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Lampiran

Surat Izin



**FAKULTAS PEDAGOGI DAN PSIKOLOGI
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Kampus II : Jl. Dukuh Menanggal XII Telp. (031) 8281181, 8281182, 8281183 Surabaya 60234

Nomor : 300/Ak. I/FPP/I/2021
Lampiran : -
Perihal : Permohonan Izin Penelitian

Kepada Yth. Bapak/Ibu Kepala/Ketua
SSB JATI KENONGO
Desa Pepelegi, Kecamatan Waru, Kabupaten Sidoarjo
di Desa Pepelegi, Kecamatan Waru, Kabupaten Sidoarjo

Dengan hormat,

Sesuai dengan kurikulum Universitas PGRI Adi Buana Surabaya, untuk penyelesaian akhir masa studi, mahasiswa diwajibkan menulis skripsi. Berkaitan dengan ini, mohon dengan hormat Bapak/Ibu Kepala/Ketua SSB JATI KENONGO berkenan memberikan izin penelitian kepada mahasiswa:

Nama : AHMAD AFANDI
NIM : 175900155
Program Studi : Pendidikan Jasmani
Fakultas : Pedagogi dan Psikologi
Judul Penelitian : Penerapan Metode Latihan Zig-Zag Dalam Meningkatkan Dribbling Menggunakan kaki Bagian Dalam Dan Luar Pada Permainan Sepak Bola Di SSB Jatikenongo Sidoarjo

Demikian permohonan ini disampaikan, atas perhatian dan kerjasama diucapkan terima kasih.

Surabaya, 12 Januari 2021



Dr. Rintika Rentika Hadi., M.Kes.
NIP. 196702091992031002

Tembusan :

1. Wakil Dekan I
2. Kaprodi

Lampiran

Lembar Revisi Ujian Skripsi



FAKULTAS PEDAGOGI DAN PSIKOLOGI
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FORMAT REVISI UJIAN SKRIPSI


Nama Mahasiswa : AHMAD FAADI
NIM : 175900155
Program Studi : PENDIDIKAN JASMANI
Tanggal Ujian Skripsi : 17 FEBRUARI 2021
Judul Skripsi :

Nama Penguji I : ACHMAD NURYADI

No	Materi Revisi
1.	Penulisan / tata cara penulisan (menulis) harus sesuai dengan kaidah dan buku pedoman.
2.	
3.	

Batas waktu revisi skripsi: 2 (dua) minggu terhitung dari waktu ujian skripsi.

Dosen Penguji I,


(ACHMAD NURYADI)



FAKULTAS PEDAGOGI DAN PSIKOLOGI
UNIVERSITAS PGRI ADI BUANA SURABAYA

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FORMAT REVISI UJIAN SKRIPSI

Nama Mahasiswa : Ahmad Afandi
NIM : 175500155
Program Studi : Pendidikan Agama
Tanggal Ujian Skripsi : 17 Februari 2021
Judul Skripsi : Penerapan Metode Lahan Zis-Zis Dalam Menghentikan
Distribusi Nergamala Pada Gigitan Dan Ben Lusi
Nama Penguji II : Dr. Ujang Polwan, Mkes

No	Materi Revisi
1.	Rumusan hipotesis penelitian di latar belakang
2.	Penelitian tabel uji Homogenitas
3.	Daftar Pustaka sesuai kan dengan konsep atau kisi-kisi yg di tulis di skripsi Tulisn setiap Bab yang kausetkan.

Batas waktu revisi skripsi: 2 (dua) minggu terhitung dari waktu ujian skripsi.

Dosen Penguji II,



FAKULTAS PEDAGOGI DAN PSIKOLOGI
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Unipra Surabaya

FORMAT REVISI UJIAN SKRIPSI

Nama Mahasiswa : Ahmad Afandi
NIM : 175900155
Program Studi : Pendidikan Jasmani
Tanggal Ujian Skripsi :
Judul Skripsi :

Nama Penguji III :

No	Materi Revisi
1.	Abstrak Daftar Isi - Daftar pustaka
2. Bab I. Latar Belakang	- Lampiran 158
3. Tujuan penelitian Variabel.	- Mpo.
Bab II ① hlm 7	
② Penelitian Terdahulu	
③ Kerangka konseptual	
④ Hipotesis.	
Bab III. Sampel hlm 21 + Tabel 3.1 hlm 22	
hlm 25	
Bab IV. tabel 4.1 hlm 28	

Batas waktu revisi skripsi: 2 (dua) minggu terhitung dari waktu ujian skripsi.

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Dosen Penguji III

uji normasi 32

uji hipotesis 33 (Dr. R. K. S. dr. M. K. S.)

uji T. hlm 34

keuntungan penelitian. hlm 36

Bab V. hlm 40

Tabel distribusi t

TABEL II
NILAI-NILAI DALAM DISTRIBUSI t

α untuk uji dua fihak (two tail test)						
	0,50	0,20	0,10	0,05	0,02	0,01
α untuk uji satu fihak (one tail test)						
dk	0,25	0,10	0,05	0,025	0,01	0,005
1	1,000	3,078	6,314	12,706	31,821	63,657
2	0,816	1,886	2,920	4,303	6,965	9,925
3	0,765	1,638	2,353	3,182	4,541	5,841
4	0,741	1,533	2,132	2,776	3,747	4,604
5	0,727	1,476	2,015	2,571	3,365	4,032
6	0,718	1,440	1,943	2,447	3,143	3,707
7	0,711	1,415	1,895	2,365	2,998	3,499
8	0,706	1,397	1,860	2,306	2,896	3,355
9	0,703	1,383	1,833	2,262	2,821	3,250
10	0,700	1,372	1,812	2,228	2,764	3,169
11	0,697	1,363	1,796	2,201	2,718	3,106
12	0,695	1,356	1,782	2,179	2,681	3,055
13	0,692	1,350	1,771	2,160	2,650	3,012
14	0,691	1,345	1,761	2,145	2,624	2,977
15	0,690	1,341	1,753	2,131	2,602	2,947
16	0,689	1,337	1,746	2,120	2,583	2,921
17	0,688	1,333	1,740	2,110	2,567	2,898
18	0,688	1,330	1,734	2,101	2,552	2,878
19	0,687	1,328	1,729	2,093	2,539	2,861
20	0,687	1,325	1,725	2,086	2,528	2,845
21	0,686	1,323	1,721	2,080	2,518	2,831
22	0,686	1,321	1,717	2,074	2,508	2,819
23	0,685	1,319	1,714	2,069	2,500	2,807
24	0,685	1,318	1,711	2,064	2,492	2,797
25	0,684	1,316	1,708	2,060	2,485	2,787
26	0,684	1,315	1,706	2,056	2,479	2,779
27	0,684	1,314	1,703	2,052	2,473	2,771
28	0,683	1,313	1,701	2,048	2,467	2,763
29	0,683	1,311	1,699	2,045	2,462	2,756
30	0,683	1,310	1,697	2,042	2,457	2,750
40	0,681	1,303	1,684	2,021	2,423	2,704
60	0,679	1,296	1,671	2,000	2,390	2,660
120	0,677	1,289	1,658	1,980	2,358	2,617
∞	0,674	1,282	1,645	1,960	2,326	2,576

Lampiran 1

PERHITUNGAN UJI T SEJENIS (Eksperimen)

NO	NAMA	x1	X1 ²	X2	X2 ²	D	D ²
1.	AF	26,44	699,0736	22,33	498,6289	4,11	16,8921
2	ACH	27,03	730,6209	22,65	513,0225	4,38	19,1844
3.	AM	27,09	733,8681	23,14	535,4596	3,95	15,6025
4.	AL	26	676	23	529	3	9
5.	AZA	28,04	786,2416	25	625	3,04	9,2416
6.	BIL	28	784	24,09	580,3281	3,91	15,2881
7.	DAF	27,41	751,3081	24,53	601,7209	2,88	8,2944
8.	DEN	26,63	709,1569	23	529	3,63	13,1769
9.	DIA	27,43	752,4049	20,95	438,9025	6,48	41,9904
10.	DIS	26,55	704,9025	20,44	417,7936	6,11	37,3321
11.	DPS	27,13	736,0369	21,32	454,5424	5,81	33,7561
12.	FADI	26,45	699,6025	20	400	6,45	41,6025
13.	FED	27,86	776,1796	22,26	495,5076	5,6	31,36
14.	HAM	27,18	738,7524	22,86	522,5796	4,32	18,6624
15.	HIO	29,46	867,8916	24,89	619,5121	4,57	20,8849
16.	IDR	25,53	651,7809	19	361	6,53	42,6409
17.	JEF	26,48	701,1904	21,29	453,2641	5,19	26,9361
18.	MRH	27	729	22,75	517,5625	4,25	18,0625
19.	MAL	27,56	759,5536	22,76	518,0176	4,8	23,04
20.	MDS	28,11	790,1721	23,93	572,6449	4,18	17,4724
21.	MWH	26,64	709,6896	21,6	466,56	5,04	25,4016
22.	MR	25,55	652,8025	19,98	399,2004	5,57	31,0249
23.	MZS	27,16	737,6656	23,78	565,4884	3,38	11,4244
24.	DFD	26,28	690,6384	20,65	426,4225	5,63	31,6969
25.	SDD	27,46	754,0516	21,91	480,0481	5,55	30,8025
26.	MFD	28,04	786,2416	21,64	468,2896	6,4	40,96
27.	MRR	28,67	821,9689	21,1	445,21	7,57	57,3049
28.	MAD	27	729	20,46	418,6116	6,54	42,7716
29.	MAR	26,75	715,5625	19,44	377,9136	7,31	53,4361

30.	GRR	27,03	730,6209	19,27	371,3329	7,76	60,2176
JUMLAH		813,96	22105,9782	660,02	14602,56	153,94	845,4608

Keterangan :

X1 = Hasil Pre test

X2 = Hasil Post test

D = Beda nilai Pre test dan Post test

Lampiran 2

PENGHITUNGAN UJI T SEJENIS (Kontrol)

NO	NAMA	X1	X1 ²	X2	X2 ²	D	D2
1	SAF	27,54	758,4516	27,54	758,4516	0	0
2	AFN	28,42	807,6964	28,94	837,5236	-0,52	0,2704
3	AKFP	27,43	752,4049	28,14	791,8596	-0,71	0,5041
4	AND	26	676	26,6	707,56	-0,6	0,36
5	ADI	28,04	786,2416	28,07	787,9249	-0,03	0,0009
6	AFM	28	784	29,09	846,2281	-1,09	1,1881
7	BAS	27,41	751,3081	27,64	763,9696	-0,23	0,0529
8	DFU	26,63	709,1569	26,87	721,9969	-0,24	0,0576
9	DA	27,43	752,4049	28,95	838,1025	-1,52	2,3104
10	DF	26,55	704,9025	26,55	704,9025	0	0
11	DIC	27,13	736,0369	28	784	-0,87	0,7569
12	ALT	26,45	699,6025	27,28	744,1984	-0,83	0,6889
13	GIA	27,86	776,1796	27,98	782,8804	-0,12	0,0144
14	JAS	27,18	738,7524	27,86	776,1796	-0,68	0,4624
15	KIA	29,46	867,8916	29,89	893,4121	-0,43	0,1849
16	MA	25,53	651,7809	25,76	663,5776	-0,23	0,0529
17	FAH	26,48	701,1904	26,76	716,0976	-0,28	0,0784
18	MID	27	729	27,75	770,0625	-0,75	0,5625
19	MAN	27,56	759,5536	27,76	770,6176	-0,2	0,04
20	MRA	28,11	790,1721	28,93	836,9449	-0,82	0,6724
21	MDI	26,64	709,6896	26,69	712,3561	-0,05	0,0025
22	MUR	25,55	652,8025	25,55	652,8025	0	0
23	SFA	27,16	737,6656	27,78	771,7284	-0,62	0,3844
24	NAN	26,28	690,6384	26,65	710,2225	-0,37	0,1369
25	RAR	27,46	754,0516	27,91	778,9681	-0,45	0,2025
26	RAF	28,04	786,2416	28,64	820,2496	-0,6	0,36
27	REF	28,67	821,9689	28,77	827,7129	-0,1	0,01
28	REY	27	729	27,46	754,0516	-0,46	0,2116

29	RIA	26,75	715,5625	26,44	699,0736	0,31	0,0961
30	RFY	27,03	730,6209	27,27	743,6529	-0,24	0,0576
JUMLAH		816,79	22260,97	829,52	22967,31	-	12,73
							9,7197

Keterangan :

X1 = Hasil Pre test

X2 = Hasil Post test

D = Beda nilai Pre test dan Post test

Lampiran 3

UJI BEDA RATA-RATA ANTARA KELOMPOK EKSPERIMEN DENGAN KELOMPOK KONTROL

NO	X1	X1 ²	X2	X2 ²	D	D2
1	27,54	758,4516	22,33	498,6289	-5,21	27,1441
2	28,94	837,5236	22,65	513,0225	-6,29	39,5641
3	28,14	791,8596	23,14	535,4596	-5	25
4	26,6	707,56	23	529	-3,6	12,96
5	28,07	787,9249	25	625	-3,07	9,4249
6	29,09	846,2281	24,09	580,3281	-5	25
7	27,64	763,9696	24,53	601,7209	-3,11	9,6721
8	26,87	721,9969	23	529	-3,87	14,9769
9	28,95	838,1025	20,95	438,9025	-8	64
10	26,55	704,9025	20,44	417,7936	-6,11	37,3321
11	28	784	21,32	454,5424	-6,68	44,6224
12	27,28	744,1984	20	400	-7,28	52,9984
13	27,98	782,8804	22,26	495,5076	-5,72	32,7184
14	27,86	776,1796	22,86	522,5796	-5	25
15	29,89	893,4121	24,89	619,5121	-5	25
16	25,76	663,5776	19	361	-6,76	45,6976
17	26,76	716,0976	21,29	453,2641	-5,47	29,9209
18	27,75	770,0625	22,75	517,5625	-5	25
19	27,76	770,6176	22,76	518,0176	-5	25
20	28,93	836,9449	23,93	572,6449	-5	25
21	26,69	712,3561	21,6	466,56	-5,09	25,9081
22	25,55	652,8025	19,98	399,2004	-5,57	31,0249
23	27,78	771,7284	23,78	565,4884	-4	16
24	26,65	710,2225	20,65	426,4225	-6	36
25	27,91	778,9681	21,91	480,0481	-6	36
26	28,64	820,2496	21,64	468,2896	-7	49

27	28,77	827,7129	21,1	445,21	-7,67	58,8289
28	27,46	754,0516	20,46	418,6116	-7	49
29	26,44	699,0736	19,44	377,9136	-7	49
30	27,27	743,6529	19,27	371,3329	-8	64
JUMLAH	829,52	22967,31	660,02	14602,56	-169,5	1010,794
RATA	27,65067	765,5769	22,00067	486,7521	-5,65	33,69313

PENGHITUNGAN MANUAL

1. KELOMPOK EKSPERIMEN

A. PRE-TEST

- 1) Rata-rata

$$M = \frac{\sum X}{N}$$

$$M = x = \frac{813,96}{30}$$

$$M = 27,132$$

- 2) Standard Deviasi

$$S = \frac{\sqrt{N\sum X^2 - (\sum X)^2}}{n(n-1)}$$

$$S = \frac{\sqrt{30 \cdot 22105,97829 - (813,96)^2}}{30(30-1)}$$

$$S = \frac{\sqrt{663179,345 - 662530,882}}{30,29}$$

$$S = \frac{\sqrt{648,463}}{870}$$

$$S = \sqrt{0,745}$$

$$S = 0,863$$

- 3) Varian Populasi

$$S = \frac{N\sum X^2 - (\sum X)^2}{n - (n-1)}$$

$$S = \frac{30 \cdot 22105,97829 - (813,96)^2}{30 - (30-1)}$$

$$S = \frac{663179,346 - 662530,882}{30,29}$$

$$S = \frac{648,464}{870}$$

$$S = 0,745$$

B. POST TEST

1) Rata-rata

$$M = \frac{\sum X}{N}$$

$$M = \frac{660,02}{30}$$

$$M = 22,000$$

2) Standard deviasi

$$S = \frac{\sqrt{N\sum X^2 - (\sum X)^2}}{n(n-1)}$$

$$S = \frac{\sqrt{30 \cdot 14602,56 - (660,02)^2}}{30(29-1)}$$

$$S = \frac{\sqrt{438076,8 - 435626,4}}{30 \cdot 29}$$

$$S = \frac{\sqrt{2450,4}}{870}$$

$$S = \sqrt{2,81}$$

$$S = 1,67$$

3) Varian

$$S = \frac{N\sum X^2 - (\sum X)^2}{n - (n-1)}$$

$$S = \frac{30 \cdot 14602,6 - (660,02)^2}{30 - (30-1)}$$

$$S = \frac{438078 - 435626,4}{30 \cdot 29}$$

$$S = \frac{2451,6}{870}$$

$$S = 2,81$$

C. NILAI BEDA

1) Rata-rata

$$\begin{aligned}M &= \frac{\sum D}{N} \\&= \frac{153,94}{30} \\&= 5,131\end{aligned}$$

2) Standard deviasi

$$\begin{aligned}S &= \frac{\sqrt{N \sum D^2 - (\sum D)^2}}{n(n-1)} \\S &= \frac{\sqrt{30 \cdot 845,4608 - (153,94)^2}}{30(30-1)}\end{aligned}$$

$$S = \frac{\sqrt{25363,824 - 23697,524}}{30.29}$$

$$S = \frac{\sqrt{1666,3}}{870}$$

$$\begin{aligned}S &= \sqrt{1,915} \\S &= 1,38\end{aligned}$$

3) Varian

$$\begin{aligned}S &= \frac{N \sum D^2 - (\sum D)^2}{n - (n-1)} \\S &= \frac{30 \cdot 845,4608 - (153,94)^2}{30 - (30-1)} \\S &= \frac{25363,824 - 23697,524}{30.29}\end{aligned}$$

$$\begin{aligned}S &= \frac{1666,3}{870} \\S &= 1,915\end{aligned}$$

4) PRESENTASE PENINGKATAN

$$p = \frac{MD}{M_{pre}} \times 100\%$$

$$= \frac{5,131}{27,132} \times 100\% \\ = 18,9\%$$

2. KELOMPOK KONTROL

A. PRETEST

1) Rata-rata

$$M = \frac{\sum X}{N} \\ M = \frac{829,52}{30} \\ M = 27,65$$

2) Standard Deviasi

$$S = \frac{\sqrt{N\sum X^2 - (\sum X)^2}}{n(n-1)} \\ S = \frac{\sqrt{30 \cdot 22260,97 - 816,79^2}}{30(30-1)} \\ S = \frac{\sqrt{667829,1 - 667145,904}}{30,29} \\ S = \frac{\sqrt{683,196}}{870} \\ S = \sqrt{0,785} \\ S = 0,886$$

3) Varian

$$S = \frac{N\sum X - (\sum X)^2}{n - (n-1)} \\ S = \frac{30 \cdot 22260,97 - (816,79)^2}{30 - (30-1)} \\ S = \frac{667.829,1 - 667145,904}{30.29}$$

$$S = \frac{683,196}{870}$$

$$S = 0,785$$

B. POST TEST

1) Rata-rata

$$M = \frac{\sum X}{N}$$

$$M = \frac{829,52}{30}$$

$$M = 27,65$$

2) Standard deviasi

$$S = \frac{\sqrt{N\sum X_1^2 - (\sum X)^2}}{n(n-1)}$$

$$S = \frac{\sqrt{30.22967,31 - (829,53)^2}}{30(30-1)}$$

$$S = \frac{\sqrt{689019,31 - 688120,021}}{30.29}$$

$$S = \frac{\sqrt{899,289}}{870}$$

$$S = \sqrt{1,033}$$

$$S = 1,025$$

3) Varian

$$S = \frac{N\sum X_1 - (\sum X_1)^2}{n-(n-1)}$$

$$S = \frac{30.22967,3 - 829,52}{30 - (30-1)}$$

$$S = \frac{689,019 - 688,103,43}{30.29}$$

$$S = \frac{91557}{870}$$

$$S = 1,053$$

C. NILAI BEDA

1) Rata-rata

$$\begin{aligned}M &= \frac{\sum D}{N} \\&= \frac{12,73}{30} \\&= 0,43\end{aligned}$$

2) Standard deviasi

$$\begin{aligned}S &= \frac{\sqrt{N\sum D^2 - (\sum D)^2}}{n(n-1)} \\S &= \frac{\sqrt{30 \cdot 9,7197 - (12,73)^2}}{30(30-1)}\end{aligned}$$

$$S = \frac{\sqrt{291,591 - 162,0529}}{30 \cdot 29}$$

$$S = \frac{\sqrt{129,5381}}{870}$$

$$S = \sqrt{0,149}$$

$$S = 12,20$$

3) Varian

$$\begin{aligned}S &= \frac{N\sum D^2 - (\sum D)^2}{n - (n-1)} \\S &= \frac{30 \cdot 89,7197 - (12,73)^2}{30 - (30-1)}\end{aligned}$$

$$S = \frac{291,591 - 162,0529}{30 \cdot 29}$$

$$S = \frac{129,5381}{870}$$

$$S = 0,149$$

4) Presentase peningkata

$$\begin{aligned} p &= \frac{MD}{M_{pre}} \times 100\% \\ &= \frac{0,43}{27,65} \times 100\% \\ &= 1,59\% \end{aligned}$$

Lampiran 5
 HASIL PERHITUNGAN MENGGUNAKAN SPSS FOR
 WINDOWS 21,0
 A. EXPERMENT

Means

Notes

Output Created		12-FEB-2021 19:39:20
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.

Syntax	MEANS TABLES=Pretest Posttest /CELLS MEAN COUNT STDDEV.
Processor Time	00:00:00,00
Resources	00:00:00,02
Elapsed Time	

	N	Range	Minimum	Maximum	Mean	Std. Deviation	Varian ce
Pretest	30	3,93	25,53	29,46	27,1320	,86334	,745
Posttest	30	6,00	19,00	25,00	22,0007	1,67830	2,817
Valid N (listwise)	30						

Uji Kenormalan data

One-Sample Statistics

	N	Mean	Std. Deviati on	Std. Error Mean
Pretest	30	27,13	,863	,158
Posttest	30	22,000 7	1,67830	,30641

One-Sample Test

	Test Value = 0				
	T	df	Sig. (2- tailed)	Mean Difference	95% Confidence Interval of the Difference
					Lower Upper

Pretest	172,131	29	,000	27,132	26,81	27,45
Posttest	71,800	29	,000	22,00067	21,3740	22,6274

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		Pretest	Posttest
N		30	30
Normal Parameters ^{a,b}	Mean	27,13	22,0007
	Std. Deviation	,863	1,67830
	Most Extreme Differences		
	Absolute	,111	,084
	Positive	,111	,057
	Negative	-,078	-,084
Kolmogorov-Smirnov Z		,609	,460
Asymp. Sig. (2-tailed)		,852	,984

a. Test distribution is Normal.

b. Calculated from data.

UJI BEDA DATA

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pretest	27,13	30	,863	,158
	Posttest	22,0007	30	1,67830	,30641

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Pretest & Posttest	30	,568	,001

Paired Samples Test

	Paired Differences			
	Mean	Std. Deviation	Std. Error Mean	95% Confidence ...
				Lower
Pair 1 Pretest - Posttest	5,13133	1,38394	,25267	4,61456

Paired Samples Test

	Paired ...	t	df	Sig. (2-tailed)
	95% Confidence ...			
	Upper			
Pair 1 Pretest - Posttest	5,64810	20,308	29	,000

Lampiran 5
B. KONTROL

T-Test

Notes

Output Created		12-FEB-2021 20:28:17
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST /TESTVAL=0 /MISSING=ANALYSIS /VARIABLES=Pretest Posttest /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,02

Descriptive Statistics

	N	Range	Minimum	Maximum	Mean	Std. Deviation	Variance
pretest	30	3,93	25,53	29,46	27,2263	,88613	,785
posttest	30	4,34	25,55	29,89	27,6507	1,02599	1,053
Valid N (listwise)	30						

Uji kenormalan data

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Pretest	30	27,2263	,88613	,16178
Posttest	30	27,6507	1,02599	,18732

Lampiran 5

One-Sample Kolmogorov-Smirnov Test

One-Sample Test

	Test Value = 0					
	T	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
Pretest	168,287	29	,000	27,22633	26,8954	27,5572
Posttest	147,612	29	,000	27,65067	27,2676	28,0338

		Pretest	Posttest
N		30	30
Normal Parameters ^{a,b}	Mean	27,2263	27,6507
	Std. Deviation	,88613	1,02599
	Absolute	,087	,083
Most Extreme Differences	Positive	,087	,083
	Negative	-,066	-,072
Kolmogorov-Smirnov Z		,474	,457
Asymp. Sig. (2-tailed)		,978	,985

a. Test distribution is Normal.

b. Calculated from data.

Uji beda data

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pretest	27,2263	30	,88613	,16178
	Posttest	27,6507	30	1,02599	,18732

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Pretest & Posttest	30	,929	,000

Lampiran 5 (Lanjutan)

Uji T Dua sampel

Warning # 849 in column 23. Text: in_ID
The LOCALE subcommand of the SET command has an invalid parameter. It could not be mapped to a valid backend locale.

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower				Upper
Pair 1	Pretest – Posttest	-,42433	,38587	,07045	-,56842	-,28025	-6,023	29	,000

T-TEST GROUPS=Kelompok(1 2)
/MISSING=ANALYSIS
/VARIABLES=hasil
/CRITERIA=CI(.95).

T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
Pretest	kelompok experiment	30	27,132	,8633	,1576
	kelompok kontrol	30	27,226	,8861	,1618

Posttest	kelompok experiment	30	22,001	1,6783	,3064
st	kelompok kontrol	30	27,651	1,0260	,1873

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Pretest	Equal variances assumed	,077	,782	-,418	58	,678	-,0943	,2259	-,5465	-,3578
	Equal variances not assumed			-,418	57,961	,678	-,0943	,2259	-,5465	-,3578
Posttest	Equal variances assumed	8,957	,004	-,15732	58	,000	-5,6500	,3591	-,63689	-,49311

	Equal variances not assumed			- 15,7 32	48,02 0	,000	-5,6500	,3591	- 6,37 21	- 4,92 79
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Lampiran 6
Foto Penelitian



Pengambilan data *Pretest*



Penerapan *Treatment*



Pengambilan data *Posttest*