

DAFTAR PUSTAKA

- Ayala-Zavala, J. F., Wang, S. Y., Wang, C. Y., & González-Aguilar, G. A. (2004). Effect of Storage Temperatures on Antioxidant Capacity and Aroma Compounds in *Strawberry* Fruit. *LWT-Food Science and Technology*, 37(7), 687-695.
- Balikan, C. M., Tooy, D., & Wenur, F. (2021). Kajian Pembuatan Asap Cair Tempurung Kelapa Dengan proses Pirolisis dan Destilasi di Sulawesi Utara. *Jurnal Teknologi Pertanian*. 12(2), 97-104
- Beauchat, L.R. (2000). Use of Sanitizer in Raw Fruit and Vegetables Processing Minimally Processed Fruit and Vegetables. Fundamental Aspect and Application. *Gaithersburg, MD*. 63-78.
- Fadilla, R. V. (2018). Perbandingan Kadar Vitamin C Dalam Buah Stroberi (*Fragaria x ananassa* Duch.) dan Minuman Stroberi Kemasan dengan Spektrofotometri UV-VIS. *Skripsi*. Universitas Setia Budi: Surakarta.
- Falah, M.A.F., Yuliasuti, P., Hanifah, R., Saroyo, P., & Jumeri (2018). Kualitas Buah *Strawberry* (*Fragaria sp cv Holibert*) Segar dan Penyimpanannya dalam Lingkungan Tropis Dari Kebun Ketep Magelang Jawa Tengah. *Jurnal Agroindustri*, 8(1), 1-8.
- Garcia, J.M., Herrera, S., & Morilla, A. (1996). Effects of Postharvest Dips in Calcium Chloride on *Strawberry*. *Journal of Agricultural and Food Chemistry*. 44, 30-33.
- Haji, A.G., Z.A., Mas'ud, B.W., Lay, S.H., Sutjahjo., & G. Pari. (2007). Karakterisasi Asap Cair Hasil Pirolisis Sampah Organik Padat (Characterization Of Liquid Smoke Pyrolyzed From Solid Organic Waste). *J. Tek. Ind. Pert.* 16(3), 111-118
- Harsanti, F. (2022). Pengaruh Substitusi Buah Stroberi (*Fragaria x ananassa*) Terhadap Karakteristik Organoleptik, Kadar Proksimat dan Kadar Serat Snack Bar untuk Penderita Diabetes Mellitus. *Skripsi*. Universitas Binawan: Jakarta.
- Ikrawan, Y., & Ina, S.N. (2017). Kajian Pengaruh Jenis Pelapis dan Suhu Pengeringan Terhadap Sifat Fisika dan Kimia Buah *Strawberry* (*Fragaria Sp*) Selama Penyimpanan. *Journal of Agricultural*. 1-16.
- Kusumaningrum, A., Ida, B.W.G., & Made, M.W. (2019). Ptimasi Suhu dan Ph Terhadap Aktivitas Enzim Endoglukanase Menggunakan Response Surface Methodology (Rsm). *Jurnal Rekayasa dan Manajemen Agroindustri*. 7(2), 243-253.
- Kurnia, A. (2005). *Petunjuk Praktis Budi Daya Strawberry*. Agromedia Pustaka, Jakarta.

- Nasution, R. P., Trisnowati, S., & Putra, E. T. S. 2013. Pengaruh Lama Penyinaran Ultraviolet-C dan Cara Pengemasan Terhadap Mutu Buah *Strawberry* (*Fragaria x ananassa Duchesne*) Selama Penyimpanan. *Vegetalika*. 2(2), 87-99
- Ooraikul, B., & Stiles, M. E. (Eds.). (1991). *Modified Atmosphere Packaging Of Food* (pp. 293-pp). Chichester: Ellis Horwood.
- Pakiding, F. L., Muhidong, J., & Hutabarat, O. S. (2015). Profil sifat fisik buah terung belanda (*Cyphomandra betacea*). *Jurnal Agritechno*, 132-139.
- Purwoko, S.B., & Suryana, K. (2000). Efek Suhu Simpan dan Pelapis Terhadap Perubahan Kualitas Buah Pisang Cavendish. Fakultas Pertanian Institut Pertanian Bogor. *Bul. Agron*. 28(3), 77-84.
- Ramadhan, M.R., Mohammad, A.F.F., & Atris, S. (2022). Analisis Perbandingan Pengukuran Karakteristik Mutu Berdasarkan Parameter Warna pada *Strawberry* Segar (*Fragaria X Ananassa Var Kellybright*) Selama Masa Penyimpanan. *Journal Teknologi Industri Pertanian*. 2(2), 45-56.
- Rasydta, H. P. (2013). Penggunaan Asap Cair Tempurung Kelapa Dalam Pengawetan Ikan Bandeng. *Skripsi*. Universitas Negeri Semarang: Semarang.
- Sahrum, R. P., Syaiful, A. Z., & Gazali, A. (2021). Kualitas Asap Cair Tempurung Kelapa dan Serbuk Geragaji Kayu Metode Pirolisis. *Jurnal SAINTIS*. 2(2), 72-78.
- Santoso, A. B. (2016). Pengaruh Perubahan Iklim Terhadap Produksi Tanaman Pangan di Provinsi Maluku. *Jurnal Penelitian Pertanian Tanaman Pangan*. 35(1).
- Sapers, G. M. (2001). Efficacy Of Washing and Sanitizing Methods for Disinfection of Fresh Fruit and Vegetable Products. *Food Technology and Biotechnology*. 39(4).
- Sari, R.N., Dwi. D.N., & Cich, S. (2015). Pengaruh Konsentrasi Tepung Karagenan dan Gliserol Sebagai Edible Coating Terhadap Perubahan Mutu Buah *Strawberry* (*Fragaria X ananassa*) Selama Penyimpanan. *Jurnal Teknik Pertanian Lampung*. 4(4), 305-314.
- Sisilia, D., Rosalina., & Muda, F. (2011). Pemanfaatan Asap Cair untuk Mempertahankan Kesegaran Buah Pisang Ambon Curup. *Jurnal Agroindustri*. 1(1), 8-15.

Sukasih, E., & Setyadjit. (2019). Teknologi Penanganan Buah Segar Stroberi untuk Mempertahankan Mutu. *Jurnal Litbang Pertanian*. 38(1), 47-54.

USDA. (2018). *Strawberry Raw*.

Wibowo, A., & Majid, N. K. (2011). Pengawetan Buah *Strawberry (Fragaria x ananassa)* dengan Metode Pelapisan Menggunakan Karaginan dari Rumput Laut (*Euuchema spinosum*). *Skripsi*. Universitas Sebelas Maret: Surakarta.

LAMPIRAN

Lampiran 1. Hasil Uji ANOVA Nilai Warna L Selama Penyimpanan.

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
1	Between Groups	4,766	9	0,53	0,115	0,999
	Within Groups	92,203	20	4,61		
	Total	96,969	29			
2	Between Groups	5,662	9	0,629	0,264	0,978
	Within Groups	47,737	20	2,387		
	Total	53,399	29			
3	Between Groups	5,499	9	0,611	0,52	0,843
	Within Groups	23,497	20	1,175		
	Total	28,997	29			
4	Between Groups	4,991	9	0,555	0,526	0,839
	Within Groups	21,098	20	1,055		
	Total	26,089	29			
5	Between Groups	4,878	9	0,542	0,324	0,957
	Within Groups	33,481	20	1,674		
	Total	38,359	29			
6	Between Groups	6,158	9	0,684	0,328	0,955
	Within Groups	41,706	20	2,085		
	Total	47,864	29			
7	Between Groups	9,072	9	1,008	0,521	0,842
	Within Groups	38,672	20	1,934		
	Total	47,744	29			
8	Between Groups	53,181	9	5,909	4,742	0,002
	Within Groups	24,92	20	1,246		
	Total	78,101	29			
9	Between Groups	92,247	9	10,25	6,781	0
	Within Groups	30,231	20	1,512		
	Total	122,478	29			
10	Between Groups	3576,37	9	397,374	372,626	0
	Within Groups	21,328	20	1,066		
	Total	3597,699	29			

Lampiran 2. Hasil Uji DMRT (*Duncan's Multiple Range Test*) Nilai L* pada Setiap Perlakuan Selama Penyimpanan.

Perlakuan	Lama Penyimpanan (Hari)									
	1	2	3	4	5	6	7	8	9	10
P1	31,24 ^a	30,35 ^a	29,68 ^a	29,37 ^a	29,26 ^a	29,08 ^a	28,61 ^a	28,27 ^{cd}	28,07 ^{cde}	27,79 ^c
P2	30,25 ^a	29,80 ^a	30,02 ^a	29,57 ^a	29,33 ^a	29,12 ^a	28,97 ^a	28,64 ^d	28,24 ^{cde}	28,05 ^c
P3	31,26 ^a	30,67 ^a	30,02 ^a	29,85 ^a	29,55 ^a	29,34 ^a	29,09 ^a	28,96 ^d	28,52 ^{de}	28,20 ^c
P4	30,76 ^a	30,25 ^a	29,97 ^a	29,86 ^a	29,67 ^a	29,54 ^a	29,22 ^a	29,03 ^d	28,95 ^{de}	28,50 ^c
P5	31,68 ^a	31,15 ^a	30,98 ^a	30,69 ^a	30,60 ^a	30,52 ^a	29,76 ^a	29,56 ^d	29,36 ^e	29,22 ^c
P6	31,15 ^a	30,27 ^a	31,15 ^a	29,39 ^a	29,17 ^a	28,84 ^a	27,70 ^a	25,40 ^a	23,77 ^a	
P7	30,75 ^a	30,18 ^a	29,68 ^a	29,58 ^a	29,38 ^a	29,11 ^a	28,41 ^a	26,06 ^{ab}	25,33 ^{ab}	
P8	30,74 ^a	30,24 ^a	30,01 ^a	29,71 ^a	29,67 ^a	29,16 ^a	28,72 ^a	26,36 ^{abc}	25,49 ^{ab}	24,42 ^b
P9	31,10 ^a	30,82 ^a	30,46 ^a	30,17 ^a	29,81 ^a	29,53 ^a	29,07 ^a	27,47 ^{bcd}	26,12 ^{bc}	24,79 ^b
P10	31,49 ^a	31,23 ^a	30,93 ^a	30,34 ^a	30,01 ^a	29,76 ^a	29,45 ^a	27,66 ^{bcd}	26,94 ^{bcd}	24,99 ^b
DMRT sig	0,99	0,97	0,84	0,83	0,95	0,95	0,84	0,00	0,00	0,00

Lampiran 3. Hasil Uji ANOVA Nilai Warna a* Selama Penyimpanan.

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
1	Between Groups	1,852	9	0,206	0,482	0,87
	Within Groups	8,545	20	0,427		
	Total	10,397	29			
2	Between Groups	0,935	9	0,104	0,187	0,993
	Within Groups	11,088	20	0,554		
	Total	12,023	29			
3	Between Groups	2,21	9	0,246	0,399	0,921
	Within Groups	12,314	20	0,616		
	Total	14,524	29			
4	Between Groups	3,955	9	0,439	0,539	0,829
	Within Groups	16,29	20	0,815		
	Total	20,245	29			
5	Between Groups	5,18	9	0,576	0,839	0,59
	Within Groups	13,724	20	0,686		
	Total	18,904	29			
6	Between Groups	6,259	9	0,695	1,832	0,124
	Within Groups	7,594	20	0,38		
	Total	13,854	29			
7	Between Groups	10,345	9	1,149	1,288	0,303
	Within Groups	17,849	20	0,892		
	Total	28,194	29			

Lanjutan Lampiran 3. Hasil Uji ANOVA Nilai Warna a* Selama Penyimpanan.

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
8	Between Groups	10,572	9	1,175	1,698	0,155
	Within Groups	13,835	20	0,692		
	Total	24,407	29			
9	Between Groups	21,635	9	2,404	3,466	0,01
	Within Groups	13,873	20	0,694		
	Total	35,508	29			
10	Between Groups	7141,265	9	793,474	829,901	0
	Within Groups	19,122	20	0,956		
	Total	7160,387	29			

Lampiran 4. Hasil Uji DMRT (Duncan's Multiple Range Test) Nilai a* pada Setiap Perlakuan Selama Penyimpanan.

Perlakuan	Lama Penyimpanan (Hari)									
	1	2	3	4	5	6	7	8	9	10
P1	35,28 ^a	35,78 ^a	36,51 ^a	36,93 ^a	37,22 ^a	37,19 ^{abc}	37,48 ^{ab}	37,97 ^{ab}	38,24 ^{ab}	38,37 ^{ab}
P2	35,15 ^a	35,66 ^a	36,45 ^a	36,75 ^a	36,87 ^a	37,04 ^{abc}	37,30 ^{ab}	37,76 ^{ab}	37,91 ^a	38,05 ^{ab}
P3	35,42 ^a	35,67 ^a	36,39 ^a	36,49 ^a	36,79 ^a	36,00 ^{abc}	37,22 ^{ab}	37,50 ^a	37,48 ^a	37,96 ^{ab}
P4	35,80 ^a	35,96 ^a	36,20 ^a	36,43 ^a	36,69 ^a	36,84 ^{ab}	36,98 ^{ab}	37,30 ^a	37,72 ^a	37,86 ^{ab}
P5	35,35 ^a	35,50 ^a	35,86 ^a	36,14 ^a	36,37 ^a	36,52 ^a	36,76 ^a	37,16 ^a	37,45 ^a	37,54 ^a
P6	35,43 ^a	35,99 ^a	36,87 ^a	37,48 ^a	37,93 ^a	38,12 ^c	38,79 ^b	39,22 ^b	40,10 ^c	
P7	35,89 ^a	35,12 ^a	36,71 ^a	37,14 ^a	37,38 ^a	37,81 ^{bc}	38,29 ^{ab}	38,68 ^{ab}	39,79 ^{bc}	
P8	35,62 ^a	35,84 ^a	36,54 ^a	36,81 ^a	36,15 ^a	37,68 ^{abc}	37,98 ^{ab}	38,24 ^{ab}	39,06 ^{abc}	39,71 ^c
P9	35,87 ^a	35,96 ^a	36,33 ^a	36,74 ^a	36,95 ^a	37,37 ^{abc}	37,84 ^{ab}	38,12 ^{ab}	38,90 ^{abc}	39,45 ^c
P10	35,70 ^a	35,89 ^a	36,18 ^a	36,51 ^a	36,70 ^a	37,03 ^{abc}	37,47 ^{ab}	37,95 ^{ab}	38,62 ^{ab}	39,28 ^{bc}
DMRT sig	0,87	0,99	0,92	0,82	0,59	0,12	0,30	0,15	0,01	0,00

Lampiran 5. Hasil Uji ANOVA Nilai Warna b* Selama Penyimpanan

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
1	Between Groups	4,766	9	0,53	0,115	0,999
	Within Groups	92,203	20	4,61		
	Total	96,969	29			
2	Between Groups	5,662	9	0,629	0,264	0,978
	Within Groups	47,737	20	2,387		
	Total	53,399	29			
3	Between Groups	5,499	9	0,611	0,52	0,843
	Within Groups	23,497	20	1,175		
	Total	28,997	29			
4	Between Groups	4,991	9	0,555	0,526	0,839
	Within Groups	21,098	20	1,055		
	Total	26,089	29			
5	Between Groups	4,878	9	0,542	0,324	0,957
	Within Groups	33,481	20	1,674		
	Total	38,359	29			
6	Between Groups	6,158	9	0,684	0,328	0,955
	Within Groups	41,706	20	2,085		
	Total	47,864	29			
7	Between Groups	9,072	9	1,008	0,521	0,842
	Within Groups	38,672	20	1,934		
	Total	47,744	29			
8	Between Groups	53,181	9	5,909	4,742	0,002
	Within Groups	24,92	20	1,246		
	Total	78,101	29			
9	Between Groups	92,247	9	10,25	6,781	0
	Within Groups	30,231	20	1,512		
	Total	122,478	29			
10	Between Groups	3576,37	9	397,374	372,626	0
	Within Groups	21,328	20	1,066		
	Total	3597,699	29			

Lampiran 6. Hasil Uji ANOVA Nilai Warna ΔE Selama Penyimpanan

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
1	Between Groups	66,924	9	7,436	1,223	0,336
	Within Groups	121,61	20	6,08		
	Total	188,534	29			
2	Between Groups	20,648	9	2,294	1,227	0,333
	Within Groups	37,39	20	1,869		
	Total	58,038	29			
3	Between Groups	8,513	9	0,946	1,797	0,132
	Within Groups	10,527	20	0,526		
	Total	19,04	29			
4	Between Groups	6,612	9	0,735	1,131	0,387
	Within Groups	12,996	20	0,65		
	Total	19,609	29			
5	Between Groups	9,223	9	1,025	2,311	0,057
	Within Groups	8,868	20	0,443		
	Total	18,091	29			
6	Between Groups	12,484	9	1,387	2,763	0,028
	Within Groups	10,042	20	0,502		
	Total	22,526	29			
7	Between Groups	13,015	9	1,446	1,178	0,36
	Within Groups	24,559	20	1,228		
	Total	37,574	29			
8	Between Groups	11,093	9	1,233	0,848	0,583
	Within Groups	29,053	20	1,453		
	Total	40,146	29			
9	Between Groups	8,337	9	0,926	1,226	0,334
	Within Groups	15,107	20	0,755		
	Total	23,444	29			
10	Between Groups	21,631	9	2,403	3,169	0,015
	Within Groups	15,169	20	0,758		
	Total	36,8	29			

Lampiran 7. Hasil Uji ANOVA Nilai Susut Bobot Selama Penyimpanan.

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
1	Between Groups	200,499	9	22,278	8,258	0
	Within Groups	53,953	20	2,698		
	Total	254,452	29			
2	Between Groups	141,335	9	15,704	1,652	0,167
	Within Groups	190,167	20	9,508		
	Total	331,502	29			
3	Between Groups	147,91	9	16,434	3,584	0,008
	Within Groups	91,72	20	4,586		
	Total	239,63	29			
4	Between Groups	270,808	9	30,09	4,892	0,002
	Within Groups	123,02	20	6,151		
	Total	393,828	29			
5	Between Groups	566,943	9	62,994	3,967	0,005
	Within Groups	317,607	20	15,88		
	Total	884,55	29			
6	Between Groups	1498,52	9	166,502	6,361	0
	Within Groups	523,473	20	26,174		
	Total	2021,994	29			
7	Between Groups	3767,175	9	418,575	7,298	0
	Within Groups	1147,1	20	57,355		
	Total	4914,275	29			
8	Between Groups	5220,14	9	580,016	14,487	0
	Within Groups	800,733	20	40,037		
	Total	6020,874	29			
9	Between Groups	5233,49	9	581,499	3,582	0,008
	Within Groups	3246,513	20	162,326		
	Total	8480,003	29			
10	Between Groups	7033,476	9	781,497	17,725	0
	Within Groups	881,793	20	44,09		
	Total	7915,27	29			









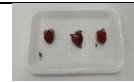





























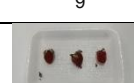



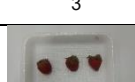

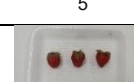





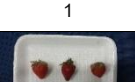









Lampiran 8. Hasil Uji ANOVA pada Parameter Kekerasan Selama Penyimpanan

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
1	Between Groups	5,415	9	0,602	0,346	0,948
	Within Groups	34,82	20	1,741		
	Total	40,235	29			
2	Between Groups	8,085	9	0,898	0,543	0,826
	Within Groups	33,087	20	1,654		
	Total	41,172	29			
3	Between Groups	11,301	9	1,256	0,861	0,573
	Within Groups	29,173	20	1,459		
	Total	40,475	29			
4	Between Groups	17,888	9	1,988	1,863	0,118
	Within Groups	21,333	20	1,067		
	Total	39,222	29			
5	Between Groups	23,076	9	2,564	5,219	0,001
	Within Groups	9,827	20	0,491		
	Total	32,903	29			
6	Between Groups	25,196	9	2,8	9,437	0
	Within Groups	5,933	20	0,297		
	Total	31,13	29			
7	Between Groups	31,968	9	3,552	11,229	0
	Within Groups	6,327	20	0,316		
	Total	38,295	29			
8	Between Groups	34,834	9	3,87	25,803	0
	Within Groups	3	20	0,15		
	Total	37,834	29			
9	Between Groups	66,299	9	7,367	30,952	0
	Within Groups	4,76	20	0,238		
	Total	71,059	29			
10	Between Groups	293,255	9	32,584	322,612	0
	Within Groups	2,02	20	0,101		
	Total	295,275	29			


















































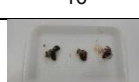
Lampiran 9. Hasil Uji ANOVA pada Parameter Total Padatan Terlarut (TPT)

ANOVA						
Day	Source	Sum of Squares	df	Mean Square	F	Sig.
1	Between Groups	0,667	9	0,074	0,44	0,897
	Within Groups	3,367	20	0,168		
	Total	4,034	29			
2	Between Groups	0,34	9	0,038	0,135	0,998
	Within Groups	5,587	20	0,279		
	Total	5,927	29			
3	Between Groups	0,975	9	0,108	0,294	0,968
	Within Groups	7,36	20	0,368		
	Total	8,335	29			
4	Between Groups	0,641	9	0,071	0,135	0,998
	Within Groups	10,593	20	0,53		
	Total	11,235	29			
5	Between Groups	0,754	9	0,084	0,141	0,998
	Within Groups	11,84	20	0,592		
	Total	12,594	29			
6	Between Groups	0,383	9	0,043	0,054	1
	Within Groups	15,847	20	0,792		
	Total	16,23	29			
7	Between Groups	1,267	9	0,141	0,083	1
	Within Groups	33,967	20	1,698		
	Total	35,234	29			
8	Between Groups	0,228	9	0,025	0,03	1
	Within Groups	17,173	20	0,859		
	Total	17,402	29			
9	Between Groups	0,765	9	0,085	0,098	0,999
	Within Groups	17,273	20	0,864		
	Total	18,039	29			
10	Between Groups	232,245	9	25,805	53,279	0
	Within Groups	9,687	20	0,484		
	Total	241,932	29			

Lampiran 10. Dokumentasi Buah Strawberry pada Suhu Dingin.

Perlakuan	Lama penyimpanan									
Pelapisan asap cair 300 ml & 700 ml air	1	2	3	4	5	6	7	8	9	10
										
Pelapisan asap cair 500 ml & 300 ml air	1	2	3	4	5	6	7	8	9	10
										
Pelapisan asap cair 700 ml & 300 ml air	1	2	3	4	5	6	7	8	9	10
										
Pelapisan asap cair 300 ml & 700 ml air	1	2	3	4	5	6	7	8	9	10
										
Pelapisan asap cair 500 ml & 300 ml air	1	2	3	4	5	6	7	8	9	10
										
Pelapisan asap cair 700 ml & 300 ml air	1	2	3	4	5	6	7	8	9	10
										

Lampiran 11. Dokumentasi Buah Strawberry pada Suhu Ruang.

Perlakuan	Lama penyimpanan									
	1	2	3	4	5	6	7	8	9	10
Kontrol										
										
Pelapisan asap cair 100 ml & 900 ml air										
										
Pelapisan asap cair 300 ml & 700 ml air										
										
Pelapisan asap cair 500 ml & 300 ml air										
										
Pelapisan asap cair 700 ml & 300 ml air										
										

Lampiran 12. Dokumentasi Penelitian



Gambar 8. Proses Penyortiran Buah *Strawberry*.



Gambar 9. Proses Perendaman Buah *Strawberry* pada Larutan Asap Cair.



Gambar 10. Proses Penyimpanan Buah *Strawberry* pada Suhu Ruan.



Gambar 11. Pengukuran Parameter.

DAFTAR RIWAYAT HIDUP

A. Data Pribadi

1. Nama : Muhammad Taufiq Hidayat
2. Tempat, tgl. lahir : Parepare 03 November 2002
3. Alamat : Jln. Kerabat Kera-kera
4. Kewarganegaraan : Warga Negara Indonesia

B. Riwayat Pendidikan

1. Tamat SD Tahun 2014 di SDN 15 Parepare
2. Tamat SMP Tahun 2017 di SMPN 9 Parepare
3. Tamat SMA Tahun 2020 di SMAN 1 Parepare
4. Sarjana (S1) tahun 2024 di Universitas Hasanuddin

C. Pekerjaan dan Riwayat Pekerjaan/Organisasi

1. Riwayat Organisasi : Pengurus Himpunan Mahasiswa Teknologi Pertanian (HIMATEPA) 2021/2022 dan 2022/2023 serta aktif pada kegiatan Laboratorium yang terhimpun dalam *Agriculture Study Club* (TSC).