

# LAMPIRAN



**Lampiran 01 Analisis Data Bobot Hepar dengan menggunakan RAL**

**Tabel 02. Data Bobot Hepar (g)**

	P0	P1	P2	P3	P4	$\Sigma x$
U1	43.30	29.90	52.00	33.30	33.20	191.70
U2	37.20	38.00	45.80	34.70	28.95	184.65
U3	42.10	47.90	33.40	36.80	33.50	193.70
U4	33.60	-	67.85	48.93	37.05	187.43
U5	40.40	-	36.90	-	28.93	106.23
$\Sigma y$	196.60	115.80	235.95	153.73	161.63	863.71
$\bar{Y}$	39.32 <sup>a</sup>	38.60 <sup>a</sup>	47.19 <sup>a</sup>	38.43 <sup>a</sup>	32,33 <sup>a</sup>	172.74 <sup>a</sup>

Sumber :Data Primer : Indah E, 2001

**Perhitungan-Perhitungan :**

$$FK = \frac{172,74^2}{22} = 33908,86$$

$$\begin{aligned} JKT &= (43,30^2 + \dots + 28,93^2) - FK \\ &= 35640,72 - 33908,86 \\ &= 1731,86 \end{aligned}$$

$$\begin{aligned} JKP &= \left( \frac{196,60^2}{5} + \frac{115,80^2}{3} + \frac{235,95^2}{5} + \frac{153,73^2}{4} + \frac{161,63^2}{5} \right) - FK \\ &= (7730,31 + 4469,88 + 11134,48 + 5908,20 + 5224,85) - FK \\ &= 34467,72 - 33908,86 = 558,86 \end{aligned}$$

$$\begin{aligned} JKG &= JKT - JKP \\ &= 1731,86 - 558,86 = 1173,00 \end{aligned}$$

$$dB \text{ total} = 5 + 3 + 5 + 4 + 5 = 21$$

$$dB \text{ perlakuan} = 4$$

$$dB \text{ galat} = 17$$

$$KTP = \frac{JKP}{dbp} = \frac{558,86}{4} = 139,72$$

$$KTG = \frac{JKG}{dbg} = \frac{1173,00}{17} = 69,00$$

$$F_{hitung} = \frac{KTP}{KTG} = \frac{139,73}{69} = 2,03$$

Tabel Anova

SV	db	JK	KT	F Hitung	F Tabel 5%
Perlakuan	4	558,86	139,72	2,03	2,96
Galat	17	1173,00	69,00		
Jumlah	21	1731,86			

Sumber : Data Primer : Indah E, 2001

### Lampiran 02. Analisis Data Diameter Hepar dengan menggunakan RAL

Tabel 03. Data Diameter Hepar ( $\mu$ )

	P0	P1	P2	P3	P4	$\Sigma x$
U1	11,00	10,63	9,72	12,47	11,37	55,19
U2	11,00	10,82	10,82	11,00	13,38	57,02
U3	9,90	11,73	11,92	9,53	12,65	55,73
U4	10,08	-	11,37	10,38	13,02	44,85
U5	8,43	-	11,92	-	10,82	31,17
$\Sigma y$	50,41	33,18	55,75	43,38	61,24	243,96
$\bar{y}$	10,08 <sup>a</sup>	11,06 <sup>a</sup>	11,15 <sup>a</sup>	10,85 <sup>a</sup>	12,25 <sup>a</sup>	

Sumber : Data Primer. Oleh : Indah E

Tabel Anova

SV	db	JK	KT	F Hitung	F Tabel 5%
Perlakuan	4	12,05	3,01	2,84	2,96
Galat	17	12,99	1,06		
Jumlah	21	30,04			

Lampiran 03. Analisis Data Rata-Rata Konsumsi Pakan Ayam Umur 7 Minggu.

Tabel 04. Data Konsumsi Pakan Harian Ayam Umur 7 Minggu (g)

	P0	P1	P2	P3	P4
U1	35,17	35,37	36,76	36,14	31,40
U2	33,67	35,81	37,28	35,96	30,75
U3	36,43	35,54	35,55	36,08	33,05
U4	35,20	-	37,74	35,46	30,05
U5	35,55	-	36,34	-	28,47
$\Sigma_y$	176,02	106,72	183,67	143,64	153,72
Y	35,20 <sup>b</sup>	35,57 <sup>bc</sup>	36,73 <sup>c</sup>	35,91 <sup>bc</sup>	30,74 <sup>a</sup>

Sumber :Data Primer : Indah E, 2000

Tabel Anova

SV	db	JK	KT	F Hitung	F Tabel 5 %
Perlakuan	4	108,35	27,09	24,63	2,96
Galat	17	18,63	1,10		
Jumlah	21	126,98			

Perhitungan Uji BNT Konsumsi Pakan Harian taraf 5%.

$$BNT = t_{\alpha/2} \cdot fc \left\{ KTG \left( \frac{1}{n_i} + \frac{1}{n_j} \right) \right\}^{1/2}$$

$$P0 \text{ dan } P1 = 2,11 \left\{ 1,10 \left( \frac{1}{5} + \frac{1}{3} \right) \right\}^{1/2} = 1,62 > 0,37^{in}$$

$$P0 \text{ dan } P2 = 2,11 \left\{ 1,10 \left( \frac{1}{5} + \frac{1}{5} \right) \right\}^{1/2} = 1,40 < 1,53^*$$

$$P0 \text{ dan } P3 = 2,11 \left\{ 1,10 \left( \frac{1}{5} + \frac{1}{4} \right) \right\}^{1/2} = 1,48 > 0,71^{in}$$

$$P0 \text{ dan } P4 = 2,11 \left\{ 1,10 \left( \frac{1}{5} + \frac{1}{5} \right) \right\}^{1/2} = 1,40 < 4,46^*$$

$$P1 \text{ dan } P2 = 2,11 \left\{ 1,10 \left( \frac{1}{3} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 1,62 \langle 1,16^m$$

$$P1 \text{ dan } P3 = 2,11 \left\{ 1,10 \left( \frac{1}{3} + \frac{1}{4} \right) \right\}^{\frac{1}{2}} = 1,69 \langle 0,34^m$$

$$P1 \text{ dan } P4 = 2,11 \left\{ 1,10 \left( \frac{1}{3} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 1,62 \langle 4,83^*$$

$$P2 \text{ dan } P3 = 2,11 \left\{ 1,10 \left( \frac{1}{5} + \frac{1}{4} \right) \right\}^{\frac{1}{2}} = 1,48 \langle 0,82^m$$

$$P2 \text{ dan } P4 = 2,11 \left\{ 1,10 \left( \frac{1}{5} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 1,40 \langle 5,99^*$$

$$P3 \text{ dan } P4 = 2,11 \left\{ 1,10 \left( \frac{1}{4} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 1,48 \langle 5,17^*$$

P4	P0	P1	P3	P2
30,74 <sup>a</sup>	35,20 <sup>b</sup>	35,57 <sup>bc</sup>	35,9 <sup>bc</sup>	36,73 <sup>c</sup>

Lampiran 04. Analisis Data Bobot Badan Ayam Umur 7 Minggu (g)

Tabel 05. Bobot Badan Ayam Umur 7 Minggu (g)

	P0	P1	P2	P3	P4
U1	2465,30	2481,00	2212,67	2109,50	1849,37
U2	2297,90	2344,80	2221,93	1758,23	1619,80
U3	2464,09	2145,23	1794,13	2039,90	1627,60
U4	2193,33	-	2369,17	2079,03	1689,03
U5	2548,27	-	2228,30	-	1644,17
$\Sigma_y$	11968,89	6971,03	10826,20	7986,66	8429,97
Y	2393,78 <sup>d</sup>	2323,68 <sup>cd</sup>	2165,24 <sup>bc</sup>	1996,67 <sup>b</sup>	1686,00 <sup>a</sup>

Tabel Anova.

SV	db	JK	KT	F Hitung	F Tabel 5%
Perlakuan	4	1202606,41	375651,60	14,40*	2,96
Galat	17	443566,91	26092,17		
Jumlah	21	1946173,32			

Perhitungan Uji BNT bobot badan taraf 5%

$$BNT = t_{\frac{\alpha}{2}} \cdot fc \cdot \left\{ KTG \left( \frac{1}{n_i} + \frac{1}{n_j} \right) \right\}^{\frac{1}{2}}$$

$$T_{0,025; 17} = 2,11$$

$$P0 \text{ dan } P1 = 2,11 \cdot \left\{ 26092,17 \left( \frac{1}{5} + \frac{1}{3} \right) \right\}^{\frac{1}{2}} = 248,91 > 70,1^{in}$$

$$P0 \text{ dan } P2 = 2,11 \cdot \left\{ 26092,17 \left( \frac{1}{5} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 215,56 < 228,54^{in}$$

$$P0 \text{ dan } P3 = 2,11 \cdot \left\{ 26092,17 \left( \frac{1}{5} + \frac{1}{4} \right) \right\}^{\frac{1}{2}} = 228,64 < 397,11^{in}$$

$$P0 \text{ dan } P4 = 2,11 \cdot \left\{ 26092,17 \left( \frac{1}{5} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 215,56 < 707,78^{in}$$

$$P1 \text{ dan } P2 = 2,11 \left\{ 26092,17 \left( \frac{1}{3} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 248,91 \backslash 158,44^{\text{in}}$$

$$P1 \text{ dan } P3 = 2,11 \left\{ 26092,17 \left( \frac{1}{3} + \frac{1}{4} \right) \right\}^{\frac{1}{2}} = 260,31 \backslash 327,01^*$$

$$P1 \text{ dan } P4 = 2,11 \left\{ 26092,17 \left( \frac{1}{3} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 248,91 \backslash 637,68^*$$

$$P2 \text{ dan } P3 = 2,11 \left\{ 26092,17 \left( \frac{1}{5} + \frac{1}{4} \right) \right\}^{\frac{1}{2}} = 228,64 \backslash 168,57^{\text{in}}$$

$$P2 \text{ dan } P4 = 2,11 \left\{ 26092,17 \left( \frac{1}{5} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 215,56 \backslash 479,24^*$$

$$P3 \text{ dan } P4 = 2,11 \left\{ 26092,17 \left( \frac{1}{4} + \frac{1}{5} \right) \right\}^{\frac{1}{2}} = 228,64 \backslash 310,67^*$$

P4	P3	P2	P1	P0
1686,00 <sup>d</sup>	1996,67 <sup>cd</sup>	2165,24 <sup>bc</sup>	2323,68 <sup>b</sup>	2393,78 <sup>a</sup>

## Lampiran 05. Analisis Data Rata-rata Proksimat Ransum

Tabel 06. Data Analisis Rata-rata Proksimat Ransum

Macam Analisa	Perlakuan				
	P0	P1	P2	P3	P4
Protein (%)	23,2176 <sup>c</sup>	21,47295 <sup>d</sup>	20,6489 <sup>c</sup>	19,8991 <sup>b</sup>	18,33235 <sup>a</sup>
Lemak (%)	13,70215 <sup>a</sup>	15,1033 <sup>c</sup>	14,40865 <sup>b</sup>	14,8363 <sup>b</sup>	17,0958 <sup>d</sup>
Abu (%)	4,77385 <sup>a</sup>	4,78345 <sup>a</sup>	4,93555 <sup>a</sup>	4,8475 <sup>a</sup>	5,2906 <sup>b</sup>
Air (%)	11,7504 <sup>a</sup>	11,7985 <sup>ab</sup>	11,8585 <sup>bc</sup>	11,8999 <sup>c</sup>	12,02215 <sup>d</sup>
Serat Kasar (%)	3,3064 <sup>a</sup>	3,7985 <sup>b</sup>	4,41425 <sup>c</sup>	5,5827 <sup>d</sup>	5,4716 <sup>d</sup>
Ca (%)	0,9319 <sup>c</sup>	0,92635 <sup>bc</sup>	0,75395 <sup>a</sup>	0,86805 <sup>b</sup>	0,7279 <sup>a</sup>
Pospor (%)	0,7256 <sup>b</sup>	0,7307 <sup>b</sup>	0,6630 <sup>a</sup>	0,65845 <sup>a</sup>	0,6839 <sup>ab</sup>
Kalori ( kal/g)	3534,9	3586,1	3531,8	3518,1	3621,6





## Lampiran 06. Data Temperatur Harian

Tabel 07. Data Temperatur Harian (°C)

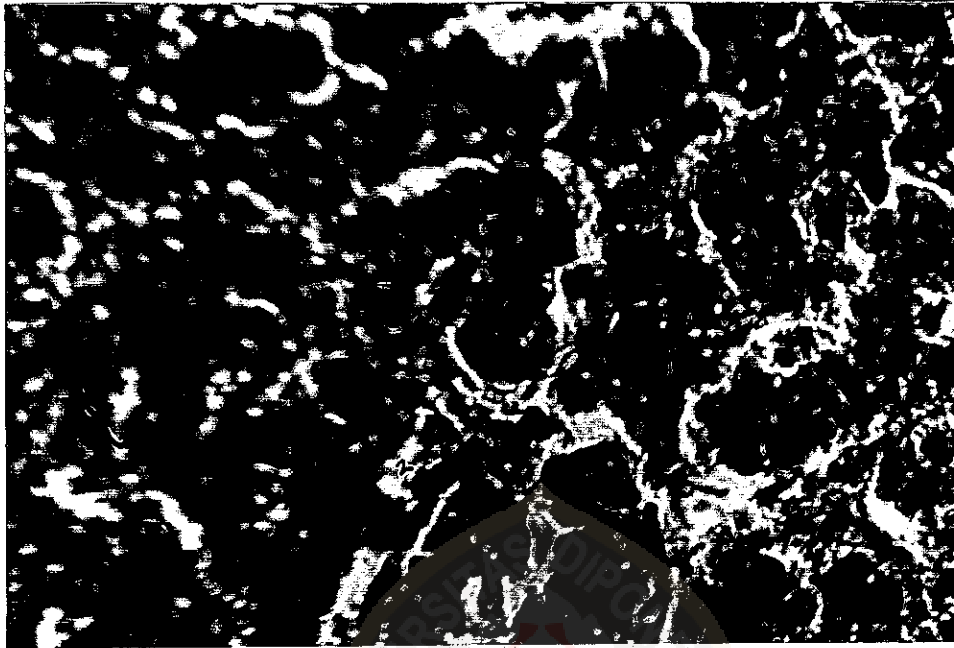
MINGGU KE	HARI KE	PAGI (07.00)	SIANG (12.00)	SORE (15.00)
II	1	24	29	31
	2	23	29	33
	3	24	32	30
	4	24	30	28
	5	24	30	27
	6	24	28	30
	7	24	30	32
III	1	22	30	32
	2	23	30	30
	3	24	30	30
	4	23	29	30
	5	24	30	30
	6	24	29	30
	7	24	28	30
IV	1	24	28	30
	2	22	29	30
	3	24	30	30
	4	24	28	32
	5	23	28	30
	6	22	28	28
	7	22	28	28
V	1	24	28	28.5
	2	24	29	27
	3	23	28	32
	4	22	28	32
	5	22	28	32
	6	23	28	31
	7	22	30	31
VI	1	24	28	30
	2	24	30	29
	3	26	27	28
	4	24	28	27
	5	25	30	27
	6	24	30	30
	7	24	30	30
VII	1	24	30	32
	2	27	30	30
	3	26	30	33
	4	27	31	34
	5	24	30	32
	6	24	30	34
	7	24	32	30

## Lampiran 07. Data Kelembaban Harian

Tabel 08. Data Kelembaban Harian (%)

MINGGU KE	HARI KE	PAGI (07.00)	SIANG (12.00)	SORE (15.00)
II	1	86	71	61
	2	88	66	54
	3	80	70	60
	4	80	61	65
	5	74	62	67
	6	80	65	57
	7	80	65	79
III	1	74	54	49
	2	76	53	54
	3	79	60	55
	4	80	55	55
	5	79	55	55
	6	79	58	57
	7	70	60	55
IV	1	75	62	51
	2	80	62	60
	3	80	45	49
	4	80	59	49
	5	76	62	54
	6	78	65	60
	7	78	58	60
V	1	68	58	55
	2	70	57	73
	3	75	50	40
	4	75	60	45
	5	77	57	45
	6	89	60	51
	7	85	60	55
VI	1	86	57	60
	2	82	74	73
	3	80	74	65
	4	80	66	72
	5	75	62	75
	6	86	65	62
	7	86	65	57
VII	1	85	75	60
	2	80	62	70
	3	80	60	52
	4	78	45	45
	5	76	45	48
	6	76	52	45
	7	80	40	45

**Lampiran 08. Deskripsi Mikroanatomi Hepar Ayam (Gallus sp) dengan  
Perlakuan Kontrol dengan Pewarnaan hematoxylin dan Eosin.**



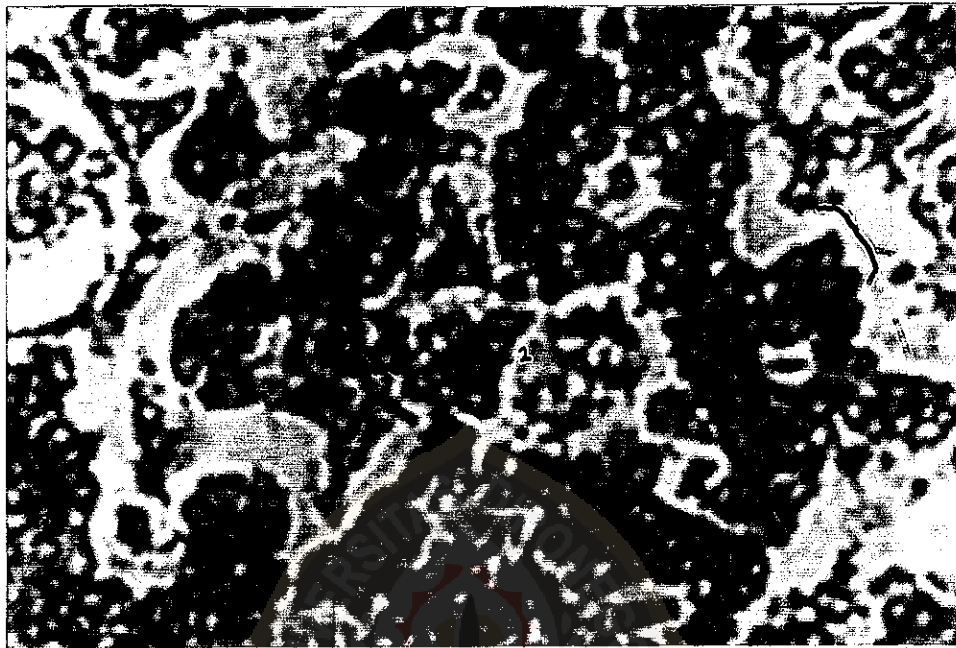
**Gambar 01. Penampang Melintang Mikroanatomi Hepar Ayam  
Tebal Irisan : 6  $\mu$  dan Perbesaran : 10x40**

**Keterangan : 1. Sel Hepatosit**

**2. Sinusoid**

**3. Nukleus**

**Lampiran 09. Deskripsi Mikroanatomi Hepar Ayam (*Gallus sp*) dengan  
Perlakuan Penambahan Limbah Padat Kumyit Kadar 5%  
dengan Pewarnaan hematoxylin dan Eosin.**



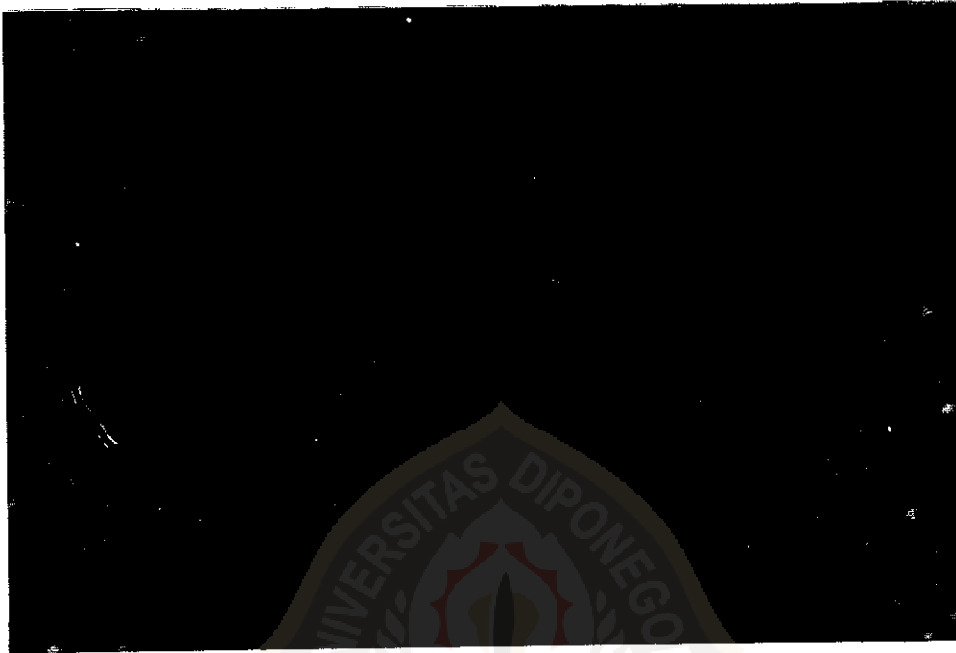
**Gambar 02. Penampang Melintang Mikroanatomi Hepar Ayam  
Tebal Irisan : 6  $\mu$  dan Perbesaran : 10x40**

**Keterangan : 1. Sel Hepatosit**

**2. Sinusoid**

**3. Nukleus**

**Lampiran 10. Deskripsi Mikroanatomi Hepar Ayam (*Gallus sp*) dengan Perlakuan Penambahan Limbah Padat Kunyit Kadar 10% dengan Pewarnaan hematoxylin dan Eosin.**



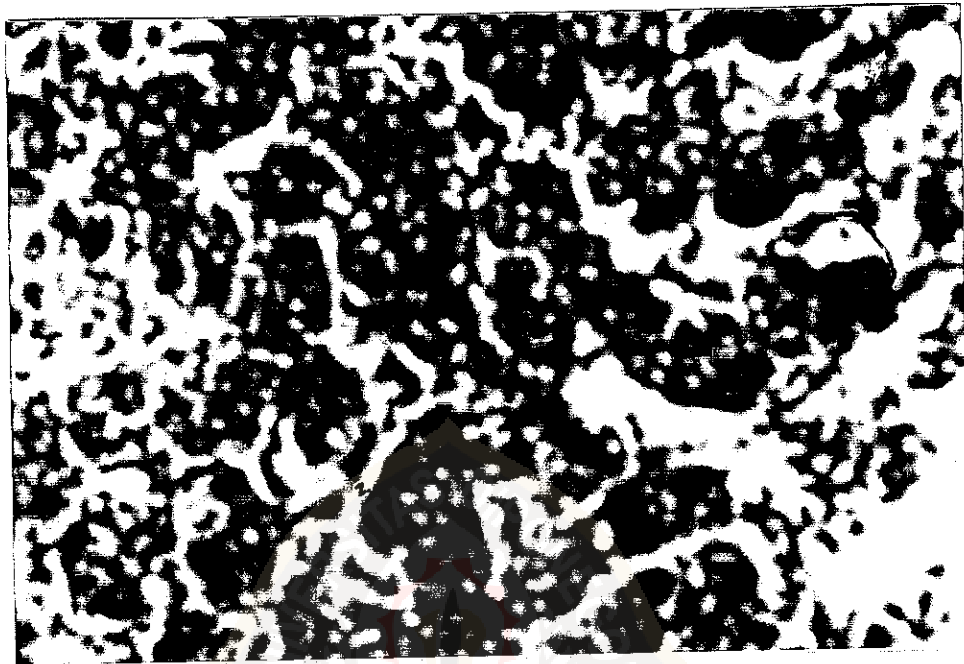
**Gambar 03. Penampang Melintang Mikroanatomi Hepar Ayam  
Tebal Irisan : 6  $\mu$  dan Perbesaran : 10x40**

**Keterangan : 1. Sel Hepatosit**

**2. Sinusoid**

**3. Nukleus**

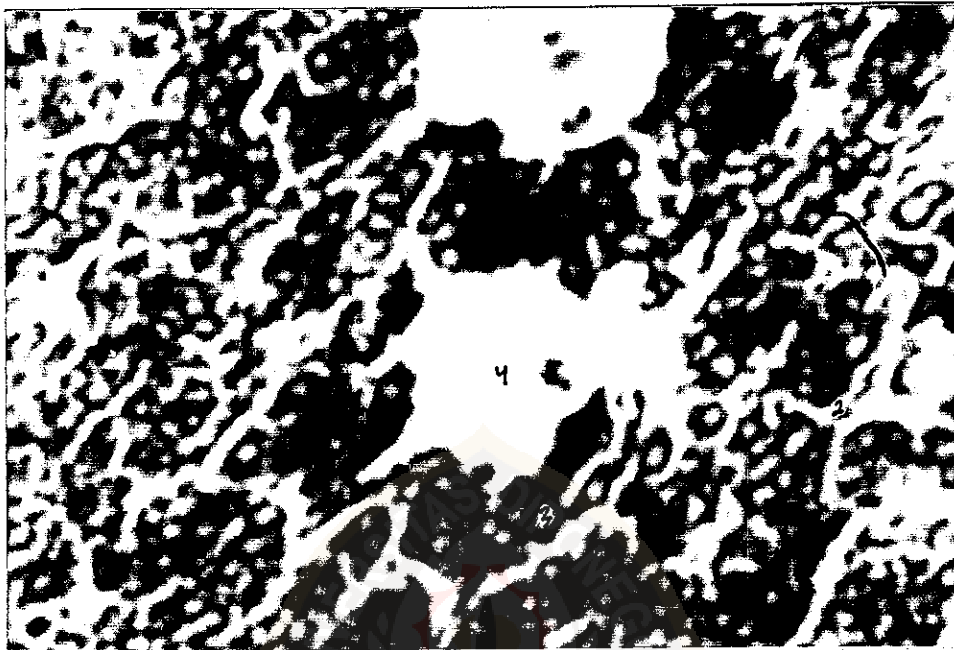
**Lampiran 11. Deskripsi Mikroanatomi Hepar Ayam (*Gallus sp*) dengan Perlakuan Penambahan Limbah Padat Kunyit Kadar 15% dengan Pewarnaan hematoxylin dan Eosin.**



**Gambar 04. Penampang Melintang Mikroanatomi Hepar Ayam  
Tebal Irisan : 6  $\mu$  dan Perbesaran : 10x40**

- Keterangan :**
- 1. Sel Hepatosit**
  - 2. Sinusoid**
  - 3. Nukleus**

**Lampiran 12. Deskripsi Mikroanatomi Hepar Ayam (*Gallus sp*) dengan Perlakuan Penambahan Limbah Padat kunyit Kadar 20% dengan Pewarnaan hematoxylin dan Eosin.**



**Gambar 05. Penampang Melintang Mikroanatomi Hepar Ayam  
Tebal Irisan : 6  $\mu$  dan Perbesaran : 10x40**

- Keterangan : 1. Sel Hepatosit**
- 2. Sinusoid**
  - 3. Nukleus**
  - 4. Vena Sentralis**