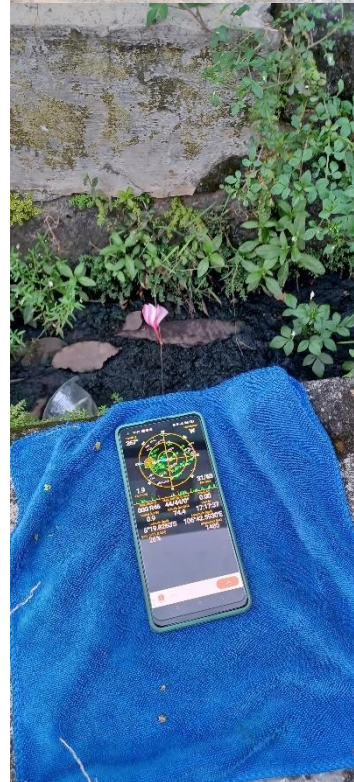
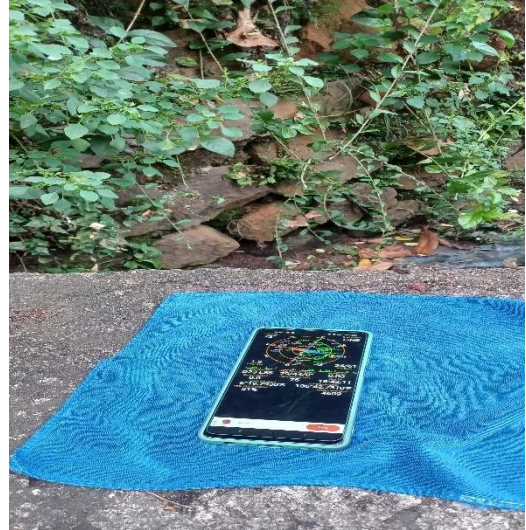


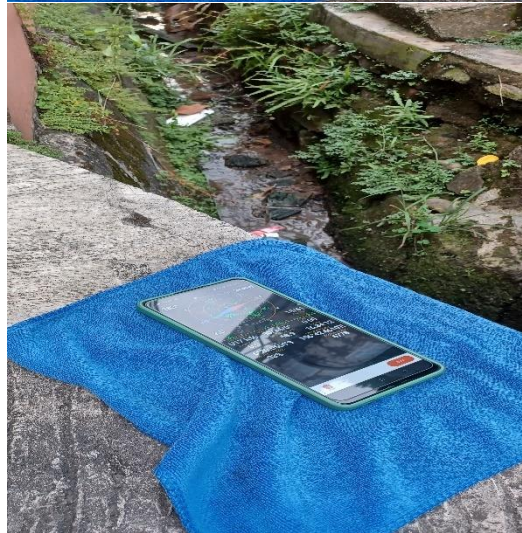
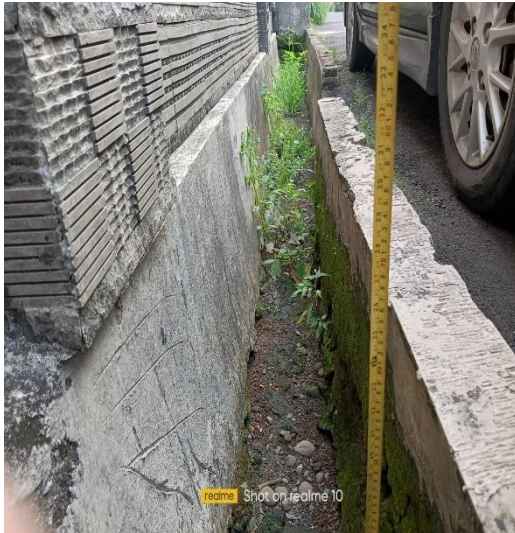
LAMPIRAN

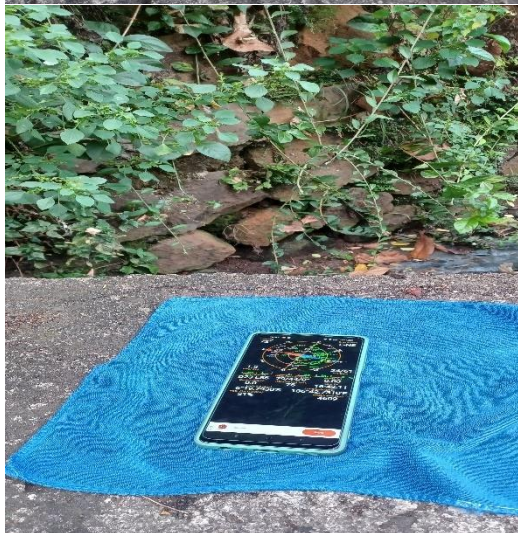
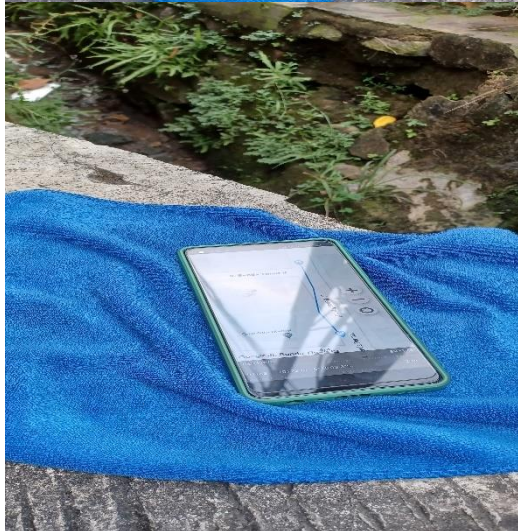
Lampiran A Survei Lapangan

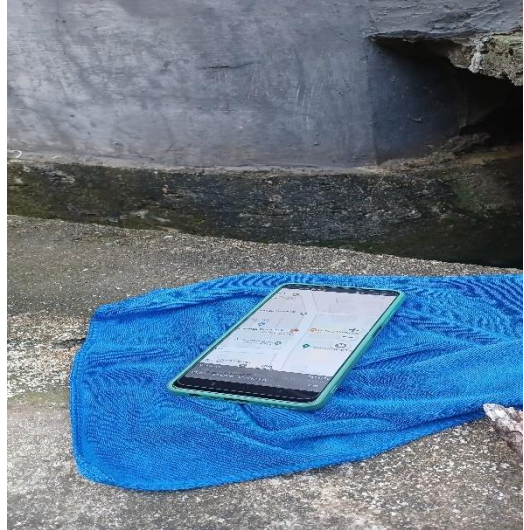
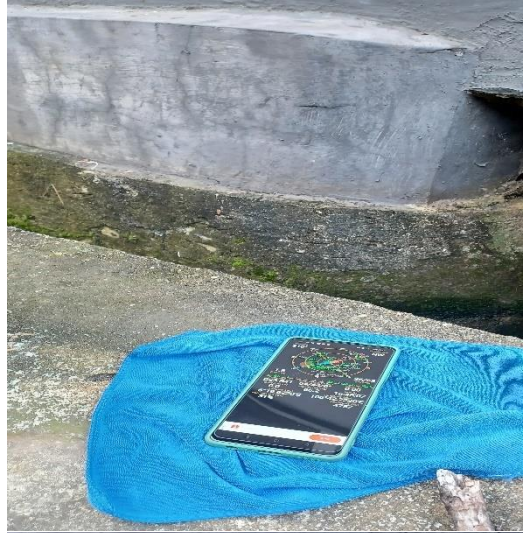
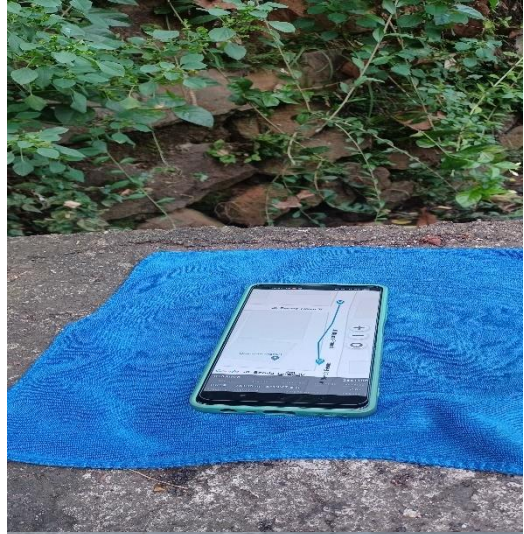


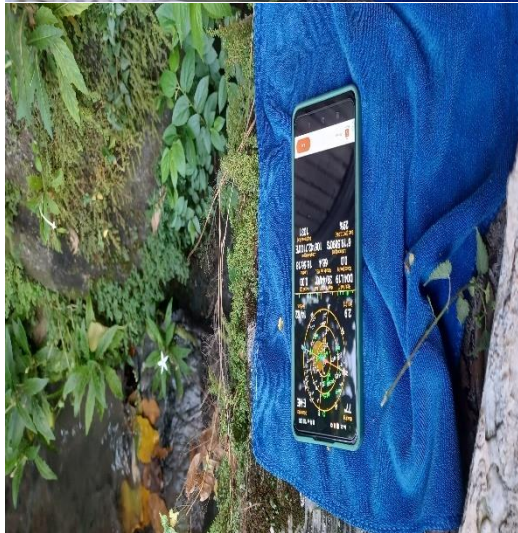


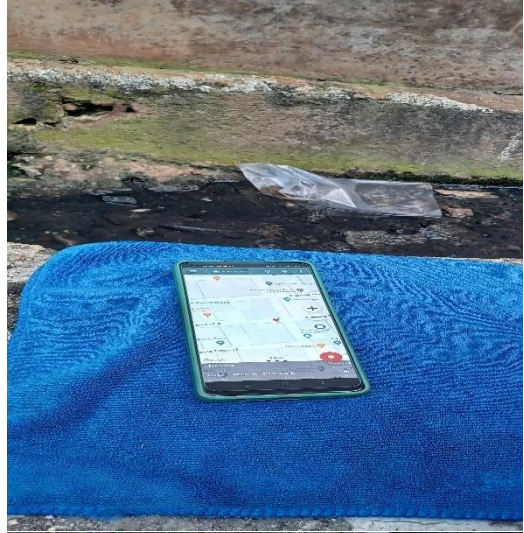


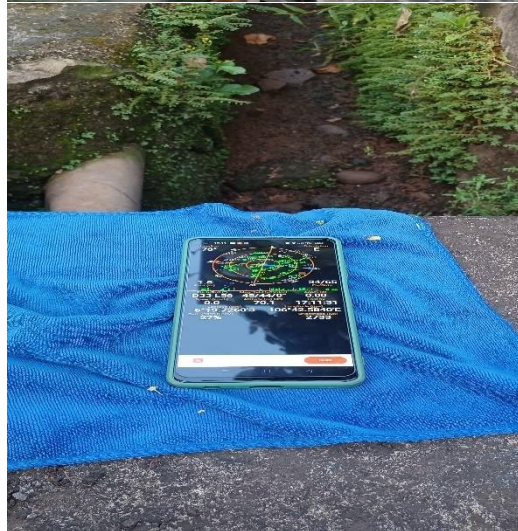


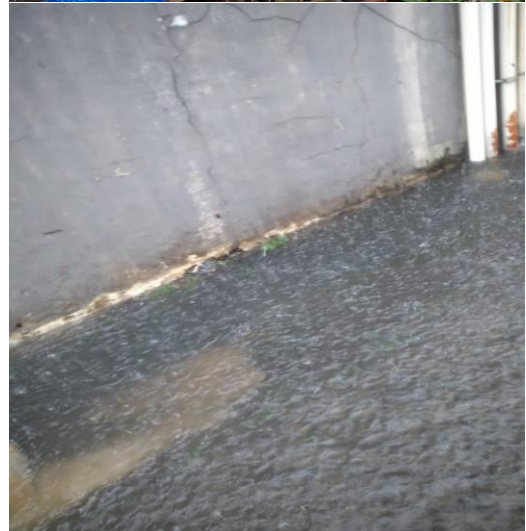
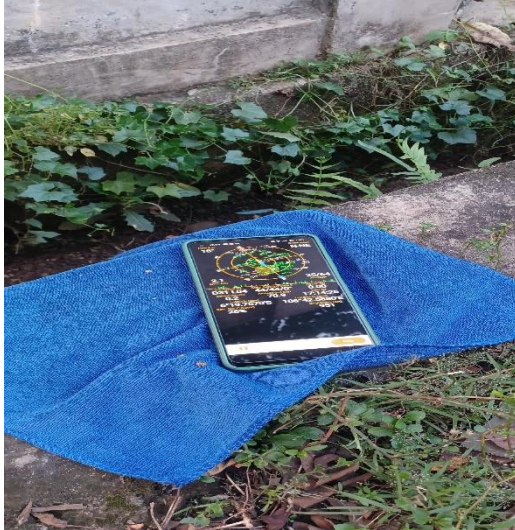
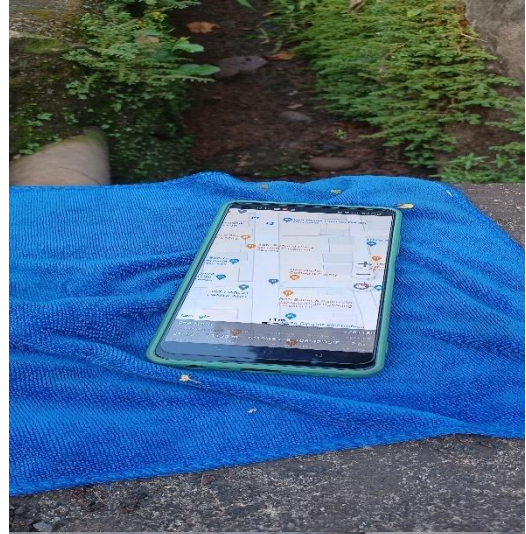




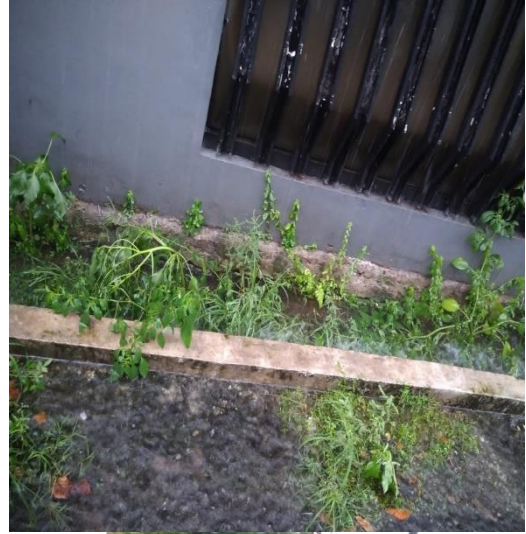


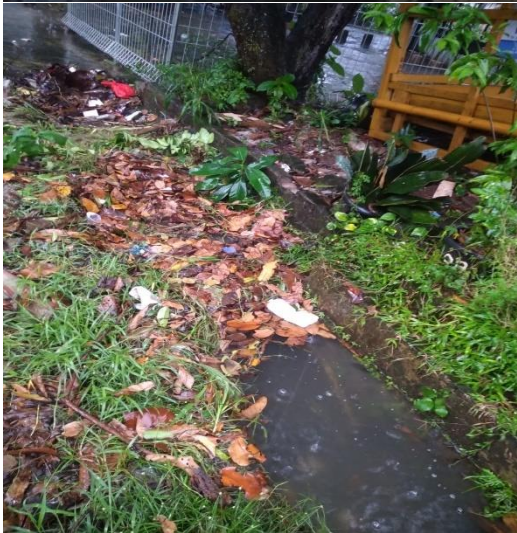


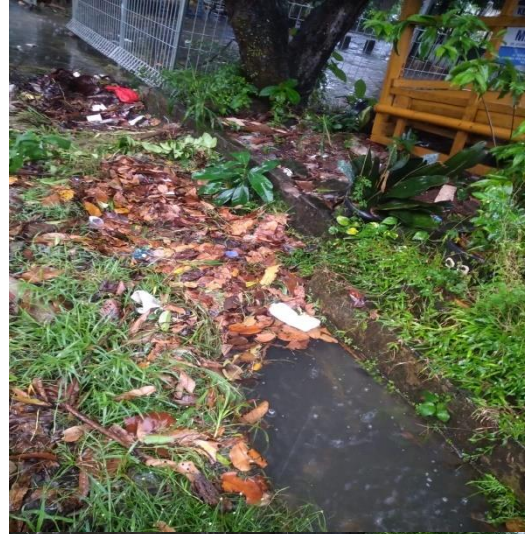


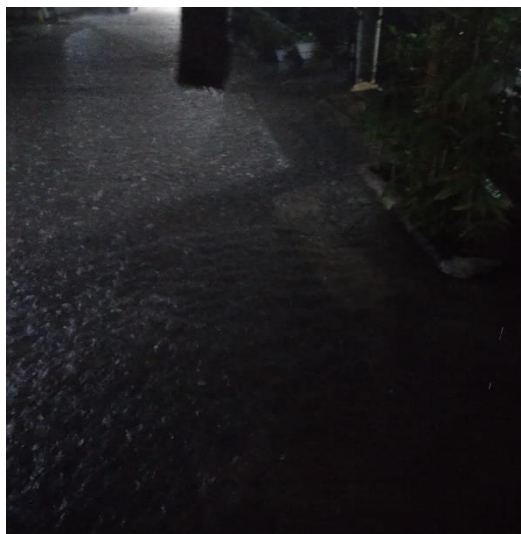


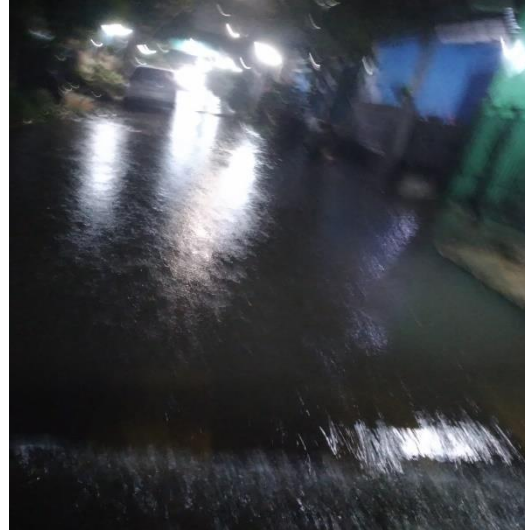














Lampiran B Surat Izin Permohonan Data



Tanggal : 25 April 2024
Nomor : 001/EKS-TSP/UPJ/04.24
Lampiran : 1 (satu)
Perihal : Surat Permohonan Izin Permintaan Data

Kepada Yth,
Kepala Balai Besar Wilayah Ciliwung-Cisadane
Balai Besar Wilayah Ciliwung-Cisadane
Jl. Inspeksi Sahuran Tarum Barat No. 58, RT.1/RW.6,
Cipinang Melayu, Kec. Makasar, Kota Jakarta Timur,
Daerah Khusus Ibukota Jakarta 13620

Dengan hormat,

Sehubungan dengan pelaksanaan kegiatan belajar mengajar di Universitas Pembangunan Jaya, Program Studi Teknik Sipil menyelenggarakan program skripsi sebagai syarat penyelesaian program kesarjanaannya. Dengan maksud tersebut, kami, Program Studi Teknik Sipil Universitas Pembangunan Jaya, memohon kepada Bapak/Ibu agar dapat mengizinkan mahasiswa kami untuk dapat melakukan permintaan data dalam rangka menyelesaikan penelitian yang dimaksud.

Permintaan data ini bertujuan untuk kebutuhan data pendukung skripsi yang berjudul Kajian Perubahan Kemunculan Banjir Akibat Peningkatan kapasitas Sungai Angke pada Kawasan Cluster Nusa Indah Loka, Graha raya, Tangerang Selatan.

Adapun mahasiswa tersebut adalah

Nama : Adhie Pahlawan
NIM : 2020091005
No HP/Email : 085782693928 / adhie.pahlawan@student.upj.ac.id

Data yang di butuhkan untuk kebutuhan data skripsi yaitu data Sungai Angke dan data curah hujan yang terdapat pada Stasiun hujan FT. Kampus UI dalam kurun waktu tahun 2012 sampai dengan tahun 2023.

Apabila ada hal yang ingin dikonfirmasi, mohon kiranya dapat menghubungi Bapak Dr. Tri Nugraha Adikesuma, S.T., M.T (081802114887) selaku dosen pembimbing skripsi mahasiswa tersebut.

Demikian surat ini kami sampaikan. Atas perhatian dan kerja samanya, kami ucapkan terima kasih.

Hormat Kami,
Kepala Program Studi Teknik Sipil
Universitas Pembangunan Jaya

Dr. Tri Nugraha Adikesuma, S.T., M.T
NIP. 08.0711.020

Catatan : Mohon maaf apabila terdapat kesalahan dalam penulisan Nama dan Gelar

Universitas Pembangunan Jaya
Jl. Cendrawasih Raya, Blok B7/P, Dintoro Jaya, Sawah Baru, Ciputat, Tangerang Selatan, 15413
Phone: 021.745 5555 | Fax: 021.298 615 25 (Marketing) | Fax: 021.298 615 45 (Rektorat) | Website: www.upj.ac.id

Lampiran C Data Hujan Bulanan



ID WMO : 96749

Nama Stasiun : Stasiun Meteorologi Soekarno Hatta

Lintang : -6.12000

Bujur : 106.65000

Elevasi : 11

DATA HUJAN BULANAN PERIODE 2013- 2022

| STASIUN/POS HUJAN | TAHUN | DATA HUJAN HARIAN MAKSIMAL (MM) | | | | | | | | | | | |
|------------------------------------|-------|---------------------------------|-------|-------|------|------|-------|------|-------|------|------|------|------|
| | | JAN | FEB | MAR | APR | MEI | JUN | JUL | AGUST | SEP | OKT | NOV | DES |
| Stasiun Meteorologi Soekarno Hatta | 2014 | 104,1 | 96,7 | 96,4 | 82,1 | 13 | 22,9 | 36,8 | 35,2 | 22,6 | 10,7 | 26,1 | 72,3 |
| | 2015 | 79 | 127,7 | 27 | 21,3 | 20,2 | 87,5 | 0 | 6 | 0 | 8,9 | 20 | 47,5 |
| | 2016 | 78 | 147,6 | 54,4 | 15,5 | 48,7 | 112,7 | 45,3 | 27,9 | 20,6 | 54 | 15,4 | 30,9 |
| | 2017 | 51,8 | 72,5 | 28,5 | 47,2 | 36,5 | 125,5 | 30,8 | 8,5 | 86,2 | 31,2 | 25,3 | 53,8 |
| | 2018 | 31 | 58 | 83,7 | 20,6 | 85,4 | 30,4 | 6,7 | 0,2 | 7,4 | 7,6 | 20,2 | 77,4 |
| | 2019 | 48,7 | 36,5 | 57 | 19,5 | 26,4 | 19,5 | 0,6 | 0,6 | 27,2 | 15,2 | 17,1 | 35,8 |
| | 2020 | 147,9 | 111 | 33,9 | 10,3 | 34,5 | 5 | 7,9 | 70,4 | 5,3 | 50 | 6 | 22,8 |
| | 2021 | 58,8 | 56,2 | 74,5 | 79,4 | 65,4 | 21,8 | 18,6 | 66,6 | 22 | 38,5 | 10,3 | 67 |
| | 2022 | 150,6 | 45,6 | 23 | 37,7 | 70 | 40 | 40,1 | 29 | 38,8 | 34 | 40,2 | 36,3 |
| | 2023 | 50,9 | 50,2 | 107,6 | 16,4 | 16 | 16 | 19,8 | 52,6 | 0 | 19,8 | 48 | 9,6 |



ID WMO : 96733

Nama Stasiun : Stasiun Klimatologi Tangerang Selatan

Lintang : -6.26151

Bujur : 106.75084

DATA HUJAN BULANAN PERIODE 2013- 2022

| STASIUN/POS HUJAN | TAHUN | DATA CURAH HUJAN HARIAN MAKSIMAL (MM) | | | | | | | | | | | |
|---------------------------------------|-------|---------------------------------------|-------|------|------|------|------|------|-------|------|------|------|-------|
| | | JAN | FEB | MAR | APR | MEI | JUN | JUL | AGUST | SEPT | OKT | NOV | DES |
| Stasiun Klimatologi Tangerang Selatan | 2014 | 79,4 | 119,5 | 25 | 51,2 | 57,8 | 76 | 46,2 | 68,5 | 20 | 13,3 | 58,8 | 35,6 |
| | 2015 | 87,3 | 117 | 47,7 | 38,5 | 35,5 | 33 | 0 | 7,2 | 2 | 10 | 25,3 | 13,2 |
| | 2016 | 0 | 25,2 | 44,2 | 0,2 | 23 | 0 | 50,5 | 58 | 60,5 | 41 | 97 | 24 |
| | 2017 | 20 | 73,8 | 57 | 57,8 | 58 | 33 | 36 | 6 | 64 | 46,2 | 80,2 | 69,2 |
| | 2018 | 26 | 38,3 | 36,8 | 86,3 | 45,8 | 26,5 | 1,5 | 3,8 | 43,5 | 27 | 65,4 | 84 |
| | 2019 | 46 | 77,4 | 31,6 | 49,6 | 73,4 | 39,4 | 3 | 8,4 | 0 | 33,3 | 76 | 41,7 |
| | 2020 | 208,9 | 86,7 | 44,6 | 79,5 | 70,2 | 14,2 | 34,9 | 37,2 | 3 | 79,1 | 34,7 | 46,5 |
| | 2021 | 35,1 | 118,9 | 32 | 45,8 | 96,5 | 95,5 | 33,5 | 64,1 | 21,4 | 50,3 | 117 | 65,8 |
| | 2022 | 33,2 | 44,3 | 73,5 | 39,7 | 43,2 | 68,3 | 65,3 | 46,5 | 63,4 | 75,3 | 94,5 | 123,8 |
| | 2023 | 56,4 | 105 | 65 | 25,3 | 29,4 | 34,7 | 22,7 | 2,4 | 28,9 | 8,4 | 43,4 | 71,5 |



ID WMO : 96753

Nama Stasiun : Stasiun Klimatologi Bogor

Lintang : -6.50000

Bujur : 106.75000

Elevasi : 207

DATA HUJAN BULANAN PERIODE 2013- 2022

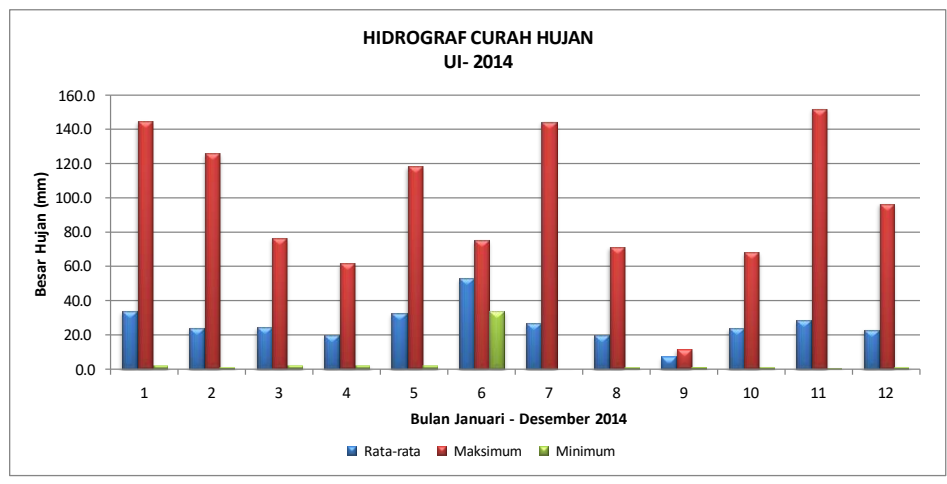
| STASIUN/POS HUJAN | TAHUN | DATA CURAH HUJAN HARIAN MAKSIMAL (MM) | | | | | | | | | | | |
|---------------------------------|-------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | JAN | FEB | MAR | APR | MEI | JUN | JUL | AGUST | SEP | OKT | NOV | DES |
| Stasiun Klimatologi Bogor | 2014 | 103,3 | 41,5 | 56,4 | 169,1 | 42,1 | 26,1 | 116,7 | 147,3 | 5,7 | 93,7 | 153 | 74,6 |
| | 2015 | 23,7 | 88,8 | 62,6 | 48 | 51,4 | 63,1 | 0,8 | 94,6 | 54 | 63,5 | 155,8 | 81,5 |
| | 2016 | 103,8 | 105,7 | 73,3 | 108,6 | 67,2 | 81,7 | 63,3 | 66,7 | 96,3 | 73,3 | 50,2 | 19,9 |
| | 2017 | 28,6 | 75 | 44,2 | 50,3 | 48,1 | 117,6 | 77,3 | 70 | 63 | 76,9 | 41,4 | 33,2 |
| | 2018 | 29,8 | 62,7 | 25 | 49,1 | 134,5 | 91,3 | 20,5 | 41,6 | 67 | 116 | 76,8 | 62 |
| | 2019 | 39,8 | 68,3 | 41,3 | 134,2 | 78,7 | 34,8 | 35,4 | 54,2 | 78,6 | 130,1 | 83,6 | 141 |
| | 2020 | 99,9 | 116,7 | 121,7 | 112 | 108 | 61,5 | 50,6 | 34 | 101,5 | 122,9 | 33 | 38,2 |
| | 2021 | 41 | 95,9 | 43,4 | 67,1 | 86,7 | 53 | 44,5 | 77 | 68,5 | 74,6 | 29,5 | 39,6 |
| | 2022 | 21,1 | 31 | 24 | 86,3 | 48,5 | 130,4 | 155,2 | 58,5 | 58,2 | 79,7 | 52 | 35,5 |
| | 2023 | 41,3 | 51,6 | 68,5 | 76 | 68,1 | 73,7 | 58 | 112,4 | 27 | 44,5 | 148 | 98,5 |

BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : UI
Tahun : 2014

| Tanggal | 2014 | | | | | | | | | | | | Keterangan |
|------------------------|--------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|------------|
| | Jan | Feb | Maret | April | Mei | Juni | Juli | Agst | Sep | Okt | Nop | Des | |
| 1 | 6.3 | 6.5 | - | 6.2 | - | - | - | - | - | - | - | - | - |
| 2 | 15.2 | 6.4 | 9.5 | - | 45.8 | - | - | - | - | - | - | - | - |
| 3 | - | 42.3 | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 2.4 | 68.2 | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | 12.3 |
| 6 | - | - | 76.1 | - | - | - | 0.5 | - | 9.5 | - | - | - | 6.6 |
| 7 | - | - | 8.4 | 4.8 | - | - | 0.6 | - | 11.2 | - | - | - | - |
| 8 | 19.5 | - | - | 9.1 | 32.4 | - | 0.4 | - | - | - | - | - | - |
| 9 | - | 26.2 | 14.5 | - | - | - | - | - | - | 1.2 | 12.5 | - | - |
| 10 | 31.8 | 12.3 | - | - | - | - | - | - | - | - | 12.3 | - | - |
| 11 | 6.7 | 2.8 | - | - | - | - | - | - | - | - | 38.5 | - | - |
| 12 | 30.2 | 3.6 | - | - | - | 33.8 | 14.2 | 70.6 | - | - | - | - | - |
| 13 | 144.3 | - | 12.4 | - | 5.7 | 75.2 | - | 1.2 | - | - | 9.8 | - | - |
| 14 | - | - | 33.2 | 4.9 | - | - | - | - | - | - | 9.6 | - | - |
| 15 | 20.5 | - | - | - | 34.8 | - | - | - | - | - | - | - | - |
| 16 | - | - | - | - | 80.8 | 69.3 | - | 3.3 | - | - | 69.2 | - | - |
| 17 | 18.2 | - | 18.5 | - | 3.9 | - | - | - | - | - | 1.8 | - | - |
| 18 | 68.6 | - | - | - | 2.3 | - | - | - | - | - | 16.1 | - | - |
| 19 | 64.4 | 2.6 | - | 37.8 | - | - | - | - | - | 24.2 | 15.2 | - | - |
| 20 | 2.8 | - | 26.8 | - | 68.3 | - | - | - | - | - | 73.8 | 11.4 | - |
| 21 | 33.2 | 22.3 | - | 2.3 | 2.4 | - | 15.8 | - | 1.1 | - | - | - | 1.5 |
| 22 | 48.6 | - | 9.7 | 16.8 | - | - | - | - | - | - | 6.5 | 2.2 | - |
| 23 | 17.3 | 125.6 | - | 41.6 | 117.6 | - | 33.2 | - | - | - | - | - | 96.1 |
| 24 | 7.4 | 9.5 | - | - | 47.5 | - | - | - | - | 67.8 | - | - | - |
| 25 | 48.6 | 22.6 | 2.6 | - | - | - | - | - | - | - | 151.5 | - | - |
| 26 | - | 17.4 | - | - | 8.2 | 33.9 | 6.3 | - | - | 3.3 | - | - | - |
| 27 | - | 18.6 | - | - | 8.1 | - | 144.2 | - | - | - | 0.8 | 31.2 | - |
| 28 | 74.8 | 1.5 | - | 14.2 | 3.2 | - | - | - | - | - | 13.2 | - | - |
| 29 | 31.5 | - | 55.8 | 61.3 | - | - | - | - | - | - | 10.2 | - | - |
| 30 | 13.8 | - | 27.6 | - | - | - | - | 20.2 | - | - | 13.8 | - | - |
| 31 | - | - | - | - | 26.5 | - | - | 3.9 | - | - | - | - | - |
| Rata-rata | 33.6 | 24.3 | 24.6 | 19.9 | 32.5 | 53.1 | 26.9 | 19.8 | 7.3 | 24.1 | 28.4 | 23.0 | |
| Maksimum | 144.3 | 125.6 | 76.1 | 61.3 | 117.6 | 75.2 | 144.2 | 70.6 | 11.2 | 67.8 | 151.5 | 96.1 | |
| Minimum | 2.4 | 1.5 | 2.6 | 2.3 | 2.3 | 33.8 | 0.4 | 1.2 | 1.1 | 1.2 | 0.8 | 1.5 | |
| Jml. Hari Hujan | 21 | 16 | 12 | 10 | 15 | 4 | 8 | 5 | 3 | 4 | 16 | 7 | |

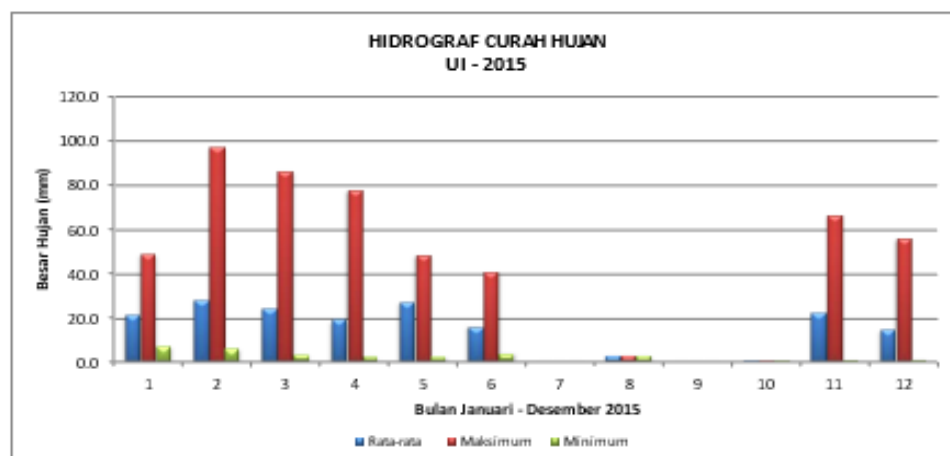


BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokaal : FT UI Depok
Tahun : 2015

| Tanggal | 2015 | | | | | | | | | | | | Keterangan |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|------------|----------------|------------|-------------|-------------|------------|
| | Jan | Feb | Maret | April | Mai | Juni | Juli | Agst | Sep | Okt | Nop | Des | |
| 1 | 24.7 | 5.8 | - | - | - | - | - | 2.7 | - | - | - | - | |
| 2 | - | 37.9 | - | 20.1 | - | 9.1 | - | - | - | - | - | - | |
| 3 | - | - | 10.6 | 76.8 | - | 40.6 | - | - | - | - | 44.8 | - | |
| 4 | 16.2 | - | - | - | 23.5 | - | - | - | - | - | - | 53.2 | |
| 5 | 15.4 | - | - | 9.3 | - | - | - | - | - | - | - | 34.5 | |
| 6 | - | - | - | 4.1 | - | - | - | - | - | - | - | - | |
| 7 | - | 9.8 | - | - | - | - | - | 2.6 | - | - | 10.5 | 24.5 | |
| 8 | - | - | 23.8 | - | - | - | - | - | - | - | 3.6 | - | |
| 9 | - | 39.7 | - | 25.6 | - | - | - | - | - | - | 10.1 | 10.3 | |
| 10 | - | 97.2 | 22.7 | 9.9 | 48.2 | 3.5 | - | - | - | 0.6 | 13.5 | - | |
| 11 | - | 11.5 | - | - | - | 11.2 | - | - | - | - | 6.5 | 55.7 | |
| 12 | - | - | 10.3 | 2.2 | - | - | - | - | - | - | - | 19.5 | |
| 13 | 48.4 | - | 31.2 | 4.7 | - | - | - | - | - | - | - | 56.2 | |
| 14 | 32.8 | 31.5 | - | - | - | - | - | - | - | - | - | 8.2 | |
| 15 | 10.2 | - | 3.2 | 16.3 | 34.5 | - | - | - | - | - | - | - | |
| 16 | - | - | 21.1 | - | - | - | - | - | - | - | - | - | |
| 17 | 7.1 | - | - | - | - | - | - | - | - | - | 65.7 | 7.1 | |
| 18 | - | 26.5 | - | 21.3 | - | - | - | - | - | - | 33.2 | 0.7 | |
| 19 | - | 6.9 | 4.5 | - | - | - | - | - | - | - | - | 3.5 | |
| 20 | 24.5 | - | 26.1 | 18.5 | - | - | - | - | - | - | - | 0.8 | |
| 21 | - | - | - | - | - | - | - | - | - | - | - | 5.3 | |
| 22 | 9.2 | - | 46.4 | - | - | - | - | - | - | - | 25.5 | - | |
| 23 | 48.4 | - | 85.5 | - | - | - | - | - | - | - | 13.7 | - | |
| 24 | - | 26.8 | 12.3 | - | - | - | - | - | - | - | 14.8 | - | |
| 25 | - | - | - | - | - | - | - | - | - | - | 25.5 | - | |
| 26 | 9.1 | - | - | - | - | - | - | - | - | - | 2.3 | - | |
| 27 | - | 13.8 | 26.7 | - | - | - | - | - | - | - | 51.1 | 3.2 | |
| 28 | - | 32.6 | - | - | - | - | - | - | - | - | - | 0.7 | |
| 29 | 23.2 | - | 15.6 | - | - | - | - | - | - | - | 6.6 | 3.6 | |
| 30 | 9.8 | - | - | - | 2.2 | - | - | - | - | - | - | 4.9 | |
| 31 | - | - | - | - | - | - | - | - | - | - | 0.7 | 5.4 | |
| Rata-rata | 21.3 | 28.3 | 24.4 | 19.0 | 27.1 | 16.1 | #DIV/0! | 2.7 | #DIV/0! | 0.6 | 21.8 | 14.6 | |
| Makelimum | 48.4 | 97.2 | 85.5 | 76.8 | 48.2 | 40.6 | 0.0 | 2.7 | 0.0 | 0.6 | 65.7 | 55.7 | |
| Minimum | 7.1 | 5.8 | 3.2 | 2.2 | 2.2 | 3.5 | 0.0 | 2.6 | 0.0 | 0.6 | 0.7 | 0.7 | |
| Jml. Hari Hujan | 13 | 12 | 14 | 11 | 4 | 4 | 0 | 2 | 0 | 1 | 18 | 16 | |

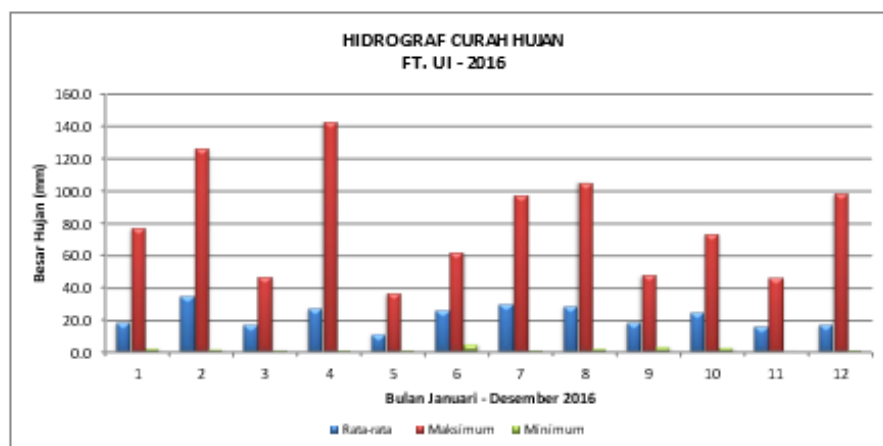


BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : FT UI Depok
Tahun 2016

| Tanggal | 2016 | | | | | | | | | | | | Keterangan |
|------------------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|------------|
| | Jan | Feb | Maret | April | Mai | Jun | Juli | Agst | Sep | Okt | Nop | Des | |
| 1 | - | - | 46.6 | 1.3 | 8.4 | - | 46.5 | - | - | - | 0.5 | - | |
| 2 | - | 25.5 | 3.6 | 1.2 | - | 8.4 | - | 32.4 | 33.6 | - | - | 0.5 | |
| 3 | 25.2 | 2.7 | 13.2 | 6.4 | 14.5 | 5.9 | 51.8 | 43.5 | 19.6 | - | 10.5 | 9.8 | |
| 4 | - | - | - | 2.3 | 0.5 | 8.1 | 3.5 | - | - | - | 0.4 | 20.2 | |
| 5 | 73.2 | - | - | - | - | - | 11.7 | - | - | 2.6 | - | - | |
| 6 | 2.1 | - | - | - | - | - | - | - | - | 10.3 | - | 98 | |
| 7 | 6.1 | 102.5 | 16.3 | 0.8 | - | 54.8 | - | - | 9.8 | - | - | - | |
| 8 | - | 6.2 | - | - | 0.5 | 9.2 | - | 4.5 | 6.6 | 3.7 | - | - | |
| 9 | - | 52.3 | - | 53.2 | 36.5 | 11.2 | - | 55.3 | 35.7 | 4.2 | 19.5 | 21.8 | |
| 10 | 2.5 | 77.3 | 1.3 | - | - | - | - | 6.8 | - | 70.1 | 18.8 | - | |
| 11 | 22.2 | 14.9 | 0.9 | - | - | - | - | 4.1 | - | 55.3 | 1.5 | 12.4 | |
| 12 | 75.8 | 1.3 | - | - | - | - | 96.6 | 22.5 | - | 16.6 | 5.2 | - | |
| 13 | 5.2 | 125.2 | 17.2 | - | 7.2 | 4.5 | - | - | - | - | 22.8 | - | |
| 14 | - | 5.5 | - | - | - | - | - | 1.8 | 2.8 | 22.8 | 3.3 | - | |
| 15 | 1.9 | - | 23.5 | 56.2 | - | - | - | 5.3 | 47.8 | - | 19.4 | 4.3 | |
| 16 | 10.9 | - | 40.5 | 2.7 | - | - | 0.7 | - | - | 12.2 | 43.5 | - | |
| 17 | - | 11.5 | - | - | - | - | 5.2 | - | - | - | 2.2 | 2 | |
| 18 | - | 7.2 | 18.2 | 36.8 | - | 58.8 | 32.2 | 7.5 | 30.3 | - | 8.9 | 1.3 | |
| 19 | 7.4 | - | - | 1.2 | - | - | - | - | 30.3 | - | 45.5 | - | |
| 20 | 2.6 | - | 24.5 | 63.5 | - | - | - | 40.8 | 5.5 | - | 20.2 | - | |
| 21 | 2.8 | 10.3 | - | 141.5 | 23.2 | - | 27.2 | - | - | - | - | - | |
| 22 | - | - | 40.5 | - | 1.2 | 16.2 | - | 55.6 | 9.8 | - | - | - | |
| 23 | 48.5 | 7.3 | - | - | - | - | 31.5 | - | - | 10.3 | - | - | |
| 24 | 14.5 | 28.5 | - | 2.4 | 15.4 | 61.5 | - | - | - | 25.5 | 26.8 | - | |
| 25 | 34.1 | 36.4 | 0.8 | - | 7.5 | 5.4 | - | - | 8.3 | 1.2 | 14.2 | - | |
| 26 | 5.8 | 28.3 | 0.9 | 42.4 | 9.2 | - | - | - | 16.9 | - | 33.7 | - | |
| 27 | 3.5 | - | - | 2.5 | - | 59.2 | - | 104.6 | - | - | - | - | |
| 28 | 17.7 | 77.3 | 5.4 | - | - | - | - | - | - | 72.7 | - | - | |
| 29 | 8.5 | - | - | - | - | 38.8 | - | - | 22.5 | 10.2 | 13.9 | 19.8 | |
| 30 | - | - | 11.2 | 12.2 | - | 22.7 | 19.5 | - | 3.9 | 5.5 | - | - | |
| 31 | - | - | - | - | - | - | - | 8.8 | - | 42.2 | - | 1.9 | |
| Rata-rata | 18.5 | 34.5 | 16.5 | 26.7 | 11.3 | 26.1 | 29.7 | 28.1 | 18.9 | 24.3 | 16.4 | 17.5 | |
| Maksimum | 75.8 | 125.2 | 46.6 | 141.5 | 36.5 | 61.5 | 96.6 | 104.6 | 47.8 | 72.7 | 45.5 | 98.0 | |
| Minimum | 1.9 | 1.3 | 0.8 | 0.8 | 0.5 | 4.5 | 0.7 | 1.8 | 2.8 | 2.6 | 0.4 | 0.5 | |
| Jml. Hari Hujan | 20 | 18 | 16 | 16 | 11 | 14 | 11 | 14 | 15 | 15 | 19 | 11 | |

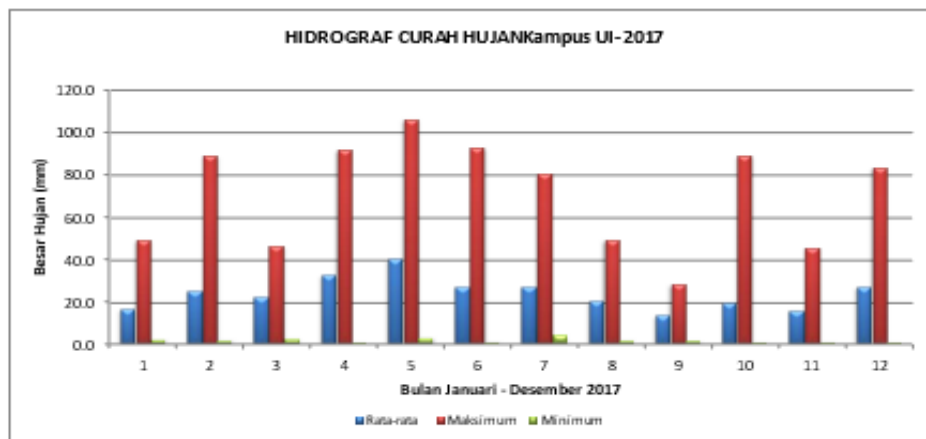


BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : Kampus UI
Tahun : 2017

| Tanggal | 2017 | | | | | | | | | | | | Keterangan |
|------------------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| | Jan | Feb | Maret | April | Mai | Juni | Juli | Agst | Sep | Okt | Nop | Des | |
| 1 | - | 22.2 | 42.7 | - | 2.5 | 11.7 | 10.5 | - | - | 1.7 | 20.4 | - | |
| 2 | - | 48.3 | 43.4 | - | 70.5 | 3.6 | - | - | - | 29.9 | - | - | |
| 3 | - | - | 13.5 | - | 91.7 | - | - | - | - | 18.6 | - | - | |
| 4 | 33.5 | - | 28.8 | 86.2 | 10.8 | - | 4.5 | - | - | 5.3 | - | - | |
| 5 | 6.9 | 12.5 | 16.5 | 23.4 | 105.7 | 1.4 | - | - | - | - | - | - | |
| 6 | 31.2 | 9.4 | 8.4 | - | 11.8 | 49.7 | - | - | 4.5 | - | 6.7 | - | |
| 7 | - | - | 42.5 | - | 32.3 | - | - | - | - | - | 45.3 | - | |
| 8 | - | 2.2 | - | 2.8 | 16.5 | - | - | - | - | 0.7 | 3.2 | - | |
| 9 | 1.8 | 13.5 | 30.2 | - | 17.5 | - | 20.9 | - | - | - | - | 29.3 | |
| 10 | 25.2 | - | 33.5 | - | - | - | - | 48.5 | - | 1.8 | 37.8 | - | |
| 11 | 48.8 | 13.8 | - | 30.5 | - | - | - | 30.2 | 27.6 | - | 1.3 | 38 | |
| 12 | 15 | 15.9 | - | 80.5 | - | 5.6 | 28.8 | - | - | 9.4 | - | 82.5 | |
| 13 | 3 | 22.5 | - | 27.5 | - | - | - | - | - | 53.2 | 19.2 | 4.5 | |
| 14 | - | 16.4 | - | - | - | 67.2 | - | - | - | - | 6.3 | - | |
| 15 | - | 27.8 | - | - | - | - | - | 1.5 | - | 12.5 | 27.2 | - | |
| 16 | 8.2 | 3.2 | - | 1.5 | - | 6.4 | - | - | - | - | 0.8 | - | |
| 17 | 4.9 | 88.5 | 2.8 | - | - | - | - | - | - | 42.8 | 22.5 | 39.5 | |
| 18 | - | 15.2 | 7.7 | - | - | - | - | - | - | - | - | - | |
| 19 | - | - | - | - | - | 0.7 | - | - | - | 47.8 | 24.4 | 5.5 | |
| 20 | - | - | - | 53.4 | - | - | - | - | - | 88.5 | 0.8 | 3.8 | |
| 21 | - | 20.7 | 6.5 | - | - | - | 22.4 | - | - | 7.2 | - | 44.8 | |
| 22 | - | 77.5 | 45.7 | 91.2 | - | - | - | - | - | - | 0.8 | 19.8 | |
| 23 | - | 16.5 | 21.3 | - | - | - | - | - | - | - | 9.4 | - | |
| 24 | - | 2.2 | 8.5 | - | - | - | 47.5 | - | - | 2.3 | - | - | |
| 25 | 12.8 | - | 2.3 | 3.6 | - | - | - | - | - | 11.5 | - | - | |
| 26 | - | 66.3 | - | - | - | - | - | - | 8.5 | - | - | - | |
| 27 | - | 1.5 | - | 6.7 | - | 32.8 | - | - | - | - | 8.2 | - | |
| 28 | - | 22.5 | - | 0.7 | - | - | - | - | 25.8 | 2.3 | 22.6 | - | |
| 29 | 16.7 | - | - | - | - | - | - | - | - | 11.5 | - | - | |
| 30 | 11.2 | - | - | - | - | 92.3 | 79.8 | 3.2 | 1.2 | - | 31.8 | - | |
| 31 | - | - | - | - | - | - | 4.2 | - | - | 8.3 | - | 0.7 | |
| Rata-rata | 16.9 | 24.7 | 22.1 | 32.3 | 39.9 | 27.1 | 27.3 | 20.9 | 13.5 | 19.7 | 16.0 | 26.8 | |
| Maksimum | 48.8 | 88.5 | 45.7 | 91.2 | 105.7 | 92.3 | 79.8 | 48.5 | 27.6 | 88.5 | 45.3 | 82.5 | |
| Minimum | 1.8 | 1.5 | 2.3 | 0.7 | 2.5 | 0.7 | 4.2 | 1.5 | 1.2 | 0.7 | 0.6 | 0.7 | |
| Jml. Hari Hujan | 13 | 21 | 16 | 12 | 9 | 10 | 8 | 4 | 5 | 18 | 18 | 10 | |

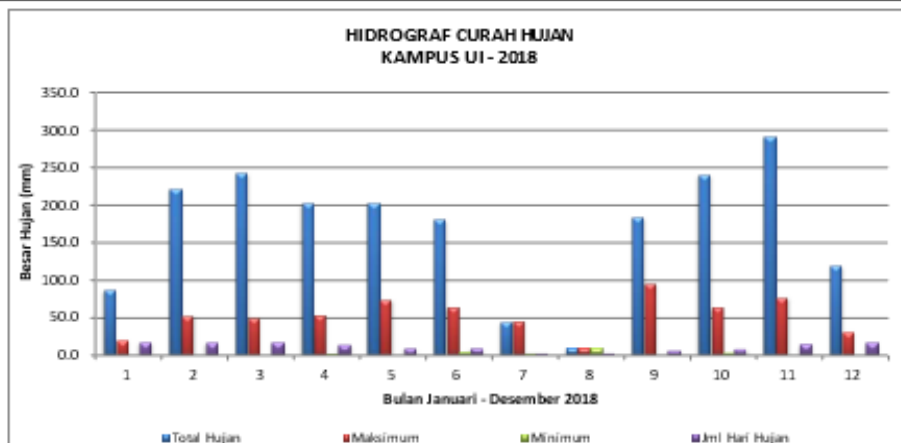


BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : KAMPUS UI
Tahun : 2018

| Tanggal | 2018 | | | | | | | | | | | | Keterangan |
|------------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|--------------|--------------|--------------|--------------|-------------------------|
| | Jan | Feb | Maret | April | Mei | Juni | Juli | Agst | Sep | Okt | Nop | Des | |
| 1 | - | - | - | 1.1 | - | 19.5 | - | - | - | - | - | 13 | |
| 2 | - | - | 27.7 | 22.4 | - | - | - | - | - | - | 0.7 | - | |
| 3 | - | 22.6 | 22.8 | - | - | - | - | - | 95.2 | - | - | 0.6 | |
| 4 | - | 1.2 | 18.9 | 48.3 | 49.8 | - | - | - | - | - | 2.7 | 7.8 | |
| 5 | - | 47.8 | - | 8.2 | - | - | - | - | - | - | - | 0.9 | |
| 6 | - | 8.8 | - | - | - | - | - | - | 0.6 | - | - | 3.5 | |
| 7 | - | 9.8 | - | 2.5 | - | - | - | - | - | - | 14.4 | 30.5 | |
| 8 | - | 7.3 | 3.8 | 3.8 | - | - | - | - | - | - | - | - | |
| 9 | - | 51.5 | - | - | 1.5 | - | - | - | - | - | 2.3 | - | |
| 10 | - | - | - | - | - | 5.1 | - | - | - | - | - | 12.2 | |
| 11 | - | - | 10.5 | - | - | - | - | 7.5 | - | - | 4.6 | 8.5 | |
| 12 | - | 3.5 | 12.5 | - | 2.8 | - | - | - | - | - | 19.5 | 19.5 | |
| 13 | 5.5 | 1.5 | - | - | - | 61.5 | - | - | - | - | - | 3.1 | |
| 14 | 4.4 | 7.6 | - | - | - | - | - | - | - | - | 2.2 | 13.5 | |
| 15 | - | - | 7.8 | - | - | 41.2 | - | - | - | - | - | - | |
| 16 | 19.4 | 29.6 | - | 6.5 | - | - | - | - | - | - | 33.5 | - | |
| 17 | - | - | 48.3 | 3.2 | - | - | - | - | - | - | - | - | |
| 18 | 6.2 | - | 3.2 | - | - | - | - | - | - | - | - | 1.5 | |
| 19 | 4.2 | 4.2 | 9.7 | - | - | - | - | - | - | 2.5 | - | - | |
| 20 | 1.5 | - | 5.7 | 11.2 | 30.1 | - | - | - | - | - | - | - | |
| 21 | 3.3 | - | 3.3 | - | 72.2 | - | - | - | 26.5 | 37.2 | 4.2 | - | |
| 22 | 9.4 | - | - | 2 | 0.7 | - | - | - | - | - | - | 0.7 | |
| 23 | 0.8 | - | 1.2 | 50.7 | 0.8 | - | 42.5 | - | - | - | 61.3 | - | |
| 24 | 0.8 | 0.6 | - | 23.5 | 43.5 | 3.5 | - | - | 58.2 | 50.5 | 66.5 | 0.4 | |
| 25 | 3.2 | - | 3.2 | - | - | 11.8 | - | - | 4.2 | - | - | 1.8 | |
| 26 | 2.4 | 2.7 | 49.5 | - | - | 13.4 | 1.8 | - | - | - | 22.8 | 1.6 | |
| 27 | 2.7 | 19.5 | 14.2 | 3.7 | - | 24.5 | - | - | - | 16.7 | 76.5 | - | |
| 28 | 1.5 | 2.9 | - | 28.8 | - | - | - | - | - | 19.5 | 40.5 | - | |
| 29 | 3.5 | - | 0.7 | - | - | - | - | - | - | 51.8 | 0.7 | - | |
| 30 | 14.6 | - | - | - | - | - | - | - | - | - | - | - | |
| 31 | 3 | - | - | - | - | - | - | - | - | - | - | - | |
| Total Hujan | 86.4 | 221.1 | 243.0 | 202.7 | 201.4 | 180.3 | 44.3 | 7.5 | 184.7 | 239.5 | 291.1 | 119.1 | Per Tahun 2021.1 |
| Makelimum | 19.4 | 51.5 | 49.5 | 50.7 | 72.2 | 61.5 | 42.5 | 7.5 | 95.2 | 61.3 | 76.5 | 30.5 | 95.2 |
| Minimum | 0.8 | 0.6 | 0.7 | 1.1 | 0.7 | 3.5 | 1.8 | 7.5 | 0.6 | 2.5 | 0.7 | 0.4 | 0.4 |
| Jml. Hari Hujan | 17 | 16 | 17 | 13 | 8 | 8 | 2 | 1 | 5 | 7 | 14 | 16 | 124 |

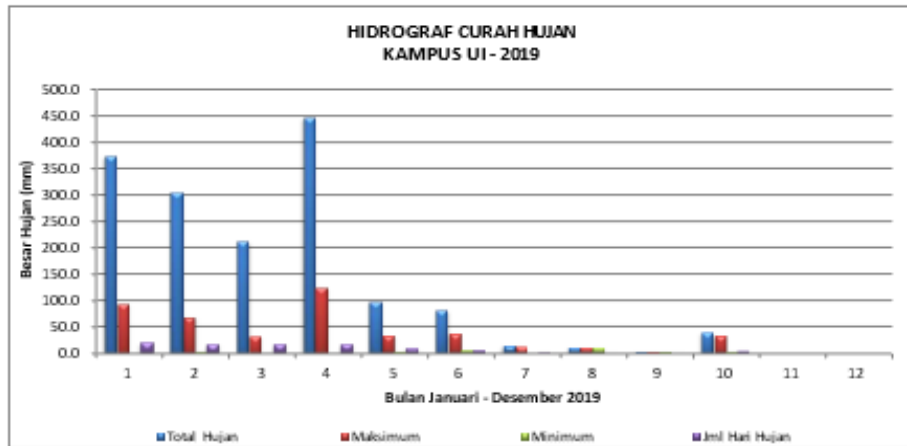


BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : Kampus UI
Tahun : 2019

| Tanggal | 201 | | | | | | | | | | | | Keterangan | | |
|------------------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|------------|------------------|---------------|
| | Jan | Feb | Maret | April | Mai | Juni | Juli | Agst | Sep | Okt | Nop | Des | | | |
| 1 | 8.2 | 17.5 | 33.2 | 56.4 | 4.5 | - | - | - | - | - | - | - | - | | |
| 2 | 1 | 3.6 | 16.4 | 39.1 | - | 7.7 | - | - | - | - | - | - | - | | |
| 3 | 1.5 | - | - | 10.3 | - | 11.8 | - | - | - | - | - | - | - | | |
| 4 | - | - | 17.5 | 14.6 | - | - | - | - | - | - | - | - | - | | |
| 5 | - | 3.4 | 9.5 | - | 7.4 | - | 0.7 | - | - | - | - | - | - | | |
| 6 | 7.2 | - | - | - | 11.2 | - | 11.8 | - | - | - | - | - | - | | |
| 7 | - | - | 10.8 | - | - | - | - | - | - | - | - | - | - | | |
| 8 | 3.2 | - | - | 25.6 | 3.2 | 22.5 | - | - | - | - | - | - | - | | |
| 9 | 17.8 | 3.5 | 7.2 | 12.7 | 15.3 | 34.6 | - | - | - | 30.5 | - | - | - | | |
| 10 | 24.2 | - | 1.5 | 13.6 | 31.2 | - | - | - | - | - | - | - | - | | |
| 11 | - | - | - | - | 16.4 | - | - | - | - | - | - | - | - | | |
| 12 | - | 16.5 | 1.2 | - | - | - | - | - | - | - | - | - | - | | |
| 13 | 1.3 | 6.4 | 5.5 | - | - | - | - | - | 1.5 | - | - | - | - | | |
| 14 | 33.4 | - | 29.5 | 10.8 | 6.4 | - | - | - | - | - | - | - | - | | |
| 15 | - | - | - | - | - | 4.7 | - | - | - | - | - | - | - | | |
| 16 | - | 4.7 | 5.2 | 1.2 | - | - | - | - | 1.3 | 1.4 | - | - | - | | |
| 17 | - | 66 | - | 38.2 | 1.7 | - | - | - | - | - | - | - | - | | |
| 18 | - | 3 | - | 4.8 | - | - | - | - | - | - | - | - | - | | |
| 19 | - | - | 9.4 | 26.7 | - | - | - | - | - | - | - | - | - | | |
| 20 | 3.5 | 4.9 | - | - | - | - | - | - | - | - | - | - | - | | |
| 21 | - | 63.4 | - | - | - | - | - | - | - | - | - | - | - | | |
| 22 | 50.2 | - | 9.2 | 3.6 | - | - | - | - | - | - | - | - | - | | |
| 23 | 58.5 | 45.5 | 1.4 | - | - | - | - | - | - | - | - | - | - | | |
| 24 | 14.2 | 2.3 | - | - | - | - | - | - | - | - | - | - | - | | |
| 25 | 26.5 | 34.6 | - | 8.2 | - | - | - | - | - | - | - | - | - | | |
| 26 | 11.7 | 24.8 | - | 4.6 | - | - | - | - | - | - | - | - | - | | |
| 27 | 1.9 | 2.5 | 28.4 | 38.8 | - | - | - | - | - | - | - | - | - | | |
| 28 | 10.3 | - | 20.2 | - | - | - | - | - | - | 3.2 | - | - | - | | |
| 29 | 9.5 | 2.8 | 6.8 | 122.6 | - | - | - | 8.8 | - | 5.1 | - | - | - | | |
| 30 | 91.5 | - | - | 14.5 | - | - | - | - | - | - | - | - | - | | |
| 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Total Hujan | 375.6 | 305.4 | 212.9 | 446.3 | 97.3 | 81.3 | 12.5 | 8.8 | 1.5 | 40.2 | 0.0 | 0.0 | 0.0 | Per Tahun | 1581.8 |
| Maksimum | 91.5 | 66.0 | 33.2 | 122.6 | 31.2 | 34.6 | 11.8 | 8.8 | 1.5 | 30.5 | 0.0 | 0.0 | 0.0 | | 122.6 |
| Minimum | 1.0 | 2.3 | 1.2 | 1.2 | 1.7 | 4.7 | 0.7 | 8.8 | 1.5 | 1.4 | 0.0 | 0.0 | 0.0 | | 0 |
| Jml. Hari Hujan | 19 | 16 | 17 | 18 | 9 | 5 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | | 92 |

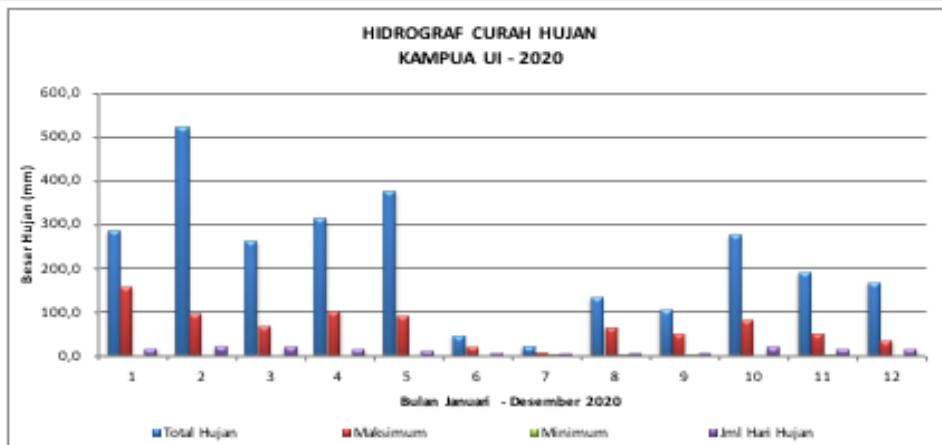


BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : Kampus UI
Tahun : 2020

| Tanggal | 2020 | | | | | | | | | | | | Keterangan |
|------------------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| | Jan | Feb | Maret | April | Mei | Juni | Juli | Agst | Sep | Okt | Nop | Dec | |
| 1 | 155,2 | 19,7 | 30,2 | - | 8,4 | 7,5 | - | - | - | - | 2,8 | - | |
| 2 | 8,5 | 7,8 | 29,8 | - | 1,1 | - | - | - | - | - | 50,3 | - | |
| 3 | 0,5 | 28,5 | - | - | - | - | 4,9 | - | - | 8,8 | - | 11,5 | |
| 4 | - | 13,2 | - | 0,4 | - | 1,2 | 3,5 | - | - | 2,2 | 2,7 | 3,3 | |
| 5 | - | - | 5,7 | - | - | - | - | - | - | 81,5 | - | 10,4 | |
| 6 | 6,5 | 1,3 | - | 77,5 | - | 1,3 | - | - | - | - | 7,9 | - | |
| 7 | - | - | - | 0 | 88,9 | - | - | - | - | - | 12,5 | 35,5 | |
| 8 | - | 49,2 | - | - | - | - | 2,9 | - | - | - | - | 14,2 | |
| 9 | 34,5 | 18,2 | - | - | 1,5 | - | - | 13,5 | - | 6,1 | - | - | |
| 10 | 12,2 | - | - | 10,2 | 28,5 | 21,7 | - | - | - | - | - | 9,7 | |
| 11 | - | - | - | 37,4 | 21,5 | - | - | - | - | - | 10,7 | 19,1 | |
| 12 | 3,1 | - | 1,5 | 11,2 | 25,5 | 4,8 | - | 15,8 | - | - | - | - | |
| 13 | - | - | 14,5 | 1,1 | - | - | - | - | - | - | 1,8 | - | |
| 14 | - | 9,5 | - | 10,4 | - | - | - | 63,5 | 3,4 | 9,2 | - | 0,9 | |
| 15 | - | 29,5 | 18,7 | 52,5 | - | - | 6,5 | 33,8 | 50,4 | 2,8 | - | - | |
| 16 | - | 23,3 | 5,2 | - | - | - | - | - | 25,6 | - | - | - | |
| 17 | 4,3 | 31,2 | 69,2 | - | - | 0,4 | - | - | - | 16,7 | 12,2 | 29,6 | |
| 18 | - | - | - | 1,1 | - | - | - | - | - | 25,3 | - | - | |
| 19 | - | - | - | - | 50,3 | - | - | 5,2 | - | 12,4 | 10,2 | - | |
| 20 | - | 17,8 | 10,5 | - | - | 5,8 | - | 2,7 | - | - | - | - | |
| 21 | 2,1 | 23,3 | 9,6 | - | 37,4 | - | - | - | 8,6 | 2,5 | 10,8 | 26,6 | |
| 22 | - | 58,2 | 3,2 | - | - | - | - | - | 13,8 | 3,5 | 35,6 | - | |
| 23 | - | 19,8 | 1,2 | - | 12,5 | 2,6 | - | - | 2,2 | - | - | - | |
| 24 | 1,5 | 25,5 | 10,3 | 3,5 | - | - | - | - | - | 0,8 | - | - | |
| 25 | 4,3 | 94,5 | 1,8 | - | - | - | - | - | - | 2 | 14,8 | 0,7 | |
| 26 | 15,3 | 5,8 | 0,5 | - | - | - | - | - | - | 5,2 | 10,3 | - | |
| 27 | 21,5 | 25,2 | 3,8 | 100,8 | - | - | - | - | - | 37,5 | - | - | |
| 28 | - | 2,2 | - | 5,8 | - | - | - | - | - | 16,3 | 2,8 | 2,7 | |
| 29 | - | 15,3 | 37,7 | 1,5 | - | - | - | - | - | 43,5 | - | - | |
| 30 | 12,8 | - | 0,5 | 1,2 | 60,2 | - | - | - | - | 0,9 | 5,8 | 0,8 | |
| 31 | 0,6 | - | 6,7 | - | 40,5 | - | - | - | - | - | - | - | |
| Total Hujan | 282,8 | 618,8 | 280,4 | 313,6 | 378,8 | 46,3 | 17,8 | 134,6 | 104,0 | 277,2 | 181,2 | 185,0 | 2888,8 |
| Maksimum | 155,2 | 94,5 | 88,2 | 100,8 | 88,9 | 21,7 | 8,5 | 83,5 | 60,4 | 31,5 | 60,3 | 35,5 | 165,2 |
| Minimum | 0,5 | 1,3 | 0,5 | 0,0 | 1,1 | 0,4 | 2,8 | 2,7 | 2,2 | 0,8 | 1,8 | 0,7 | 0 |
| Jml. Hari Hujan | 16 | 21 | 19 | 13 | 12 | 3 | 4 | 8 | 8 | 12 | 16 | 13 | 160 |

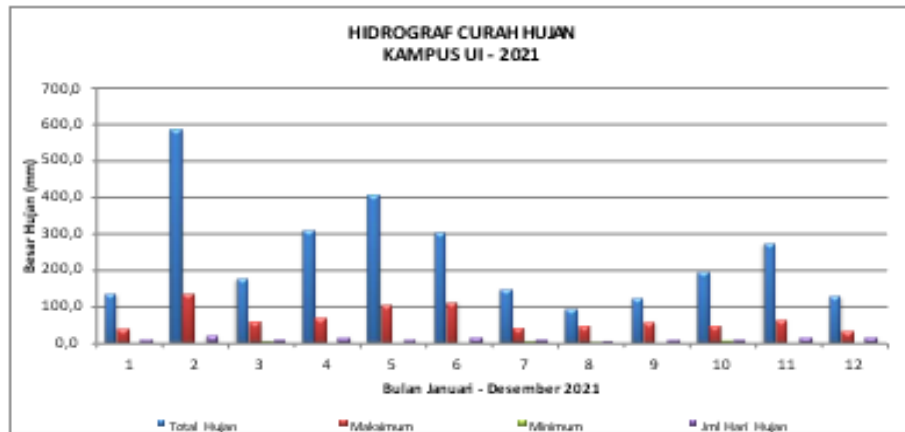


BALAI BESAR WILAYAH SUNGAI CILWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : Kampus UI
Tahun : 2021

| Tanggal | 2021 | | | | | | | | | | | | Keberangan |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|------------------|
| | Jan | Feb | Maret | April | Mai | Juni | Juli | Agst | Sep | Okt | Nop | Dec | |
| 1 | - | - | - | - | - | - | 20,2 | 41,5 | - | 25,8 | - | - | |
| 2 | - | 16,4 | - | - | 11,8 | - | 18,3 | - | - | - | 3,4 | - | |
| 3 | - | 33,7 | 8,8 | 49,3 | - | - | - | - | - | - | 15,7 | - | |
| 4 | - | 5,8 | - | - | 22,7 | 5,4 | - | - | - | - | 35,2 | - | |
| 5 | - | 45,6 | 15,3 | - | 101,3 | 0,6 | 38,4 | - | - | - | - | 1,1 | |
| 6 | 26,3 | 24,2 | 23,8 | 1,3 | 13,5 | 45,8 | - | - | - | - | - | 30,2 | |
| 7 | 19,6 | 19,2 | 25,5 | 15,6 | - | - | 3,5 | - | - | - | - | 3,2 | |
| 8 | - | 68,5 | 12,4 | - | 38,3 | 0,7 | - | - | 7,3 | - | 64,5 | - | |
| 9 | 15,5 | 37,6 | - | - | - | 4,2 | - | - | 13,5 | - | - | - | |
| 10 | 7,8 | 10,6 | 4,7 | - | - | - | - | 22,8 | - | - | - | 4,5 | |
| 11 | - | 2,2 | - | - | - | 14,2 | - | - | - | - | 2,4 | - | |
| 12 | 13,3 | - | - | 37,4 | - | 18,5 | 9,8 | - | - | - | 41,5 | - | |
| 13 | - | 1,6 | - | 14,3 | - | 1,4 | - | - | - | - | 4,2 | - | |
| 14 | - | 8,5 | - | 31,7 | - | - | - | - | 15,2 | 26,3 | 36,5 | 4,8 | |
| 15 | - | - | - | 4,7 | - | - | - | - | 15,6 | - | - | 11,5 | |
| 16 | - | 18,5 | - | 20,6 | - | 10,3 | - | - | - | - | - | 18,6 | |
| 17 | - | 22,6 | - | - | 1,2 | 23,4 | - | - | - | - | - | - | |
| 18 | - | - | - | 21,2 | 36,5 | 7,5 | - | - | - | 5,5 | - | 8,8 | |
| 19 | 4,2 | 89,4 | - | - | - | 1,2 | - | - | - | 11,6 | - | - | |
| 20 | 38,6 | 132,6 | - | 14,2 | - | - | 11,5 | 2,5 | - | 33,4 | - | 1,2 | |
| 21 | 4,6 | 35,8 | - | - | - | 30,2 | 10,3 | - | - | 16,2 | 2,2 | 5,8 | |
| 22 | 3,6 | - | 13,6 | - | 97,3 | 112,6 | - | - | 2,2 | - | - | 1,7 | |
| 23 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 24 | 1,2 | - | - | 13,6 | 5,1 | - | 3,7 | - | - | - | - | 5,2 | |
| 25 | - | 0,8 | - | - | 59,1 | - | - | 27,4 | 14,6 | - | 4,5 | - | |
| 26 | - | 10,6 | - | - | - | - | - | - | - | - | 41 | 5,2 | |
| 27 | - | - | 17,5 | - | - | - | - | - | - | - | 4,8 | - | |
| 28 | 2,3 | - | - | 3,4 | - | 27,5 | - | - | 55,7 | 44,7 | 4,2 | 19,2 | |
| 29 | - | - | 53,8 | 65,6 | - | - | - | - | - | 26,2 | 4,6 | - | |
| 30 | - | - | - | 14,5 | 19,2 | - | - | - | - | - | 10,4 | 6,2 | |
| 31 | - | - | - | - | - | - | 29,5 | - | - | 5,5 | - | - | |
| Total Hujan | 137,0 | 584,2 | 175,4 | 307,4 | 408,0 | 303,5 | 145,2 | 84,2 | 124,1 | 185,2 | 275,1 | 127,2 | Per Tahun |
| Maksimum | 38,8 | 132,8 | 53,8 | 85,8 | 101,3 | 112,8 | 38,4 | 41,6 | 55,7 | 44,7 | 84,6 | 30,2 | 2874,5 |
| Minimum | 1,2 | 0,8 | 4,7 | 1,2 | 1,2 | 0,8 | 5,5 | 2,5 | 2,2 | 5,5 | 2,2 | 1,1 | 132,8 |
| Jml. Hari Hujan | 11 | 19 | 9 | 14 | 11 | 16 | 9 | 4 | 7 | 9 | 16 | 16 | 0,8 |
| | | | | | | | | | | | | | 133 |

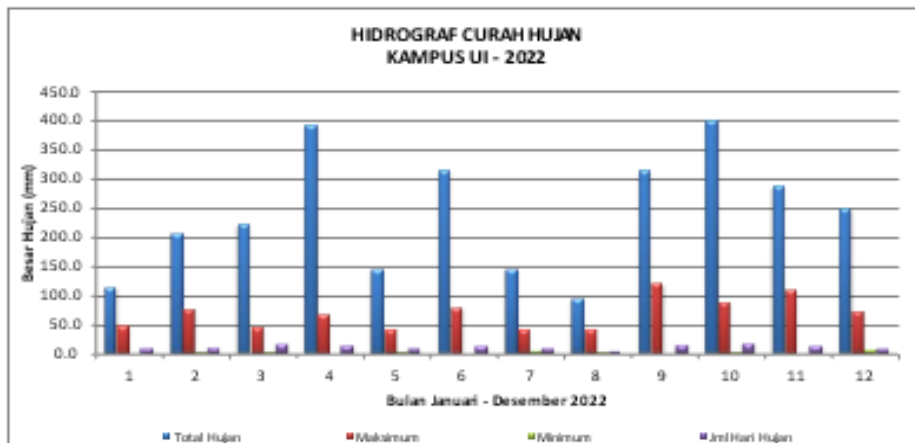


BALAI BESAR WILAYAH SUNGAI CILIWUNG CISADANE

HUJAN RATA-RATA HARIAN

Lokasi : Kampus UI
Tahun : 2022

| Tanggal | 2022 | | | | | | | | | | | | Keterangan |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|---------------|
| | Jan | Feb | Maret | April | Mei | Juni | Juli | Agst | Sep | Okt | Nop | Dec | |
| 1 | - | - | 19.3 | 5.2 | - | 56.8 | 20.2 | 41.5 | - | - | - | 29.8 | |
| 2 | - | 75.5 | 9.6 | - | - | - | 18.3 | - | - | 4.8 | - | 6.7 | |
| 3 | - | - | - | - | 14.5 | 38.7 | - | - | 15.5 | 1.6 | 12.5 | - | |
| 4 | - | - | - | 0.5 | - | - | - | - | - | 15.4 | - | 71.2 | |
| 5 | - | 11.4 | - | - | - | - | 38.4 | - | - | 73.4 | 108.2 | - | |
| 6 | - | - | 4.5 | 16.5 | - | - | - | - | - | - | 2.3 | 29.6 | |
| 7 | 1.2 | 6.1 | - | 31.4 | - | 45.5 | 3.5 | - | 3.5 | 12.8 | 4.5 | 11.2 | |
| 8 | - | 20.7 | - | - | - | - | - | - | 1.5 | 10.9 | 3.2 | - | |
| 9 | - | - | 9.3 | - | - | 9.5 | - | - | 2.5 | - | - | - | |
| 10 | - | - | - | 20.7 | 7.3 | 18.8 | - | 22.8 | 32.5 | - | - | 14.2 | |
| 11 | 30.4 | - | 18.5 | - | 38.5 | - | - | - | 31.5 | - | - | - | |
| 12 | 11.3 | - | 3.6 | 2.2 | - | - | 9.8 | - | 16.5 | 13.4 | - | - | |
| 13 | 47.2 | - | - | 48.5 | - | 18.6 | - | - | - | 7.5 | 34.8 | 6.2 | |
| 14 | - | 16.8 | 3.4 | 66.4 | - | 77.6 | - | - | 5.8 | 36.5 | - | - | |
| 15 | - | - | 28.5 | - | - | - | - | - | - | - | 24.4 | - | |
| 16 | - | - | 10.3 | - | 5.8 | 8.6 | - | - | - | 86.2 | - | - | |
| 17 | - | 58.4 | 3.2 | 35.5 | 2.5 | - | - | - | - | - | 13.8 | 52.8 | |
| 18 | - | - | 42.5 | - | 38.6 | - | - | - | 4.5 | 14.3 | 8.4 | - | |
| 19 | 2.3 | - | 42.5 | 34.5 | - | - | - | - | - | 6.6 | - | - | |
| 20 | 4.5 | - | 2.3 | 31.5 | - | - | 11.5 | 2.5 | 9.5 | 47.8 | - | 25.5 | |
| 21 | - | 2.2 | - | - | 9.4 | - | 10.3 | - | 54.5 | 26.7 | - | - | |
| 22 | - | - | - | - | - | 9.2 | - | - | 4.8 | - | - | - | |
| 23 | 1.2 | - | - | - | - | - | - | - | 11.8 | 25.4 | - | - | |
| 24 | - | - | - | 19.7 | - | - | 3.7 | - | 119.4 | - | - | - | |
| 25 | - | - | - | - | - | 8.7 | - | 27.4 | - | - | - | - | |
| 26 | - | 2.8 | - | 26.5 | - | - | - | - | - | 16.5 | 1.3 | - | |
| 27 | 10.2 | 2.2 | 6.6 | - | - | 6.4 | - | - | 0.8 | - | - | - | |
| 28 | - | 9.8 | 16.7 | 53.5 | 12.3 | 0 | - | - | - | - | 2.5 | - | |
| 29 | - | - | - | - | 14.5 | 16.2 | - | - | - | - | 72.8 | - | |
| 30 | 6.2 | - | - | - | - | - | - | - | - | - | - | - | |
| 31 | - | - | - | - | - | - | 29.5 | - | - | - | - | - | |
| Total Hujan | 114.6 | 206.9 | 220.8 | 382.8 | 143.4 | 314.8 | 146.2 | 84.2 | 314.8 | 388.3 | 233.7 | 247.2 | 2881.6 |
| Maksimum | 47.2 | 75.5 | 42.5 | 68.4 | 38.8 | 77.8 | 38.4 | 41.5 | 119.4 | 86.2 | 108.2 | 71.2 | 119.4 |
| Minimum | 1.2 | 2.2 | 2.3 | 0.6 | 2.6 | 0.0 | 3.6 | 2.6 | 0.8 | 1.8 | 1.3 | 8.2 | 0 |
| Jml. Hari Hujan | 8 | 10 | 16 | 14 | 8 | 12 | 8 | 4 | 16 | 18 | 12 | 9 | 134 |




DATA CURAH HUJAN (mm) TAHUN 2023

| | | | |
|----------------|--|--------------------|--------------------------|
| Nama Pos | : Kampus UI | Provinsi | : Jawa Barat |
| Nomor Pos | : - | Kabupaten | : Depok |
| Jenis Alat | : Manual, ARR, Telemetri | Kecamatan | : Pondok Cina |
| Koordinat | : 06° 21' 40.3" LS - 106° 49' 25.5" BT | Desa/Kampung | : Kukusan |
| Elevasi | : 81 mdpl | Tahun Pendirian | : 2003 |
| Wilayah Sungai | : Ciliwung Cisadane | Pengelola | : BBWS Ciliwung Cisadane |
| D A S | : Krukut | Hasil Kendall Mutu | : Baik |

| TANGGAL | BULAN | | | | | | | | | | | |
|---------------------------|---------------------------|-------|-------|--------------------------|-------|-------|-----------------------|------|-----|------|-------|-------|
| | Jan | Feb | Mar | Apr | Mei | Jun | Jul | Agst | Sep | Oktr | Nov | Des |
| 1 | 8.6 | - | 36.4 | - | 1.1 | - | - | - | - | - | - | 10.5 |
| 2 | 13.8 | 6.2 | 8.9 | - | - | - | - | - | - | - | - | - |
| 3 | 13.5 | 20.2 | 3.2 | - | 0.8 | - | - | - | - | - | - | 13.5 |
| 4 | 0.7 | - | - | - | 38.7 | - | 3.5 | - | - | - | - | 37.2 |
| 5 | 21.9 | - | 1.2 | - | - | - | - | - | - | - | 78.6 | - |
| 6 | - | - | - | - | 12.4 | 17.5 | - | - | - | - | 7.4 | - |
| 7 | - | - | - | - | - | 62.5 | - | - | - | - | - | 86.5 |
| 8 | - | 5.5 | - | - | 1.2 | - | 5.7 | - | - | - | - | - |
| 9 | - | - | - | - | 24.1 | - | 3.5 | - | - | - | - | - |
| 10 | - | 1.1 | - | - | - | - | - | - | - | - | - | 17.4 |
| 11 | 5.4 | - | 9.8 | - | - | - | - | - | - | - | 10.5 | - |
| 12 | - | 54.8 | - | - | - | - | - | - | - | - | - | - |
| 13 | - | 7.2 | 9.5 | - | - | - | - | - | - | - | - | - |
| 14 | 46.3 | 2.2 | - | - | 6.3 | - | - | - | - | - | - | - |
| 15 | 2.8 | - | 36.3 | - | - | 4.8 | - | - | - | - | 1.6 | - |
| 16 | - | - | 3.2 | - | - | - | 2.2 | - | - | - | 48.2 | - |
| 17 | - | - | - | - | - | 18.5 | - | - | - | - | 5.4 | - |
| 18 | - | - | - | - | - | - | - | - | - | - | 1.4 | - |
| 19 | 46.8 | - | - | - | - | - | - | - | - | - | 8.9 | - |
| 20 | 6.5 | 38.2 | - | - | - | 29.5 | - | - | - | - | 12.3 | - |
| 21 | - | 2.2 | 27.5 | - | 0 | - | - | - | - | - | - | - |
| 22 | - | 2.5 | - | - | 5.4 | 0.5 | - | - | - | - | 1.2 | - |
| 23 | - | 32.5 | - | - | 34.2 | - | - | - | - | - | - | - |
| 24 | - | 27.3 | - | - | 5.9 | - | - | - | - | - | 31.8 | - |
| 25 | - | 42.2 | - | - | - | 2.8 | - | - | - | 38.7 | - | 77.6 |
| 26 | 2.9 | 6.8 | - | - | - | 7.3 | 26.8 | - | - | - | 6.4 | - |
| 27 | - | 66.5 | 29.5 | - | - | - | - | - | - | - | 16.1 | - |
| 28 | - | 5.5 | - | - | - | - | - | 25.1 | - | - | - | 18.7 |
| 29 | 5.8 | - | - | - | 8.2 | - | - | - | - | - | 12.5 | 16.5 |
| 30 | - | - | - | - | - | 17.6 | - | - | - | - | - | 40.7 |
| 31 | - | - | 11.5 | - | 2.5 | - | - | - | - | - | - | - |
| Hujan Maks | 46.8 | 66.5 | 36.4 | - | 38.7 | 62.5 | 26.8 | 25.1 | - | 38.7 | 78.6 | 86.5 |
| Jml. Curah Hujan | 175.0 | 320.9 | 177.0 | - | 140.8 | 161.0 | 41.7 | 25.1 | - | 38.7 | 242.3 | 318.6 |
| Jml. Hari Hujan | 12 | 16 | 11 | - | 12 | 9 | 5 | 1 | - | 1 | 14 | 9 |
| Jml. data (1-15) | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Jml. Hujan (1-15) | 113.0 | 97.2 | 105.3 | - | 84.8 | 84.8 | 12.7 | - | - | - | 98.1 | 165.1 |
| Jml. Data (16-31) | 16 | 13 | 16 | 15 | 16 | 15 | 16 | 16 | 15 | 16 | 15 | 16 |
| Jml. Hujan (16-31) | 62.0 | 223.7 | 71.7 | - | 56.2 | 76.2 | 29.0 | 25.1 | - | 38.7 | 144.2 | 153.5 |
| Tahunan | Jumlah Curah Hujan | | | Jumlah Hari Hujan | | | Hujan Maksimum | | | | | |
| | 1641.1 | | | 90 | | | 86.5 #REF! | | | | | |

Catatan : - : tidak ada hujan ; 0 : hujan kurang dari 0.5 mm X : tidak ada data. ██████████ : data meragukan ; ▨ : data tidak realistis.

Lampiran D Formulir Revisi

| | | |
|---|-------------------------------------|----------------------|
|  <p>Universitas Pembangunan Jaya</p> | FORMULIR REVISI SKRIPSI / TA | SPT-I/04/SOP-06/F-05 |
| | | |

Nama Mahasiswa : Aldi Triatmaja Putra

Prodi/NIM : Teknik Sipil / 2020091002

Judul Skripsi/TA : ANALISIS KINERJA SISTEM DRAINASE PADA PERUMAHAN PAMULANG PERMAI 2

Dosen Pembimbing : 1. Prof. Dr. Frederik Joseph Putuhena
: 2.

Dosen Penguji : 1. Dr. Tri Nugraha Adikesuma, S.T., M.T.
: 2. Dr. Ir. Lukas Beladi Sihombing, MT., MPU., M.ASCE, S.T., M.T
: 3.

Jadwal Sidang : Tempat : R. Papan FTD 4F-5 Hari/Tanggal: Kamis 4 Juli 2024

Revisi yang dilakukan :

1. Perubahan zona lahan, disebutkan pada peta apa. Apakah lansat atau yang lain.
2. GIS dari HP sempat dihalibrasi tidak?
3. Nilai NSE bisa didapat lebih mendetail? atau tidak?

Tangerang Selatan, 4 Juli 2024


Dosen Penguji



Universitas
Pembangunan Jaya

FORMULIR REVISI SKRIPSI / TA

SPT-1/04/SOP-06/F-05

Nama Mahasiswa : Aldi Triatmaja Putra

Prodi/NIM : Teknik Sipil / 2020091002

Judul Skripsi/TA : ANALISIS KINERJA SISTEM DRAINASE PADA PERUMAHAN PAMULANG PERMAI 2

Dosen Pembimbing : ^{1.} Prof. Dr. Frederik Joseph Putuhena
: 2.

Dosen Penguji : ^{1.} Dr. Tri Nugraha Adikesuma, S.T., M.T.
: ^{2.} Dr. Ir. Lukas Beladi Sihombing, MT., MPU., M.ASCE, S.T., M.T
: 3.

Jadwal Sidang : Tempat : R-Rapat FTD Lt.5 Hari/Tanggal: Kamis, 4 Juli 2024

Revisi yang dilakukan :

Sudah diperbaiki dengan menambahkan alternatif-alternatif lainnya untuk meningkatkan efisiensi saluran drainase. Selama sidang terungkap bahwa ada beberapa alternatif yg anda coba di simulasi, tapi belum dimasukkan ke dalam laporan.

Tangerang Selatan, 4 Juli 2024

Dosen Penguji

| | | |
|--|-------------------------------------|----------------------|
|  Universitas Pembangunan Jaya | FORMULIR REVISI SKRIPSI / TA | SPT-1/04/SOP-06/F-05 |
| | | |

Nama Mahasiswa : Aldi Triatmaja Putra

Prodi/NIM : Teknik Sipil / 2020091002

Judul Skripsi/TA : ANALISIS KINERJA SISTEM DRAINASE PADA PERUMAHAN PAMULANG PERMAI 2

Dosen Pembimbing : 1. Prof. Dr. Frederik Joseph Putuhena
: 2.

Dosen Penguji : 1. Dr. Tri Nugraha Adikesuma, S.T., M.T.
: 2. Dr. Ir. Lukas Beladi Sihombing, MT., MPU., M.ASCE, S.T., M.T.
: 3.

Jadwal Sidang : Tempat : R. Pape AFD U.S Hari/Tanggal: Kamis, 4 Juli 2024

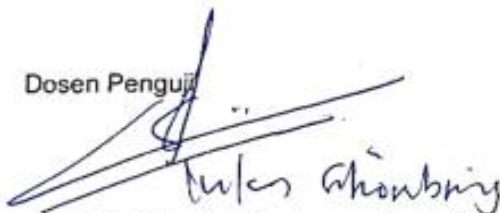
Revisi yang dilakukan :

- Buat foto existing di lapangan dan foto/pengambilan
7 mengetahui secara lebih masalah.

- Laporan skematik & panduan, Abaikan/petulis
Sumber di mana.

Tangerang Selatan, 4 Juli 2024

Dosen Penguji



Lampiran E Rekap Bimbingan Skripsi



UNIVERSITAS PEMBANGUNAN JAYA

Jalan Cendrawasih Raya Blok B7/P, Sawah Baru, Kec. Ciputat, Kota Tangerang Selatan, Banten 15413
Website : www.upj.ac.id / e-Mail : info@upj.ac.id (mailto:info@upj.ac.id) / Telepon : 021 - 745555

REKAP PERCAKAPAN BIMBINGAN

Judul Tugas Akhir : Analisis Kinerja Sistem Drainase Pada Perumahan Pamulang Permal 2

Seal / Bahasan : ke-1 / 1. Membahas pergantian judul namun dengan topik yang masih sama 2. Membahas segala saran dan revisi dari para penguji setelah seminar proposal 3. Penyetujuan atas saran pembimbing dan memasuki revisi yaitu penambahan teori genangan, manajemen sistem drainase, analisis fenomena banjir atau genangan dan lainnya.

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Mahasiswa

Kamis, 27 Juni 2024, 02:34:41

1. Membahas pergantian judul namun dengan topik yang masih sama 2. Membahas segala saran dan revisi dari para penguji setelah seminar proposal 3. Penyetujuan atas saran pembimbing dan memasuki revisi yaitu penambahan teori genangan

Seal / Bahasan : ke-2 / Melaporkan hasil kerja survei yang meliputi: -Pengukuran dimensi drainase -penggunaan alat bantu pada saat survei - pengukuran debit air kotor dan debit banjir untuk kalibrasi model -tahapan tahapan survei yang dilakukan -di Melaporkan hasil analisis perubahan tata guna lahan serta analisis daerah Impervious Melaporkan hasil klasifikasi masalah dengan analisis fenomena banjir atau genangan pada lokasi penelitian

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan

Seal / Bahasan : ke-3 / penyerahan hasil kerja penulisan sementara untuk evaluasi yang meliputi Melaporkan hasil kerja survei yang meliputi: Melaporkan pengukuran dimensi drainase Melaporkan hasil analisis perubahan tata guna lahan serta analisis daerah Impervious Melaporkan hasil klasifikasi masalah dengan analisis fenomena banjir atau genangan pada lokasi penelitian pembahasan untuk target selanjutnya yaitu pembahasan mengenai revisi dan juga pengolahan data hidrologi

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan

Seal / Bahasan : ke-4 / Revisi dan Pembahasan Analisis Perubahan Penggunaan Lahan Metode Citra Satellite

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan

Seal / Bahasan : ke-5 / Bimbingan Data Debit Air Kotor, Penulisan Penggunaan Bantuan Aplikasi Sebagai Alat Survei Dan Penulisan Sementara

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan

Seal / Bahasan : ke-6 / Bimbingan Analisis Hidrologi dan Penyerahan Penulisan Sementara

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan

Seel / Bahasan : ke-7 / Bimbingan Analisis Hidrologi, Kurva IDF, Heterograf Hujan Rencana

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan

Seel / Bahasan : ke-8 / Bimbingan Pemodelan dan Kalibrasi Model SWMM 5.2 Dengan Metode Nash-Sutcliffe Efficiency

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan

Seel / Bahasan : ke-9 / Bimbingan Analisis Kinerja Sistem Drainase Berdasarkan Pemodelan SWMM 5.2 dan Kolam Retensi Sebagai Evaluasi Model SWMM 5.2

Mahasiswa : 2020091002 - ALDI TRIATMAJA PUTRA **Dosen Pembimbing** : 08.0219.009 - Prof., Ir. F.J. Putuhena, M.Sc., Ph.D.

Tidak ada data percakapan