

LAMPIRAN

Lampiran 1. Hasil Determinasi Tanaman *Costus Speciosus*



INSTITUT TEKNOLOGI BANDUNG

SEKOLAH ILMU DAN TEKNOLOGI HAYATI

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Nomor : 84/IT1.C11.2/TA.00/2025
Hal : Determinasi tumbuhan

06 Januari 2025

Yth. Dekan
Fakultas Farmasi
Universitas Bhakti Kencana
Jalan Soekarno Hatta No. 754
Bandung

Memperhatikan permintaan Saudara dalam surat No. 0965/03.S1-FF/UBK/XII/2024 tanggal 20 Desember 2024 mengenai determinasi tumbuhan, dengan ini kami sampaikan bahwa setelah dilakukan pendeterminasian oleh staf kami, sampel tumbuhan yang dikirim oleh Sdr. Wina Winarti (NIM: 211FF03100), yaitu:

No	Nama sampel	Hasil determinasi	Famili
1.	Pacing	<i>Costus woodsonii</i> Maas	Costaceae

Referensi:

- Chen, L., Ang, W.F., Ng, A., Teo, J., & Tang, J. (2015). *1001 garden plants in Singapore*. Singapore: Singapore Botanic Gardens, National Parks Board.
- Leong-Skorničková, J., & Gallick, D. (2010). *The Ginger Garden Volume 2 of Singapore Botanic Gardens pictorial pocket guide*. Singapore: Singapore Botanic Gardens, National Parks Board.

Demikian yang kami sampaikan. Atas perhatian dan kerjasama yang diberikan, kami ucapkan terima kasih.



Wakil Dekan Bidang Sumber Daya,

Angga Dwiartama, S.Si., M.Si., Ph.D.
NIP. 198302052012121002

Tembusan:
1. Dekan SITH ITB

Terakreditasi oleh:



Lampiran 2. Kode Etik



**KOMISI ETIK PENELITIAN KESEHATAN
UNIVERSITAS BHAKTI KENCANA**
 Jl. Soekarno - Hatta 754, Bandung
 Telp : 022-7830 760 / 022-7830-768
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**KOMISI ETIK PENELITIAN KESEHATAN
HEALTH RESEARCH ETHICS COMMITTEE
UNIVERSITAS BHAKTI KENCANA
BHAKTI KENCANA UNIVERSITY**

**KETERANGAN LAYAK ETIK
DESCRIPTION OF ETHICAL APPROVAL
"ETHICAL APPROVAL"
172/09.KEPK/UBK/VI/2025**

Protokol penelitian yang diusulkan oleh :
The research protocol proposed by :

Peneliti Utama : Wina Winarti
Principal In Investigator

Nama institusi : Universitas Bhakti kencana
Name of institution

Dengan judul :
Title

**Uji Aktivitas Antidiabetes Ekstrak Rimpang Pacing Pada Model Hewan Diabetes Yang Diinduksi
Fruktosa Dan Aloksan**

Antidiabetic Activity Test of Rhizome Pacing Extract on Fructose and Alloxan Induced Diabetes Animal Model

Dinyatakan layak etik sesuai (tujuh) standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, dan 4) Risiko, 5) Bujukan atau eksploitasi, 6) Kerahasiaan atau Privacy, 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 standards, 1) Social Value, 2) Scientific Value, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and Informed Consent, referring to the 2016 CIOMS guidelines. This is as indicated by the fulfillment of the indicators of each standards.

Pernyataan Laik Etik ini berlaku selama kurun waktu 01 Juli 2025 sampai dengan tanggal 01 Juli 2026.
This declaration of ethics applies during the period 1st July 2025 until 1st July 2026.

01 Juli 2025
 Professor and Chairperson



R. Nety Rustikayanti, S.Kp., M.Kep
 NIK. 02019010336

Lampiran 3. Karakterisasi Simplisia

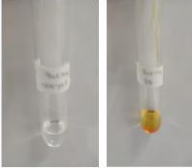
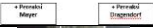
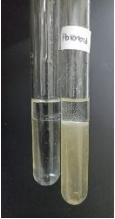
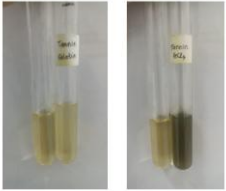
Pengujian	Hasil
 Susut Pengeringan	1. = 6,347% 2. = 6,027% 3. = 6,124% Rata-rata = $\frac{6,347\% + 6,027\% + 6,124\%}{3} = 6,166\%$
 Kadar Sari Larut Air	$\frac{34,46 \text{ gram} - 34,38 \text{ gram}}{5 \text{ gram}} \times \frac{100 \text{ mL}}{20 \text{ mL}} \times 100\% = 8\%$
 Kadar Sari Larut Etanol	$\frac{34,41 \text{ gram} - 34,38 \text{ gram}}{5 \text{ gram}} \times \frac{100 \text{ mL}}{20 \text{ mL}} \times 100\% = 3\%$
 Kadar Abu Total	$\frac{73,74 \text{ gram} - 73,66 \text{ gram}}{2 \text{ gram}} \times 100\% = 4\%$



Kadar Abu Tidak Larut
Asam

$$\frac{73,68 \text{ gram} - 73,66 \text{ gram}}{2 \text{ gram}} \times 100\% = 1\%$$

Lampiran 4. Skrining Fitokimia

Pengujian	Hasil
 	+
 Flavonoid	+
 Kuinon	+
 Tanin	+
 Saponin	+
 Steroid/Triterpenoid	+

Lampiran 5. Perlakuan Terhadap Hewan Uji



Lampiran 6. Perhitungan Larutan dan Dosis

1. Perhitungan larutan Na-CMC 0,5%

$$0,5\% = 0,5 \text{ gram} / 100 \text{ mL}$$

2. Perhitungan larutan fruktosa 25%

$$25\% = 25 \text{ gram} / 100 \text{ mL}$$

3. Perhitungan dosis obat pembanding (Metformin)

Dosis	: 500 mg dilarutkan dalam 100 mL Na-CMC
Dosis Tikus	: $500 \text{ mg} \times 0,018 = 9 \text{ mg} / 200 \text{ gram BB tikus}$
Volume Pemberian	: $\frac{9 \text{ mg}}{500 \text{ mg}} \times 100 \text{ mL} = 1,8 \text{ mL} / 200 \text{ gram BB tikus}$

4. Perhitungan dosis larutan uji ekstrak

Dosis 1	: 150 mg/KgBB
Dosis tikus	: $\frac{200 \text{ g}}{1000 \text{ g}} \times 150 \text{ mg} = 30 \text{ mg} / 200 \text{ gram BB}$
Volume Pemberian	: 30 mg/2 mL Na-CmC
Jumlah tikus yang diberi dosis 1	: 7 ekor
Pembuatan larutan	: $\frac{30 \text{ mg}}{2 \text{ mL}} \times 7 = \frac{210 \text{ mg}}{14 \text{ mL}}$
Untuk dosis 1	: $\frac{300 \text{ mg ekstrak}}{20 \text{ mL pelarut}}$
Dosis 2	: 300 mg/KgBB
Dosis tikus	: $\frac{200 \text{ g}}{1000 \text{ g}} \times 300 \text{ mg} = 60 \text{ mg} / 200 \text{ gram BB}$
Volume Pemberian	: 60 mg/2 mL Na-CmC
Jumlah tikus yang diberi dosis 1	: 7 ekor
Pembuatan larutan	: $\frac{60 \text{ mg}}{2 \text{ mL}} \times 7 = \frac{420 \text{ mg}}{14 \text{ mL}}$
Untuk dosis 2	: $\frac{600 \text{ mg ekstrak}}{20 \text{ mL pelarut}}$

Dosis 3	: 450 mg/KgBB
Dosis tikus	: $\frac{200 \text{ g}}{1000\text{g}} \times 450 \text{ mg} = 90 \text{ mg} / 200\text{gramBB}$
Volume Pemberian	: 90 mg/2 mL Na-CmC
Jumlah tikus yang diberi dosis 1	: 7 ekor
Pembuatan larutan	: $\frac{90 \text{ mg}}{2 \text{ mL}} \times 7 = \frac{630 \text{ mg}}{14 \text{ mL}}$
Untuk dosis 2	: $\frac{900 \text{ mg ekstrak}}{20 \text{ mL pelarut}}$

Lampiran 7. Dokumentasi hasil SPSS

1. Hasil SPSS Kadar Glukosa Darah

(T0)

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai_KGD	Normal	.292	5	.188	.876	5	.290
	induksi	.203	5	.200 [*]	.933	5	.615
	pembanding	.195	5	.200 [*]	.937	5	.645
	uji 150	.201	5	.200 [*]	.970	5	.877
	uji 300	.236	5	.200 [*]	.963	5	.829
	uji 450	.224	5	.200 [*]	.881	5	.312

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
Nilai_KGD	Based on Mean	.791	5	24	.567
	Based on Median	.485	5	24	.784
	Based on Median and with adjusted df	.485	5	19.098	.783
	Based on trimmed mean	.787	5	24	.569

ANOVA

Nilai_KGD					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.067	5	.813	.061	.997
Within Groups	319.012	24	13.292		
Total	323.079	29			

(H38)

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai_KGD	Normal	.334	5	.072	.799	5	.080
	induksi	.186	5	.200*	.975	5	.903
	pembanding	.300	5	.160	.812	5	.100
	uji 150	.226	5	.200*	.907	5	.448
	uji 300	.332	5	.074	.798	5	.077
	uji 450	.270	5	.200*	.914	5	.494

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
Nilai_KGD	Based on Mean	1.003	5	24	.437
	Based on Median	.370	5	24	.864
	Based on Median and with adjusted df	.370	5	20.372	.864
	Based on trimmed mean	.992	5	24	.443

ANOVA

Nilai_KGD

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6575.888	5	1315.178	275.931	.000
Within Groups	114.392	24	4.766		
Total	6690.280	29			

Post Hoc Tests

Multiple Comparisons							
Dependent Variable: Nilai_KGD							
	(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	Normal	induksi	-22.40000 [*]	1.38077	.000	-26.6693	-18.1307
		pembanding	17.36000 [*]	1.38077	.000	13.0907	21.6293
		uji 150	13.96000 [*]	1.38077	.000	9.6907	18.2293
		uji 300	15.48000 [*]	1.38077	.000	11.2107	19.7493
		uji 450	20.24000 [*]	1.38077	.000	15.9707	24.5093
	induksi	Normal	22.40000 [*]	1.38077	.000	18.1307	26.6693
		pembanding	39.76000 [*]	1.38077	.000	35.4907	44.0293
		uji 150	36.36000 [*]	1.38077	.000	32.0907	40.6293
		uji 300	37.88000 [*]	1.38077	.000	33.6107	42.1493
		uji 450	42.64000 [*]	1.38077	.000	38.3707	46.9093
	pembanding	Normal	-17.36000 [*]	1.38077	.000	-21.6293	-13.0907

	pembanding	Normal	-17.36000 [*]	1.38077	.000	-21.6293	-13.0907
		induksi	-39.76000 [*]	1.38077	.000	-44.0293	-35.4907
		uji 150	-3.40000	1.38077	.175	-7.6693	.8693
		uji 300	-1.88000	1.38077	.748	-6.1493	2.3893
		uji 450	2.88000	1.38077	.327	-1.3893	7.1493
	uji 150	Normal	-13.96000 [*]	1.38077	.000	-18.2293	-9.6907
		induksi	-36.36000 [*]	1.38077	.000	-40.6293	-32.0907
		pembanding	3.40000	1.38077	.175	-.8693	7.6693
		uji 300	1.52000	1.38077	.876	-2.7493	5.7893
		uji 450	6.28000 [*]	1.38077	.002	2.0107	10.5493
	uji 300	Normal	-15.48000 [*]	1.38077	.000	-19.7493	-11.2107
		induksi	-37.88000 [*]	1.38077	.000	-42.1493	-33.6107
		pembanding	1.88000	1.38077	.748	-2.3893	6.1493
		uji 150	-1.52000	1.38077	.876	-5.7893	2.7493
		uji 450	4.76000 [*]	1.38077	.023	.4907	9.0293
	uji 450	Normal	-20.24000 [*]	1.38077	.000	-24.5093	-15.9707
		induksi	-42.64000 [*]	1.38077	.000	-46.9093	-38.3707
		pembanding	-2.88000	1.38077	.327	-7.1493	1.3893
		uji 150	-6.28000 [*]	1.38077	.002	-10.5493	-2.0107
		uji 300	-4.76000 [*]	1.38077	.023	-9.0293	-.4907

Paired Samples Test										
Kelompok			Paired Differences					t	df	Sig. (2-tailed)
			Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
						Lower	Upper			
Normal	Pair 1	T0 - T38	,56000	2,20522	,98620	-2,17814	3,29814	,568	4	,601
Induksi	Pair 1	T0 - T38	-22,48000	4,63864	2,07446	-28,23963	-16,72037	-10,837	4	,000
Pembanding	Pair 1	T0 - T38	17,74000	3,14372	1,40592	13,83655	21,64345	12,618	4	,000
Uji 150	Pair 1	T0 - T38	13,78000	3,18544	1,42457	9,82476	17,73524	9,673	4	,001
Uji 300	Pair 1	T0 - T38	15,54000	2,85359	1,27617	11,99679	19,08321	12,177	4	,000
Uji 450	Pair 1	T0 - T38	21,10000	2,61821	1,17090	17,84907	24,35093	18,020	4	,000

		N	Subset for alpha = 0.05			
Kelompok			1	2	3	4
Tukey HSD ^a	Uji 450	5	68,7000			
	Pembanding	5	71,5800	71,5800		
	Uji 300	5		73,4600		
	Uji 150	5		74,9800		
	Normal	5			88,9400	
	Induksi	5				111,3400
	Sig.		,327	,175	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

2. Hasil SPSS Histologi

Normalitas dan Homogenitas

Tests of Normality							
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
Kelompok		Statistic	df	Sig.	Statistic	df	Sig.
Sel_Beta	Normal	,178	5	,200 [*]	,965	5	,841
	Induksi	,256	5	,200 [*]	,860	5	,228
	Pembanding	,245	5	,200 [*]	,935	5	,629
	Uji 150	,239	5	,200 [*]	,927	5	,575
	Uji 300	,153	5	,200 [*]	,994	5	,993
	Uji 450	,198	5	,200 [*]	,957	5	,787
Sel_Alfa	Normal	,211	5	,200 [*]	,965	5	,844
	Induksi	,152	5	,200 [*]	,990	5	,978
	Pembanding	,132	5	,200 [*]	,996	5	,995
	Uji 150	,284	5	,200 [*]	,823	5	,123
	Uji 300	,236	5	,200 [*]	,934	5	,623
	Uji 450	,227	5	,200 [*]	,927	5	,579

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances				
	Levene Statistic	df1	df2	Sig.
Sel_Beta	1,116	5	24	,378
Sel_Alfa	1,458	5	24	,240

Anova

ANOVA						
		Sum of Squares	df	Mean Square	F	Sig.
Sel_Beta	Between Groups	9652,167	5	1930,433	36,864	,000
	Within Groups	1256,800	24	52,367		
	Total	10908,967	29			
Sel_Alfa	Between Groups	338,167	5	67,633	2,905	,034
	Within Groups	558,800	24	23,283		
	Total	896,967	29			

Post Hoc

Sel Beta

Comparison between groups		Normal distribution of residuals		Normal distribution of residuals		Normal distribution of residuals		Normal distribution of residuals	
Sel_Beta	Tukey HSD	Normal	Induksi	49,20000	4,57675	,000	35,0490	63,3510	
			Pembanding	-2,40000	4,57675	,995	-16,5510	11,7510	
			Uji 150	9,20000	4,57675	,366	-4,9510	23,3510	
			Uji 300	4,80000	4,57675	,896	-9,3510	18,9510	
			Uji 450	-,60000	4,57675	1,000	-14,7510	13,5510	
		Induksi	Normal	-49,20000*	4,57675	,000	-63,3510	-35,0490	
			Pembanding	-51,60000*	4,57675	,000	-65,7510	-37,4490	
			Uji 150	-40,00000*	4,57675	,000	-54,1510	-25,8490	
			Uji 300	-44,40000*	4,57675	,000	-58,5510	-30,2490	
			Uji 450	-49,80000*	4,57675	,000	-63,9510	-35,6490	
		Pembanding	Normal	2,40000	4,57675	,995	-11,7510	16,5510	
			Induksi	51,60000*	4,57675	,000	37,4490	65,7510	
			Uji 150	11,60000	4,57675	,154	-2,5510	25,7510	
			Uji 300	7,20000	4,57675	,623	-6,9510	21,3510	
			Uji 450	1,80000	4,57675	,999	-12,3510	15,9510	
		Uji 150	Normal	-9,20000	4,57675	,366	-23,3510	4,9510	
			Induksi	40,00000*	4,57675	,000	25,8490	54,1510	
			Pembanding	-11,60000	4,57675	,154	-25,7510	2,5510	
			Uji 300	-4,40000	4,57675	,926	-18,5510	9,7510	
			Uji 450	-9,80000	4,57675	,301	-23,9510	4,3510	
		Uji 300	Normal	-4,80000	4,57675	,896	-18,9510	9,3510	
			Induksi	44,40000*	4,57675	,000	30,2490	58,5510	
			Pembanding	-7,20000	4,57675	,623	-21,3510	6,9510	
			Uji 150	4,40000	4,57675	,926	-9,7510	18,5510	
			Uji 450	-5,40000	4,57675	,842	-19,5510	8,7510	
		Uji 450	Normal	,60000	4,57675	1,000	-13,5510	14,7510	
			Induksi	49,80000*	4,57675	,000	35,6490	63,9510	
			Pembanding	-1,80000	4,57675	,999	-15,9510	12,3510	
			Uji 150	9,80000	4,57675	,301	-4,3510	23,9510	
			Uji 300	5,40000	4,57675	,842	-8,7510	19,5510	

Sel Alfa

Sel_Alfa	Tukey HSD	Normal	Induksi	-8,60000	3,05178	,089	-18,0359	,8359
			Pembanding	1,20000	3,05178	,999	-8,2359	10,6359
			Uji 150	-3,40000	3,05178	,871	-12,8359	6,0359
			Uji 300	-1,80000	3,05178	,991	-11,2359	7,6359
			Uji 450	,80000	3,05178	1,000	-8,6359	10,2359
		Induksi	Normal	8,60000	3,05178	,089	-,8359	18,0359
			Pembanding	9,80000*	3,05178	,039	,3641	19,2359
			Uji 150	5,20000	3,05178	,542	-4,2359	14,6359
			Uji 300	6,80000	3,05178	,262	-2,6359	16,2359
			Uji 450	9,40000	3,05178	,051	-,0359	18,8359
		Pembanding	Normal	-1,20000	3,05178	,999	-10,6359	8,2359
			Induksi	-9,80000*	3,05178	,039	-19,2359	-,3641
			Uji 150	-4,60000	3,05178	,663	-14,0359	4,8359
			Uji 300	-3,00000	3,05178	,919	-12,4359	6,4359
			Uji 450	-,40000	3,05178	1,000	-9,8359	9,0359
		Uji 150	Normal	3,40000	3,05178	,871	-6,0359	12,8359
			Induksi	-5,20000	3,05178	,542	-14,6359	4,2359
			Pembanding	4,60000	3,05178	,663	-4,8359	14,0359
			Uji 300	1,60000	3,05178	,995	-7,8359	11,0359
			Uji 450	4,20000	3,05178	,740	-5,2359	13,6359
		Uji 300	Normal	1,80000	3,05178	,991	-7,6359	11,2359
			Induksi	-6,80000	3,05178	,262	-16,2359	2,6359
			Pembanding	3,00000	3,05178	,919	-6,4359	12,4359
			Uji 150	-1,60000	3,05178	,995	-11,0359	7,8359
			Uji 450	2,60000	3,05178	,954	-6,8359	12,0359
		Uji 450	Normal	-,80000	3,05178	1,000	-10,2359	8,6359
			Induksi	-9,40000	3,05178	,051	-18,8359	,0359
			Pembanding	,40000	3,05178	1,000	-9,0359	9,8359
			Uji 150	-4,20000	3,05178	,740	-13,6359	5,2359
			Uji 300	-2,60000	3,05178	,954	-12,0359	6,8359

Lampiran 8. Hasil cek plagiarisme

Draf_skripsi_71125-1754374373443			
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13%	13%	5%	4%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS
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Lampiran 9. Lembar Bimbingan

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	5 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	Kemajuan 1	✓	 
1	20 Februari 2025	Aulia Nurfazri Istiqomah, M.Si	Diskusi prosedur penelitian	✓	 
2	21 Februari 2025	Aulia Nurfazri Istiqomah, M.Si	Diskusi prosedur penelitian	✓	 
2	23 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	Diskusi prosedur penelitian	✓	 
3	26 Februari 2025	Aulia Nurfazri Istiqomah, M.Si	Diskusi prosedur penelitian	✓	 
4	25 Juni 2025	Dr. apt. Widhya Aligita, M.Si.	Data penelitian	✓	 
4	19 Maret 2025	Aulia Nurfazri Istiqomah, M.Si	Mengirimkan data spreadsheet	✓	 
5	3 Mei 2025	Aulia Nurfazri Istiqomah, M.Si	Kemajuan 1	✓	 
5	2 Juli 2025	Dr. apt. Widhya Aligita, M.Si.	Bab 1-4	✓	 
6	7 Juli 2025	Dr. apt. Widhya Aligita, M.Si.	Data penelitian	✓	 
6	12 Juni 2025	Aulia Nurfazri Istiqomah, M.Si	Diskusi analisis data	✓	 
7	12 Juni 2025	Aulia Nurfazri Istiqomah, M.Si	Kemajuan 2	✓	 
7	8 Juli 2025	Dr. apt. Widhya Aligita, M.Si.	Revisi Data & Bab 1-5	✓	 
8	30 Juni 2025	Aulia Nurfazri Istiqomah, M.Si	Data penelitian	✓	 

DAFTAR RIWAYAT HIDUP



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Tempat/Tanggal Lahir : Bandung, 1 Maret 2003
Alamat : Kp. Paseh, Desa Ibun, Kec. Ibun, Bandung

Pendidikan:

1. SDN 2 Ibun (2009-2015)
2. SMPN 1 Ibun (2015-2018)
3. SMAN 2 Majalaya (2018-2021)
4. Universitas Bhakti Kencana (2021-2025)