



Lampiran 01. Dokumentasi penelitian uji *impact*



Gambar pembuatan spesimen untuk uji *impact*



Pengujian *Impact* Dan Pengambilan Data Di Lab Teknik Mesin Universitas Udayana



Mengambil Gambar Pola Patahan Dengan Mikroskop

Lampiran 02. Hasil dari pengujian *impact*

a. Orientasi Spesimen Serat Bambu 16%:24% Serat Pandan Bali



24,3 N.m



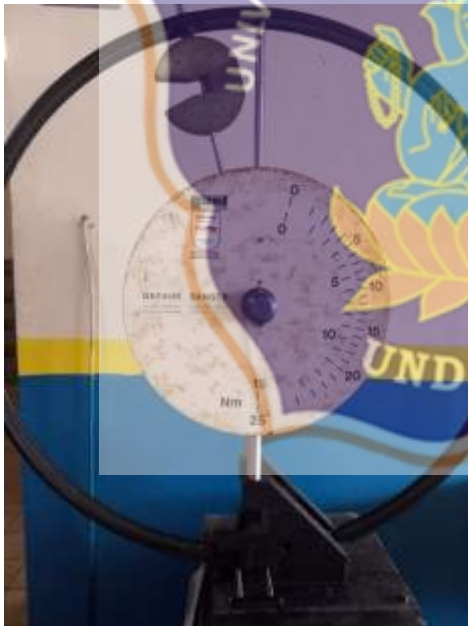
25 N.m



24,5 N.m



24,5 N.m



25 N.m



24,6 N.m



24,5 N.m



25 N.m



24,1 N.m



24,5 N.m



Bentuk patahan setelah uji *impact*

b. Orientasi Spesimen Serat Bambu 20%:20% Serat Pandan Bali



14,8 N.m

14,5 N.m



14,5 N.m



14,6 N.m



15 N.m



14,9 N.m



14,5 N.m



15.1 N.m



14,3 N.m

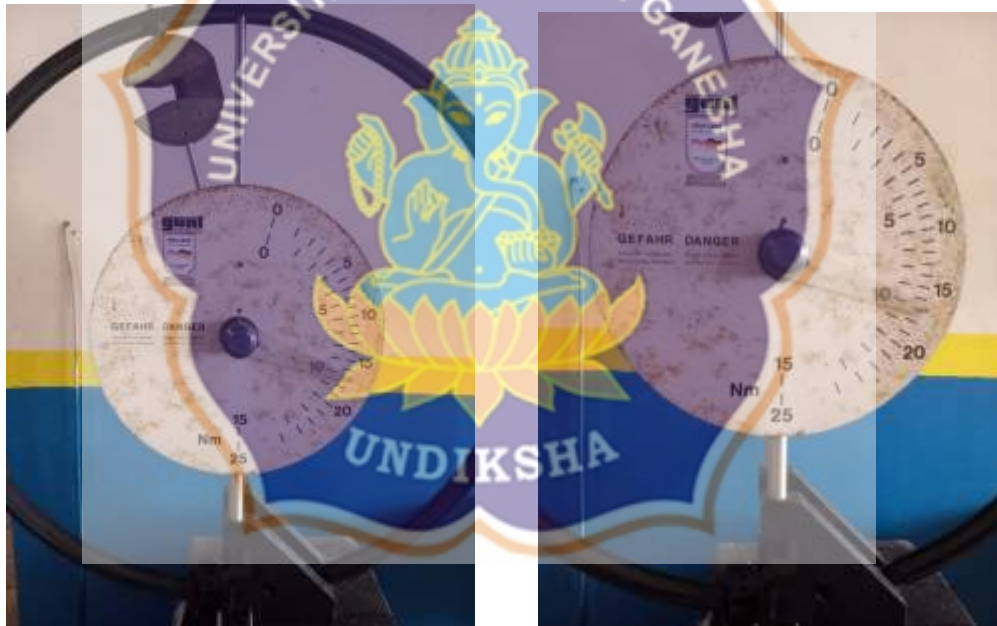


14,5 N.m



Bentuk patahan setelah uji *impact*

c. Orientasi Spesimen Serat Bambu 24%:16% Serat Pandan Bali



17,5 N.m

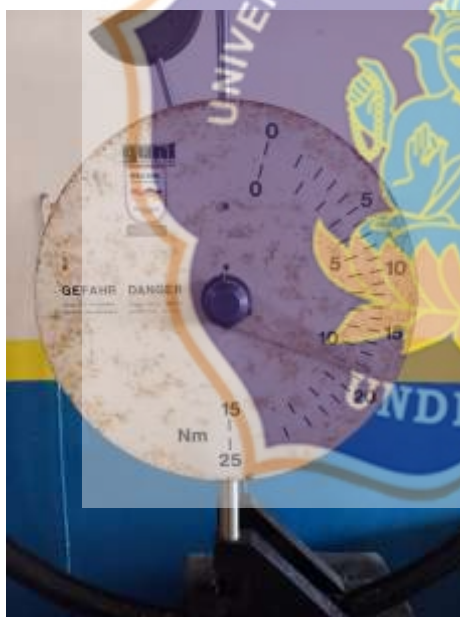
17,7 N.m



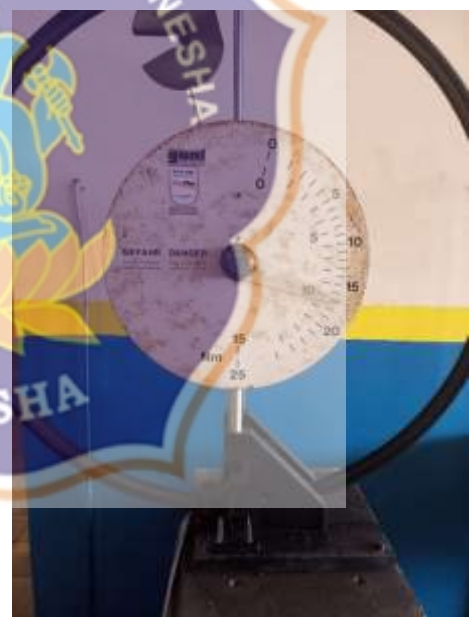
17,2 N.m



17,5 N.m



17 N.m



17,2 N.m



17,5 N.m



17,7 N.m



16,8, N.m



17 N.m



Bentuk patahan setelah uji *impact*

Lampiran.03 uji normalitas menggunakan SPSS

ANOVA

UJI IMPACT	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	43.191	2	21.596	3.016E3	.000
Within Groups	.193	27	.007		
Total	43.385	29			

Test of Homogeneity of Variances

UJI IMPACT

Levene Statistic	df1	df2	Sig.
.269	2	27	.766

Descriptives

		Statistic	Std. Error
SAMPEL_A1	Mean	4.6596	.02840
	95% Confidence Interval for Mean	Lower Bound 4.5954	
		Upper Bound 4.7238	
	5% Trimmed Mean	4.6615	
	Median	4.6710	

Test of Homogeneity of Variances

UJI IMPACT

Levene Statistic	df1	df2	Sig.
Variance			.008
Std. Deviation			.08981
Minimum			4.51
Maximum			4.77
Range			.26
Interquartile Range			.16
Skewness			-.248
Kurtosis			1.334
SAMPEL_A2	Mean		3.9054
	95% Confidence Interval for Lower Bound		3.8518
	Mean Upper Bound		3.9590
	5% Trimmed Mean		3.9044
	Median		3.8710
	Variance		.006
	Std. Deviation		.07492
	Minimum		3.80
	Maximum		4.03
	Range		.23
	Interquartile Range		.12
	Skewness		.458
	Kurtosis		-1.071
SAMPEL_A3	Mean		6.7426
	95% Confidence Interval for Lower Bound		6.6794
	Mean Upper Bound		6.8058
	5% Trimmed Mean		6.7442
	Median		6.7140
	Variance		.008
	Std. Deviation		.08832
	Minimum		6.60

Test of Homogeneity of Variances

UJI IMPACT

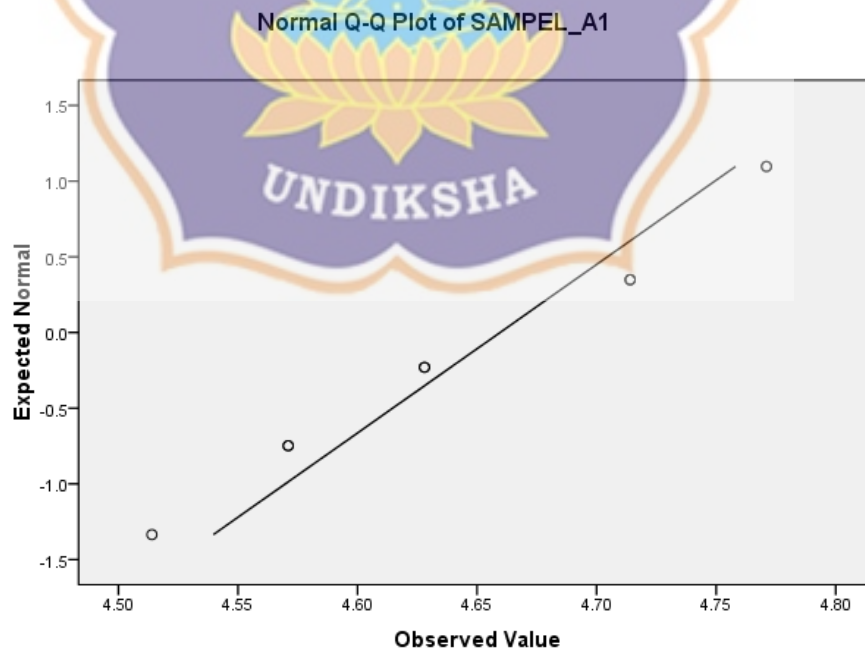
Levene Statistic	df1	df2	Sig.
Maximum		6.86	
Range		.26	
Interquartile Range		.16	
Skewness		.176	.687
Kurtosis		-.810	1.334

KEKUATAN_IMPACT

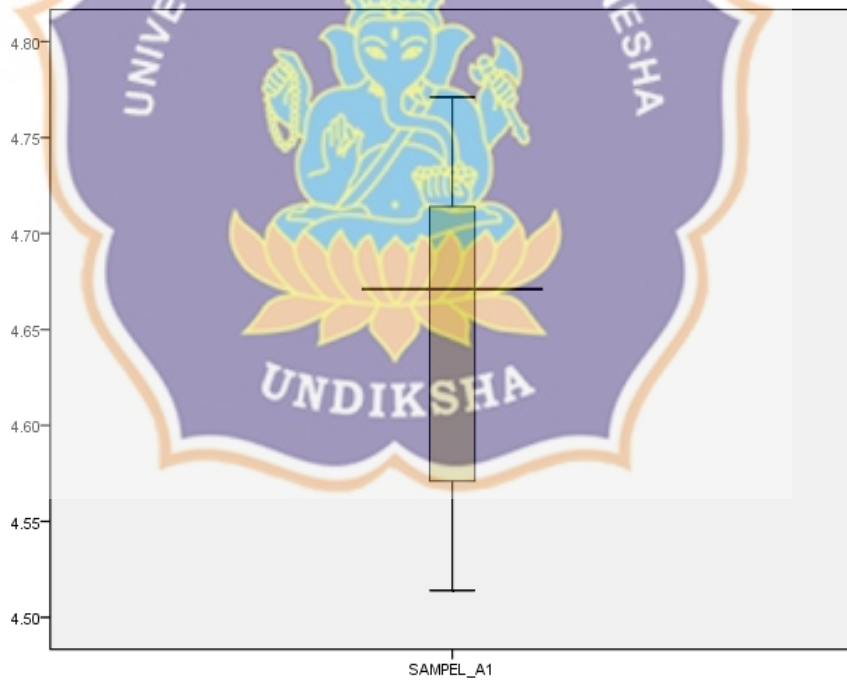
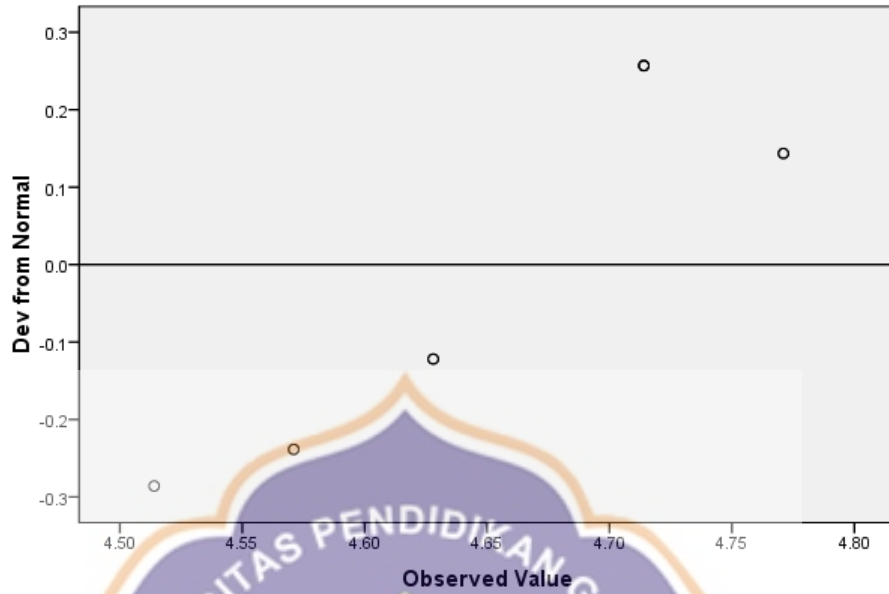
SAMPEL_A1 Stem-and-Leaf Plot

Frequency	Stem & Leaf
1,00	45 . 1
2,00	45 . 77
2,00	46 . 22
,00	46 .
3,00	47 . 111
2,00	47 . 77

Stem width: .10
Each leaf: 1 case(s)



Detrended Normal Q-Q Plot of SAMPEL_A1

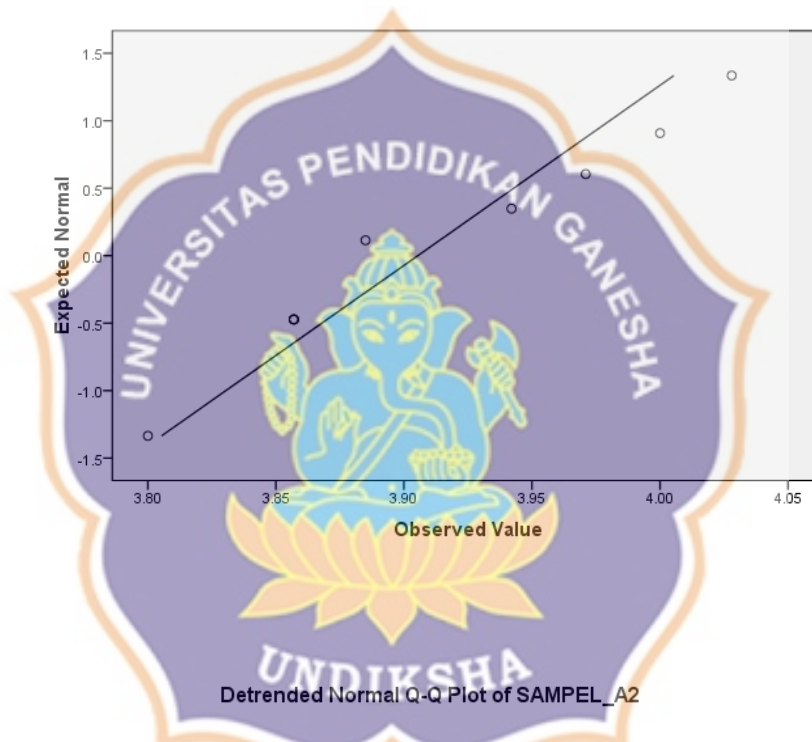


SAMPEL_A2 Stem-and-Leaf Plot

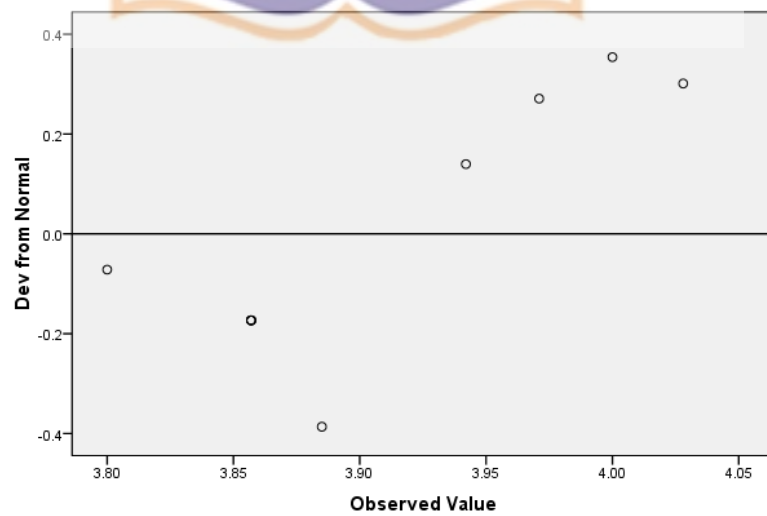
Frequency	Stem & Leaf
1,00	38 . 0
5,00	38 . 55558
1,00	39 . 4
1,00	39 . 7
2,00	40 . 02

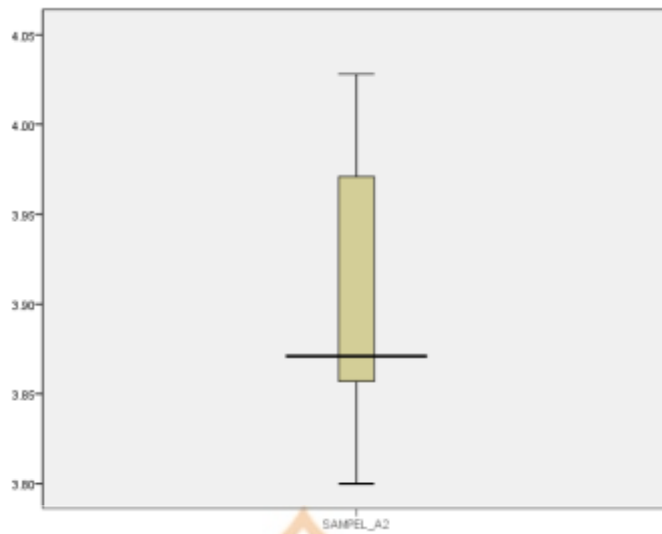
Stem width: ,10
Each leaf: 1 case(s)

Normal Q-Q Plot of SAMPEL_A2



Detrended Normal Q-Q Plot of SAMPEL_A2

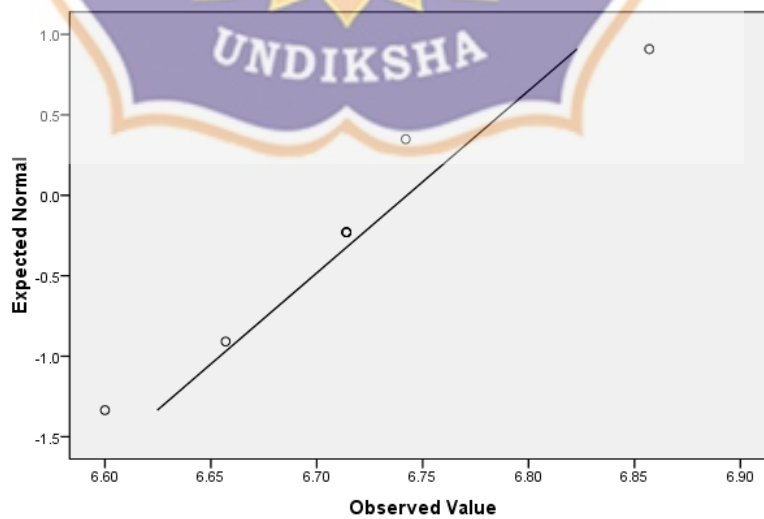


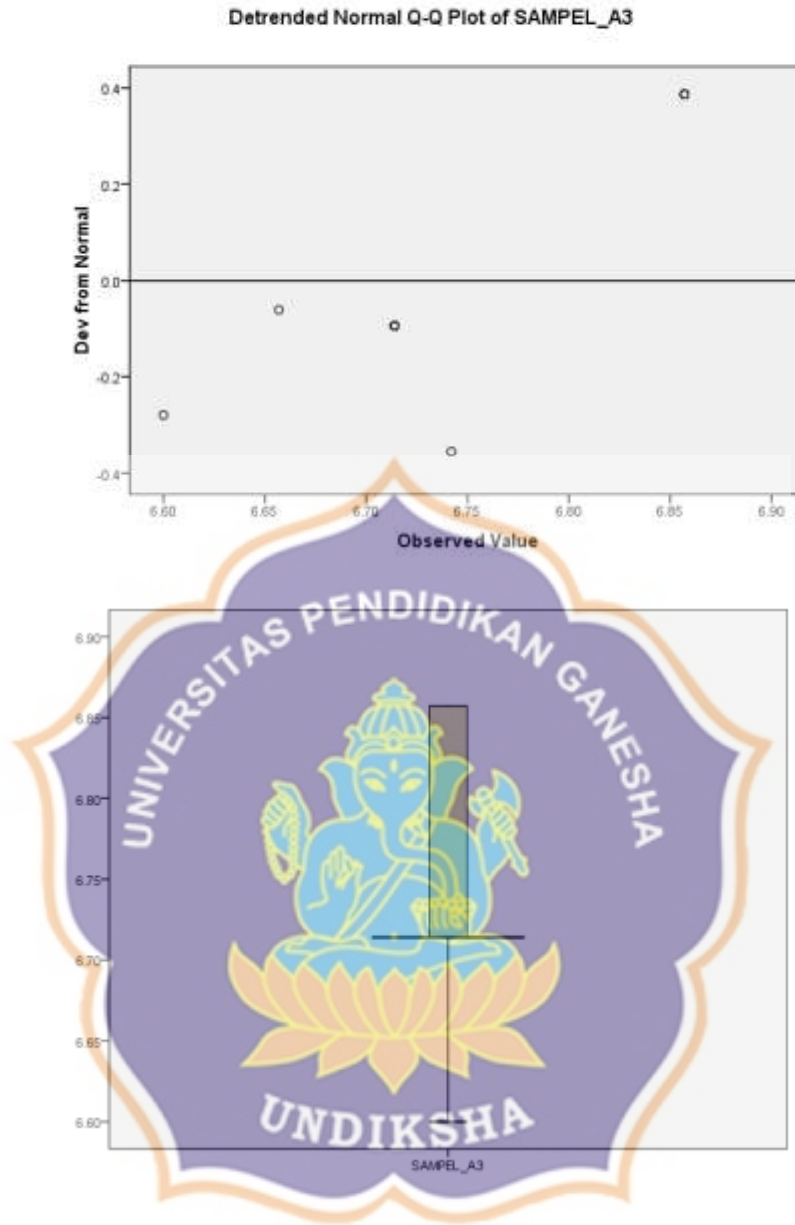


SAMPEL_A3 Stem-and-Leaf Plot

Frequency	Stem & Leaf
1,00	66 . 0
1,00	66 . 5
5,00	67 . 11114
,00	67 .
,00	68 .
3,00	68 . 555

Stem width: ,10
Each leaf: 1 case(s)





Lampiran 04. Uji Homogenitas Menggunakan SPSS

Test of Homogeneity of Variances

UJI IMPACT

Levene Statistic	df1	df2	Sig.
.269	2	27	.766

ANOVA

UJI IMPACT					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	43.191	2	21.596	3.016E3	.000
Within Groups	.193	27	.007		
Total	43.385	29			

ONEWAY uji_impact BY spesimen
 /STATISTICS DESCRIPTIVES HOMOGENEITY
 /MISSING ANALYSIS.

Oneway

Descriptives

uji_impact

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	10	4.6596	.08981	.02840	4.5954	4.7238	4.51	4.77
2	10	3.9054	.07492	.02369	3.8518	3.9590	3.80	4.03
3	10	6.7426	.08832	.02793	6.6794	6.8058	6.60	6.86
Total	30	5.1025	1.22312	.22331	4.6458	5.5593	3.80	6.86

Test of Homogeneity of Variances

uji_impact

Levene Statistic	df1	df2	Sig.
.269	2	27	.766

ANOVA

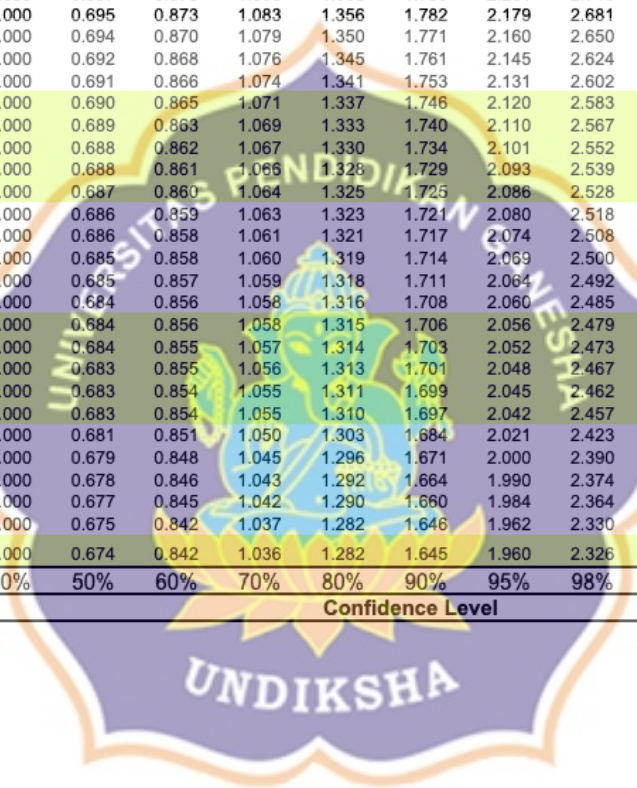
uji_impact					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	43.191	2	21.596	3.016E3	.000
Within Groups	.193	27	.007		
Total	43.385	29			

Lampiran 05. F Tabel

Titik Persentase Distribusi F untuk Probabilita = 0,05																
df untuk penyebut (N2)	df untuk pembilang (N1)															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	161	199	216	225	230	234	237	239	241	242	243	244	245	245	246	
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40	19.40	19.41	19.41	19.42	19.42	19.43
3	10.13	9.55	9.28	9.12	9.01	8.94	8.88	8.85	8.81	8.79	8.76	8.74	8.73	8.71	8.70	8.70
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.94	5.91	5.89	5.87	5.86	5.86
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.70	4.68	4.66	4.64	4.62	4.62
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.03	4.00	3.98	3.96	3.94	3.94
7	5.59	4.74	4.36	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.60	3.57	3.55	3.53	3.51	3.51
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.31	3.28	3.26	3.24	3.22	3.22
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.10	3.07	3.05	3.03	3.01	3.01
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98	2.94	2.91	2.89	2.86	2.85	2.85
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.82	2.79	2.76	2.74	2.72	2.72
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.72	2.69	2.66	2.64	2.62	2.62
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67	2.63	2.60	2.58	2.55	2.53	2.53
14	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60	2.57	2.53	2.51	2.48	2.46	2.46
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.51	2.48	2.45	2.42	2.40	2.40
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.46	2.42	2.40	2.37	2.35	2.35
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45	2.41	2.38	2.35	2.33	2.31	2.31
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.37	2.34	2.31	2.29	2.27	2.27
19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38	2.34	2.31	2.28	2.26	2.23	2.23
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.31	2.28	2.25	2.22	2.20	2.20
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37	2.32	2.28	2.25	2.22	2.20	2.18	2.18
22	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34	2.30	2.26	2.23	2.20	2.17	2.15	2.15
23	4.28	3.42	3.03	2.80	2.64	2.53	2.44	2.37	2.32	2.27	2.24	2.20	2.18	2.15	2.13	2.13
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25	2.22	2.18	2.15	2.13	2.11	2.11
25	4.24	3.39	2.99	2.76	2.61	2.49	2.40	2.34	2.28	2.24	2.20	2.16	2.14	2.11	2.09	2.09
26	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27	2.22	2.18	2.15	2.12	2.09	2.07	2.07
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25	2.20	2.17	2.13	2.10	2.08	2.06	2.06
28	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24	2.19	2.15	2.12	2.09	2.06	2.04	2.04
29	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.28	2.22	2.18	2.14	2.10	2.08	2.05	2.03	2.03
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21	2.16	2.13	2.09	2.06	2.04	2.01	2.01
31	4.16	3.30	2.91	2.68	2.52	2.41	2.32	2.25	2.20	2.15	2.11	2.08	2.05	2.03	2.00	2.00
32	4.15	3.29	2.90	2.67	2.51	2.40	2.31	2.24	2.19	2.14	2.10	2.07	2.04	2.01	1.99	1.99
33	4.14	3.28	2.89	2.66	2.50	2.39	2.30	2.23	2.18	2.13	2.09	2.06	2.03	2.00	1.98	1.98
34	4.13	3.28	2.88	2.65	2.49	2.38	2.29	2.23	2.17	2.12	2.08	2.05	2.02	1.99	1.97	1.97
35	4.12	3.27	2.87	2.64	2.48	2.37	2.29	2.22	2.16	2.11	2.07	2.04	2.01	1.99	1.96	1.96
36	4.11	3.26	2.87	2.63	2.48	2.36	2.28	2.21	2.15	2.11	2.07	2.03	2.00	1.98	1.95	1.95
37	4.11	3.25	2.86	2.63	2.47	2.36	2.27	2.20	2.14	2.10	2.06	2.02	2.00	1.97	1.95	1.95
38	4.10	3.24	2.85	2.62	2.46	2.35	2.26	2.19	2.14	2.09	2.05	2.02	1.99	1.96	1.94	1.94
39	4.09	3.24	2.85	2.61	2.46	2.34	2.26	2.19	2.13	2.08	2.04	2.01	1.98	1.95	1.93	1.93
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.08	2.04	2.00	1.97	1.95	1.92	1.92
41	4.08	3.23	2.83	2.60	2.44	2.33	2.24	2.17	2.12	2.07	2.03	2.00	1.97	1.94	1.92	1.92
42	4.07	3.22	2.83	2.59	2.44	2.32	2.24	2.17	2.11	2.06	2.03	1.99	1.96	1.94	1.91	1.91
43	4.07	3.21	2.82	2.59	2.43	2.32	2.23	2.16	2.11	2.06	2.02	1.99	1.96	1.93	1.91	1.91
44	4.06	3.21	2.82	2.58	2.43	2.31	2.23	2.16	2.10	2.05	2.01	1.98	1.95	1.92	1.90	1.90
45	4.06	3.20	2.81	2.58	2.42	2.31	2.22	2.15	2.10	2.05	2.01	1.97	1.94	1.92	1.89	1.89

Lampiran 06. T Tabel

t-test table											
cum. prob	$t_{.50}$	$t_{.75}$	$t_{.80}$	$t_{.85}$	$t_{.90}$	$t_{.95}$	$t_{.975}$	$t_{.99}$	$t_{.995}$	$t_{.999}$	$t_{.9995}$
one-tail	0.50	0.25	0.20	0.15	0.10	0.05	0.025	0.01	0.005	0.001	0.0005
two-tails	1.00	0.50	0.40	0.30	0.20	0.10	0.05	0.02	0.01	0.002	0.001
df											
1	0.000	1.000	1.376	1.963	3.078	6.314	12.71	31.82	63.66	318.31	636.62
2	0.000	0.816	1.061	1.386	1.886	2.920	4.303	6.965	9.925	22.327	31.599
3	0.000	0.765	0.978	1.250	1.638	2.353	3.182	4.541	5.841	10.215	12.924
4	0.000	0.741	0.941	1.190	1.533	2.132	2.776	3.747	4.604	7.173	8.610
5	0.000	0.727	0.920	1.156	1.476	2.015	2.571	3.365	4.032	5.893	6.869
6	0.000	0.718	0.906	1.134	1.440	1.943	2.447	3.143	3.707	5.208	5.959
7	0.000	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.499	4.785	5.408
8	0.000	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.355	4.501	5.041
9	0.000	0.703	0.883	1.100	1.383	1.833	2.262	2.821	3.250	4.297	4.781
10	0.000	0.700	0.879	1.093	1.372	1.812	2.228	2.764	3.169	4.144	4.587
11	0.000	0.697	0.876	1.088	1.363	1.796	2.201	2.718	3.106	4.025	4.437
12	0.000	0.695	0.873	1.083	1.356	1.782	2.179	2.681	3.055	3.930	4.318
13	0.000	0.694	0.870	1.079	1.350	1.771	2.160	2.650	3.012	3.852	4.221
14	0.000	0.692	0.868	1.076	1.345	1.761	2.145	2.624	2.977	3.787	4.140
15	0.000	0.691	0.866	1.074	1.341	1.753	2.131	2.602	2.947	3.733	4.073
16	0.000	0.690	0.865	1.071	1.337	1.746	2.120	2.583	2.921	3.686	4.015
17	0.000	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.898	3.646	3.965
18	0.000	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.878	3.610	3.922
19	0.000	0.688	0.861	1.065	1.328	1.729	2.093	2.539	2.861	3.579	3.883
20	0.000	0.687	0.860	1.064	1.325	1.725	2.086	2.528	2.845	3.552	3.850
21	0.000	0.686	0.859	1.063	1.323	1.721	2.080	2.518	2.831	3.527	3.819
22	0.000	0.686	0.858	1.061	1.321	1.717	2.074	2.508	2.819	3.505	3.792
23	0.000	0.685	0.858	1.060	1.319	1.714	2.069	2.500	2.807	3.485	3.768
24	0.000	0.685	0.857	1.059	1.318	1.711	2.064	2.492	2.797	3.467	3.745
25	0.000	0.684	0.856	1.058	1.316	1.708	2.060	2.485	2.787	3.450	3.725
26	0.000	0.684	0.856	1.058	1.315	1.706	2.056	2.479	2.779	3.435	3.707
27	0.000	0.684	0.855	1.057	1.314	1.703	2.052	2.473	2.771	3.421	3.690
28	0.000	0.683	0.855	1.056	1.313	1.701	2.048	2.467	2.763	3.408	3.674
29	0.000	0.683	0.854	1.055	1.311	1.699	2.045	2.462	2.756	3.396	3.659
30	0.000	0.683	0.854	1.055	1.310	1.697	2.042	2.457	2.750	3.385	3.646
40	0.000	0.681	0.851	1.050	1.303	1.684	2.021	2.423	2.704	3.307	3.551
60	0.000	0.679	0.848	1.045	1.296	1.671	2.000	2.390	2.660	3.232	3.460
80	0.000	0.678	0.846	1.043	1.292	1.664	1.990	2.374	2.639	3.195	3.416
100	0.000	0.677	0.845	1.042	1.290	1.660	1.984	2.364	2.626	3.174	3.390
1000	0.000	0.675	0.842	1.037	1.282	1.646	1.962	2.330	2.581	3.098	3.300
Z	0.000	0.674	0.842	1.036	1.282	1.645	1.960	2.326	2.576	3.090	3.291
	0%	50%	60%	70%	80%	90%	95%	98%	99%	99.8%	99.9%
	Confidence Level										



RIWAYAT HIDUP



I Gede Made Aditya Tresnajaya, lahir di desa Padangan, 24 Nopember 1999, dimana penulis ini lahir dari pasangan suami istri I Nyoman Muja Arsana dan Ni Luh Gede Suliwin. Penulis berkebangsaan Indonesia dan beragama Hindu, yang sekarang tinggal di Banjar Dinas Padangan Kaja. Dimana asal asli penulis ini berasal dari Banjar Dinas Padangan Kaja, Desa Padangan, Kecamatan Pupuan, Kabupaten Tabanan,

Provinsi Bali. Penulis yang mengenyam pendidikan Sekolah Dasar di SD Negeri 1 Padangan dari tahun 2006-2012, dan berlanjut ke Sekolah Menengah Pertama di SMP Negeri 4 Pupuan pada tahun 2012-2015, dan pada jenjang selanjutnya penulis menempuh pendidikan di Sekolah Menengah Kejuruan di SMK Negeri 3 Tabanan dengan jurusan Teknik Gambar Bangunan (TGB) pada tahun 2015-2018, dan saat ini penulis melanjutkan pendidikan di Perguruan Tinggi Negeri, Universitas Pendidikan Ganesha pada tahun 2018 yang memilih program studi S1 Pendidikan Teknik Mesin, Jurusan Teknologi Industri, Fakultas Teknik dan Kejuruan.

