2.	Udang	0	60,5	17,85	1,89	0	0	0
3.	Dedak	20	12,45	9,86	12,26	2,49	1,972	2,452
4.	Karak	15	0,79	4,99	0	0,1185	0,7485	0
5.	Kebi	25	12,05	9,1	12	3,0145	2,275	3
6.	Konsentrat	40	18,77	5,56	6,66	7,508	2,224	2,664
	Total	100				13,131	7,2195	8,116

2. Formulasi (P1)

No	P1	%	Protein	SK	Lemak	Jumlah Protein	Jumlah Sk	Jumlah Lemak
1.	Kayambang	20	9,79	8,32	0,15	1,958	1,664	0,03
2.	Udang	5	60,5	17,85	1,89	3,025	0,8925	0,0945
3.	Dedak	20	12,45	9,86	12,26	2,49	1,972	2,452
4.	Karak	25	0,79	4,99	0	0,1975	1,2475	0
5.	Kebi	10	12,058	9,1	12	1,20	0,91	1,2
6.	Konsentrat	20	18,77	5,56	6,66	3,754	1,112	1,332
	total	100				12,63	7,79	5,10

3. Formulasi (P2)

No	P2	%	Protein	SK	Lemak	Jumlah protein	Jumlah SK	Jumlah Lemak
1.	Kayambang	15	9,79	8,32	0,15	1,4685	1,248	0,0225
2.	Udang	10	60,5	17,85	1,89	6,05	1,785	0,189
3.	Dedak	20	12,45	9,86	12,26	2,49	1,972	2,452
4.	Karak	25	0,79	4,99	0	0,1975	1,2475	0
5.	Kebi	10	12,058	9,1	12	1,20	0,91	1,2
6.	Konsentrat	20	18,77	5,56	6,66	3,754	1,112	1,332
	Total	100				15,16	8,27	3,99

4. Formulasi (P3)

No	P3	%	Protein	SK	Lemak	Jumlah Protein	Jumlah SK	Jumlah Lemak
1.	Kayambang	10	9,79	8,32	0,15	0,979	0,832	0,015
2.	Udang	15	60,5	17,85	1,89	9,075	2,6775	0,2835
3.	Dedak	20	12,45	9,86	12,26	2,49	1,972	2,452
4.	Karak	25	0,79	4,99	0	0,1975	1,2475	0
5.	Kebi	10	12,058	9,1	12	1,20	0,91	1,2
6.	Konsentrat	20	18,77	5,56	6,66	3,754	1,112	1,332
	Total	100				17,70	8,75	4,08

5. Formulasi (P4)

No	P1	%	Protein	SK	Lemak	Jumlah Protein	Jumlah Sk	Jumlah Lemak
1.	Kayambang	5	9,79	8,32	0,15	0,4895	0,416	0,0075
2.	Udang	20	60,5	17,85	1,89	12,1	3,57	0,378
3.	Dedak	20	12,45	9,86	12,26	2,49	1,972	2,452
4.	Karak	25	0,79	4,99	0	0,1975	1,2475	0
5.	Kebi	10	12,058	9,1	12	1,20	0,91	1,2
6.	Konsentrat	20	18,77	5,56	6,66	3,754	1,112	1,332
	total	100				20,23	9,23	5,36

Lampiran 8. Perhitungan Efisiensi Biaya Ransum Selama Penelitian

Perlakuan P0

No	Bahan Ransum	Kebutuhan (g)	Kebutuhan 4 itik	Harga (g)	Total harga / 28 hari
1	Kayambang	0	0	0	Rp 0
2	Tepung Udang	0	0	0	Rp 0
3	Dedak	32	128	2,5	Rp 8960
4	Karak	24	96	3	Rp 8064
5	Kebi	40	160	4,5	Rp 20160
6	Konsentrat	64	256	8	Rp 57344
Total					Rp 94528

Perlakuan P1

No	Bahan Ransum	Kebutuhan (g)	Kebutuhan 4 itik	Harga (g)	Total harga/ 28 hari
1	Kayambang	32	128	2	Rp 7168
2	Tepung Udang	8	32	4	Rp 3584
3	Dedak	32	128	2,5	Rp 8960
4	Karak	40	160	3	Rp 13440
5	Kebi	16	64	4,5	Rp 8064
6	Konsentrat	32	128	8	Rp 28672
Total					Rp 69888

Perlakuan P2

No	Bahan Ransum	Kebutuhan (g)	Kebutuhan 4 itik	Harga (g)	Total harga/ 28 hari
1	Kayambang	24	96	2	Rp 5376
2	Tepung Udang	16	64	4	Rp 7168
3	Dedak	32	128	2,5	Rp 8960
4	Karak	40	160	3	Rp 13440
5	Kebi	16	64	4,5	Rp 8064

6	Konsentrat	32	128	8	Rp 28672
Total					Rp 71680

Perlakuan P3

No	Bahan Ransum	Kebutuhan (g)	Kebutuhan 4 itik	Harga (g)	Total harga/ 28 hari
1	Kayambang	16	64	2	Rp 3584
2	Tepung Udang	24	96	4	Rp 10752
3	Dedak	32	128	2,5	Rp 8960
4	Karak	40	160	3	Rp 13440
5	Kebi	16	64	4,5	Rp 8064
6	Konsentrat	32	128	8	Rp 28672
Total					Rp 73472

Perlakuan P4

No	Bahan Ransum	Kebutuhan (g)	Kebutuhan 4 itik	Harga (g)	Total harga/ 28 hari
1	Kayambang	8	32	2	Rp 1792
2	Tepung Udang	32	128	4	Rp 14336
3	Dedak	32	128	2,5	Rp 8960
4	Karak	40	160	3	Rp 13440
5	Kebi	16	64	4,5	Rp 8064
6	Konsentrat	32	128	8	Rp 28672
Total					Rp 75264

Lampiran 9. Pengaruh Pemberian Kombinasi Tepung Kayambang (*Salvinia molesta*) dan Tepung Limbah Udang Terfermentasi Terhadap Kualitas Telur Itik

9.1 Data Rataan Ketebalan Telur (mm)

Perlakuan	Ulangan				Total	Rerata
	1	2	3	4		
P0	0,45	0,44	0,46	0,45	1,8	0,45
P1	0,47	0,46	0,45	0,46	1,84	0,46
P2	0,47	0,48	0,48	0,47	1,9	0,475
P3	0,47	0,48	0,47	0,48	1,9	0,475
P4	0,47	0,48	0,48	0,46	1,89	0,4725

9.2 Data Rataan Warna Kuning Telur

Perlakuan	**Ulangan**				**Total**	**Rerata**
	1	2	3	4		
P0	8	8	7	8	31	7,75
P1	9	8	9	9	35	8,75
P2	10	10	11	10	41	10,25
P3	11	10	10	11	42	10,5
P4	9	9	10	10	38	9,5

9.3 Data Rataan Kandungan Protein Telur (%)

Perlakuan	Ulangan				Total	Rerata
	1	2	3	4		
P0	26,721	27,100	26,928	27,280	108,029	27,00725
P1	27,436	27,627	27,613	27,957	110,633	27,65825
P2	28,653	28,883	28,645	29,014	115,195	28,79875
P3	29,382	28,991	29,542	29,390	117,305	29,332625
P4	28,318	28,490	28,659	28,513	113,980	28,495

Lampiran 10. Perhitungan Hasil Penelitian Tentang Pengaruh Pemberian Kombinasi Tepung Kayambang *(Salvinea Molesta*) Dan Limbah Udang Terfermentasi Dalam Ransum Terhadapkualitas Telur Itik

10.1 Ketebalan Kerabang Telur

Diketahui:

$\sum x = 9,33$

N = 20

1. FK = x^2 : N

   = $9,33^2$: 20

   = 87,0489 : 20

   = 4,352445

2. Menghitung JK

JK Total Percobaan = $0,45^2 + 0,44^2 + ... + 0,48^2$ – FK

= 4,3553 – 4,352445

= 0,002855

JK Perlakuan = $1,8^2 + 1,84^2 +... + 1,9^2$: 4 - FK

= 4,354425 – 4,352445

= 0,00198

JK Galat = JK Total Percobaan – JK Perlakuan

= 0.002855 – 0,00198

= 0,000875

ANOVA

SK	Db	JK	KT	F hitung	F tabel 5%
Perlakuan	4	0,00198	0,000495	8,4857	3,06
Galat	15	0,000875	5,83333		
Total	19	0,002855			

F hitung > F tabel maka Ho ditolak jadi ada pengaruh pemberian kombinasi tepung kayambang *(Salvinea molesta*) dan limbah udang terfermentasi dalam ransum terhadap ketebalan kerabang sehingga dilanjutkan dengan uji lanjut BNT 1 %

2 □ 5,83334

= 2,947 x 0,0054

= 0,02

Perlakuan	Rata- rata (mm) ± sd	Notasi
P0	0,450 ± 0,00816	a
P1	0,460 ± 0,00816	ab
P4	0, 473 ± 0,00957	b
P2	0,475 ± 0,00577	b
P3	0,475 ± 0,00577	b

10.2 Warna Kuning Telur

Diketahui:

$\sum x = 187$

N = 20

1. FK = x^2 : N

= 187^2 : 20

= 34969 : 20

= 1748,45

2.Menghitung JK

JK Total Percobaan = $8^2 + 8^2 + ... + 11^2 - FK$

= 1773 – 1748,45

= 24,55

JK Perlakuan = $31^2 + 35^2 +... + 42^2$: 4 - FK

= 7075 : 4 – FK

= 1768,75 – 1748,45

= 20,3

JK Galat = JK Total Percobaan – JK Perlakuan
= 24,55 – 20,3
= 4,25

ANOVA

SK	Db	JK	KT	F hitung	F tabel 1%
Perlakuan	4	20,3	5,075	17,911	4,89
Galat	15	4,25	0,2833		
Total	19	24,55			

F hitung > F tabel maka Ho ditolak jadi ada pengaruh pemberian kombinasi tepung kayambang *(Salvinia molesta*) dan limbah udang terfermentasi dalam ransum terhadap warna kuning telur sehingga dilanjutkan dengan uji lanjut BNT 1%

2 □□ □□□□□□□□□□□□□

2 □ 0,28334

= 2,947 x 0,3764
= 1.11

Perlakuan	Rata – rata	Notasi
P0	7,75 ± 0,500	a
P1	8,75 ± 0,500	ab
P4	9,50 ± 0,500	bc
P2	10,25 ± 0,577	c
P3	10,50 ± 0,577	c

10,3 Kandungan Protein Telur

Diketahui:
∑x = 565,142
N = 20

1. FK = x^2 : N
   = $565,142^2$: 20
   = 319385,48 : 20
   = 15969,27
2. Menghitung JK

JK Total Percobaan = $26,721^2 + 27,100^2 + ... + 29,390^2$ – FK
= 15983,57 – 15969,27
= 14,29112

JK Perlakuan = $108,029^2 + 110,633^2 +... + 117,305^2$: 4 - FK
= 63931,72 : 4 – FK
= 15983,57 – 15969,27
= 13,6552

JK Galat = JK Total Percobaan – JK Perlakuan

= 14,29112 – 13,65524
= 0,635885

ANOVA

SK	Db	JK	KT	F hitung	F tabel 1%
Perlakuan	4	13,65524	3,41381	80,52895	4,89
Galat	15	0,635885	0,042392		
Total	19	14,29113			

F hitung > F tabel maka Ho ditolak jadi ada pengaruh pemberian kombinasi tepung kayambang *(Salvinia molesta*) dan limbah udang terfermentasi dalam ransum terhadap kadar protein telur sehingga dilanjutkan dengan uji lanjut BNT 1%

2 □□ □□□□□□□□□□□□□

2 □ 0,0424

= 2,947 x 0,15
= 0,44

Perlakuan	Rata- rata (%) ± sd	Notasi
P0	27,0072 ± 0,23890	a
P1	27,6583 ± 0,21731	b
P4	28,4950 ± 0,13973	c
P2	28,7988 ± 0,18103	c
P3	29,3262 ± 0,23531	d

Lampiran 11. Hasil Analisis Statistik Menggunakan SPSS

11.1 Pengaruh Pemberian Kombinasi Tepung Kayambang (*Salvinia molesta*) dan Limbah Udang Terermentasi Terhadap Ketebalan Kerabang Telur Itik

Npar Tests

One-Sample Kolmogorov-Smirnov Test

		data
N		20
Normal Parameters[a]	Mean	.4665
	Std. Deviation	.01226
Most Extreme Differences	Absolute	.212
	Positive	.135
	Negative	-.212
Kolmogorov-Smirnov Z		.950
Asymp. Sig. (2-tailed)		.328

a. Test distribution is Normal.

Oneway

ANOVA

Data	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.002	4	.000	8.486	.001
Within Groups	.001	15	.000		
Total	.003	19			

Descriptives

data	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	95% Confidence Interval for Mean Upper Bound	Minimum	Maximum
0	4	.4500	.00816	.00408	.4370	.4630	.44	.46
1	4	.4600	.00816	.00408	.4470	.4730	.45	.47
2	4	.4750	.00577	.00289	.4658	.4842	.47	.48
3	4	.4750	.00577	.00289	.4658	.4842	.47	.48
4	4	.4725	.00957	.00479	.4573	.4877	.46	.48
Total	20	.4665	.01226	.00274	.4608	.4722	.44	.48

Multiple Comparisons

Dependent Variable:data

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	99% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	1	-.01000	.00540	.084	-.0259	.0059
		2	-.02500*	.00540	.000	-.0409	-.0091
		3	-.02500*	.00540	.000	-.0409	-.0091
		4	-.02250*	.00540	.001	-.0384	-.0066
	1	0	.01000	.00540	.084	-.0059	.0259
		2	-.01500	.00540	.014	-.0309	.0009
		3	-.01500	.00540	.014	-.0309	.0009
		4	-.01250	.00540	.035	-.0284	.0034
	2	0	.02500*	.00540	.000	.0091	.0409
		1	.01500	.00540	.014	-.0009	.0309
		3	.00000	.00540	1.000	-.0159	.0159
		4	.00250	.00540	.650	-.0134	.0184
	3	0	.02500*	.00540	.000	.0091	.0409
		1	.01500	.00540	.014	-.0009	.0309
		2	.00000	.00540	1.000	-.0159	.0159
		4	.00250	.00540	.650	-.0134	.0184
	4	0	.02250*	.00540	.001	.0066	.0384
		1	.01250	.00540	.035	-.0034	.0284
		2	-.00250	.00540	.650	-.0184	.0134
		3	-.00250	.00540	.650	-.0184	.0134

*. The mean difference is significant at the 0.01 level.

Homogeneous Subsets

Data

	perlakuan	N	Subset for alpha = 0.01	
			1	2
Duncan[a]	0	4	.4500	
	1	4	.4600	.4600
	4	4		.4725
	2	4		.4750
	3	4		.4750
	Sig.		.084	.021

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4,000.

12.2 Pengaruh Pemberian Kombinasi Tepung Kayambang (*Salvinia molesta*) dan Limbah Udang Terermentasi Terhadap Warna Kuning Telur Itik

Npar Tests

One-Sample Kolmogorov-Smirnov Test

		data
N		20
Normal Parameters[a]	Mean	9.35
	Std. Deviation	1.137
Most Extreme Differences	Absolute	.216
	Positive	.134
	Negative	-.216
Kolmogorov-Smirnov Z		.967
Asymp. Sig. (2-tailed)		.307

a. Test distribution is Normal.

Oneway

ANOVA

Data	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	20.300	4	5.075	17.912	.000
Within Groups	4.250	15	.283		
Total	24.550	19			

Standart Deviasi

Descriptives

Data	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	4	7.75	.500	.250	6.95	8.55	7	8
1	4	8.75	.500	.250	7.95	9.55	8	9
2	4	10.25	.500	.250	9.45	11.05	10	11
3	4	10.50	.577	.289	9.58	11.42	10	11
4	4	9.50	.577	.289	8.58	10.42	9	10
Total	20	9.35	1.137	.254	8.82	9.88	7	11

Post Hoc Tests

Multiple Comparisons

Dependent Variable:data

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	99% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	1	-1.000	.376	.018	-2.11	.11
		2	-2.500*	.376	.000	-3.61	-1.39
		3	-2.750*	.376	.000	-3.86	-1.64
		4	-1.750*	.376	.000	-2.86	-.64
	1	0	1.000	.376	.018	-.11	2.11
		2	-1.500*	.376	.001	-2.61	-.39
		3	-1.750*	.376	.000	-2.86	-.64
		4	-.750	.376	.065	-1.86	.36
	2	0	2.500*	.376	.000	1.39	3.61
		1	1.500*	.376	.001	.39	2.61
		3	-.250	.376	.517	-1.36	.86
		4	.750	.376	.065	-.36	1.86
	3	0	2.750*	.376	.000	1.64	3.86
		1	1.750*	.376	.000	.64	2.86
		2	.250	.376	.517	-.86	1.36
		4	1.000	.376	.018	-.11	2.11
	4	0	1.750*	.376	.000	.64	2.86
		1	.750	.376	.065	-.36	1.86
		2	-.750	.376	.065	-1.86	.36
		3	-1.000	.376	.018	-2.11	.11

*. The mean difference is significant at the 0.01 level.

Homogeneous Subsets

data

	perlakuan	N	Subset for alpha = 0.01		
			1	2	3
Duncan[a]	0	4	7.75		
	1	4	8.75	8.75	
	4	4		9.50	9.50
	2	4			10.25
	3	4			10.50
	Sig.		.018	.065	.023

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4,000.

11.3 Pengaruh Pemberian Kombinasi Tepung Kayambang (*Salvinia molesta*) dan Limbah Udang Terermentasi Terhadap Protein Telur Itik

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		data
N		17
Normal Parameters[a]	Mean	2.81309E1
	Std. Deviation	.869571
Most Extreme Differences	Absolute	.135
	Positive	.131
	Negative	-.135
Kolmogorov-Smirnov Z		.555
Asymp. Sig. (2-tailed)		.918

a. Test distribution is Normal.

Oneway

ANOVA

data	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13.655	4	3.414	80.529	.000
Within Groups	.636	15	.042		
Total	14.291	19			

Standart Deviasi

Descriptives

data	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	4	2.7007E1	.23890	.11945	26.6271	2.7387E1	26.72	27.28
1	4	2.7658E1	.21731	.10865	27.3125	2.8004E1	27.44	27.96
2	4	2.8799E1	.18103	.09051	28.5107	2.9087E1	28.64	29.01
3	4	2.9326E1	.23531	.11766	28.9518	2.9701E1	28.99	29.54
4	4	2.8495E1	.13973	.06987	28.2727	2.8717E1	28.32	28.66
Total	20	2.8257E1	.86727	.19393	27.8512	2.8663E1	26.72	29.54

Post Hoc Tests

Multiple Comparisons

Dependent Variable:data

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	99% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	1	-.65100*	.14559	.000	-1.0800	-.2220
		2	-1.79150*	.14559	.000	-2.2205	-1.3625
		3	-2.31900*	.14559	.000	-2.7480	-1.8900
		4	-1.48775*	.14559	.000	-1.9168	-1.0587
	1	0	.65100*	.14559	.000	.2220	1.0800
		2	-1.14050*	.14559	.000	-1.5695	-.7115
		3	-1.66800*	.14559	.000	-2.0970	-1.2390
		4	-.83675*	.14559	.000	-1.2658	-.4077
	2	0	1.79150*	.14559	.000	1.3625	2.2205
		1	1.14050*	.14559	.000	.7115	1.5695
		3	-.52750*	.14559	.003	-.9565	-.0985
		4	.30375	.14559	.054	-.1253	.7328
	3	0	2.31900*	.14559	.000	1.8900	2.7480
		1	1.66800*	.14559	.000	1.2390	2.0970
		2	.52750*	.14559	.003	.0985	.9565
		4	.83125*	.14559	.000	.4022	1.2603
	4	0	1.48775*	.14559	.000	1.0587	1.9168
		1	.83675*	.14559	.000	.4077	1.2658
		2	-.30375	.14559	.054	-.7328	.1253
		3	-.83125*	.14559	.000	-1.2603	-.4022

*. The mean difference is significant at the 0.01 level.

Homogeneous Subsets

data

	perlakuan	N	Subset for alpha = 0.01			
			1	2	3	4
Duncan[a]	0	4	27.0072			
	1	4		27.6583		
	4	4			28.4950	
	2	4			28.7988	
	3	4				29.3262
	Sig.		1.000	1.000	.054	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4,000.

Lampiran 12 Dokumentasi Penelitian

Gambar 12.1 Perendaman FAAS

Gambar 12.2 Pemberian EM4

Gambar 12.3 Fermentasi Limbah udang udang

Gambar 12.4 Penjemuran Limbah

Gambar 12.5 Tepung limbah udang

Gambar 12.6 pengambilan Kayambang

Gambar 12.7 Pelarutan Gula

Gambar 12.8 Penambahan EM4

Gambar 12.9 EM4

Gambar 12.10 Tepung kayambang

Gambar 12.11 Karak

Gambar 12.12 Dedak

Gambar 12.13 Kebi

Gambar 12.14 Konsentrat

Gambar 12.15 seperangkat kandang 1tik

Gambar 12.16 pemberian pakan

Gambar 12 .17 Pengambilan Telur

Gambar 12.18 Telur

Gambar 12.17 penimbangan pakan telur

Gambar 12.18 Ransum

Gambar 12 .19 mikrometer

Gambar 12.20 Colour yolk Fan