

1. Implement water conservation

Water Conservation Implementation Support at FISIP UI :

- Has one infiltration well (1 meter in diameter and 5 meters deep) in the garden area of Gedung Nusantara I
- Making infiltration holes for the Biopori system in all areas of the faculty with a distance of 3 to 5 meters and a depth of 1 meter.
- Use of paving blocks to replace concrete blocks in the car parking area
- Use of Grassblock at Tunas Bangsa Park and Bhineka Park.
- Processing of liquid waste in the canteen with the Eco Grease trap system.
- Maintain large trees such as banyan trees, manga, matoa, and other types of forest trees that can hold and absorb a lot of water.
- Use of Groundtank storage for pipe-based water (PDAM) E, H, Musholla building.
- Ground water storage with Toren Tank
- Installing water measuring devices/meters on each water pump machine
- Use of automatic sensor faucets and autoflush faucets
- Applying an auto flush system at the closet
- Reusing leftover ablution water for watering plants.
- Harvesting rainwater and tamping it in a groundtank tub
- Rain catchment for outdoor garden fountains
- Utilizing river water overflowing from Lake Ylang for garden watering



Utilization of rainwater for garden fountains



Water storage with a toren tank



Use of automatic faucets on pipe-based ground water tanks (PDAMs)





Pipeline for harvesting rainwater (Rain harvesting)



Infiltration wells and storage of remaining ablution water and rain water

2. Recycled water utilization program

The water recycling program within FISIP UI utilizes river water sources, rain harvesting and remaining ablution water which is collected and used to water plants.

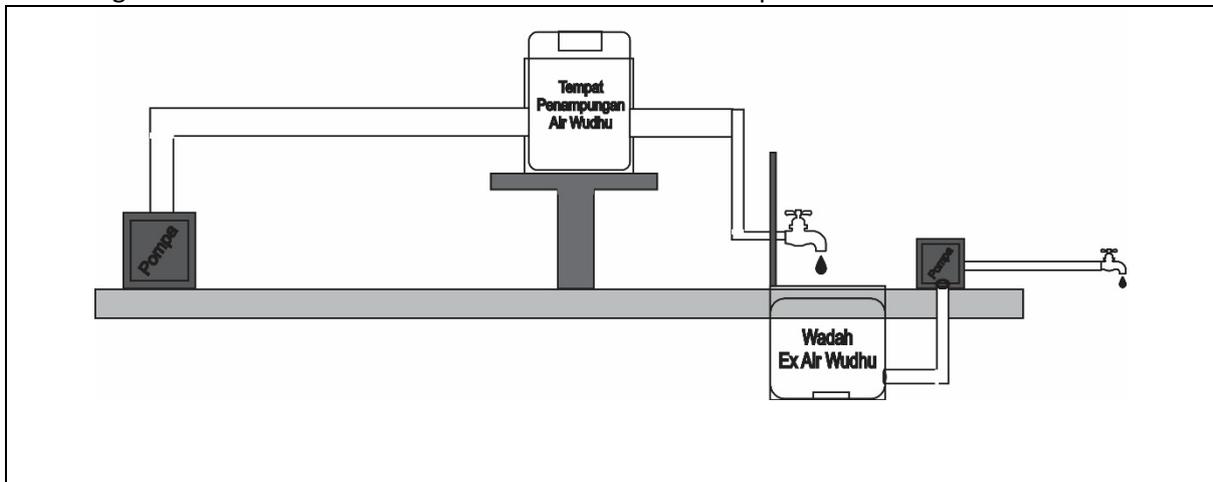
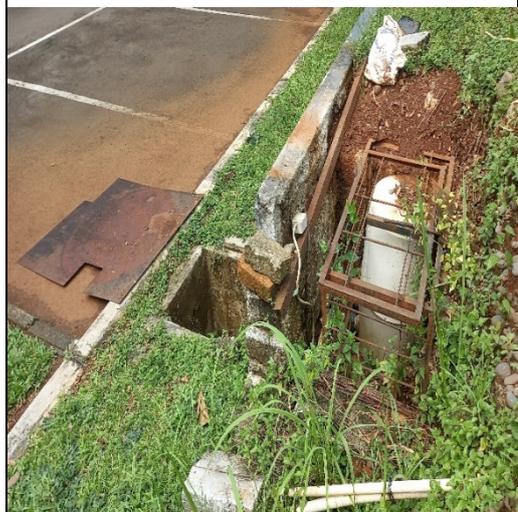




Image of rainwater harvesting for watering plants



3. Use of water-saving equipment

- Use of water saving automatic dish washing machines in the Balsam Baru canteen
- Use of water-saving equipment Closet Eco Flush
- Use of automatic Sensor Sink Faucets to save water.
- Use of Automatic Urinal Push water-saving equipment
- Use of the foot pedal faucet in the handwashing sink
- Use of automatic taps on PDAM water storage groundtanks
- Use of water meter in every water machine
- Etc.



4. Targeting the use of groundwater and pipe-based water (PDAM) with water meter gauges

- Water Tank Capacity at FISIP UI

| DATA KAPASITAS PENAMPUNGAN AIR FISIP UI | | | | |
|---|------------------------|------------------|--------|------------------------|
| No | Nama Gedung | Kapasitas Tangki | Jumlah | Total Kapasitas Tangki |
| 1 | A | 800 | 2 | 1600 |
| 2 | B | 2000 | 2 | 4000 |
| 3 | D | 800 | 2 | 1600 |
| 4 | E dan Lab Audio Visual | 800 | 2 | 1600 |
| 5 | F | 1000 | 1 | 1000 |
| 6 | H | 4000 | 1 | 4000 |
| 7 | Koendjaraningrat | 1000 | 2 | 2000 |
| 8 | Komunikasi | 3000 | 1 | 3000 |

| | | | | |
|---------------|---------------|--------------|-----------|--------------|
| 9 | Nusantara 1 | 1000 | 1 | 1000 |
| 10 | Nusantara 2 | 1000 | 1 | 1000 |
| 11 | Kantin Takoru | 800 | 2 | 1600 |
| 12 | Kantin Balsem | 800 | 1 | 800 |
| 13 | Musholla | 1000 | 2 | 2000 |
| Jumlah | | 18000 | 20 | 25200 |

- Total volume of average water use per month (in Liters/month)

| No | Nama Gedung | Rata-Rata Penggunaan Air Sebulan (Dalam Liter) | | | | | | | | Jumlah (Liter) |
|------------------------|-------------------|--|----------------|---------------|---------------|---------------|---------------|----------|----------|----------------|
| | | Lantai 1 | Lantai 2 | Lantai 3 | Lantai 4 | Lantai 5 | Lantai 6 | Lantai 7 | Lantai 8 | |
| 1 | Gedung A | 10,000 | 10,000 | | | | | | | 20,000 |
| 2 | Gedung B | 10,000 | 10,000 | 10,000 | | | | | | 30,000 |
| 3 | Gedung C | 10,000 | 10,000 | 10,000 | 10,000 | | | | | 40,000 |
| 4 | Gedung D | 10,000 | 10,000 | | | | | | | 20,000 |
| 5 | Gedung E | 10,000 | 10,000 | 10,000 | | | | | | 30,000 |
| 6 | Gedung F | 10,000 | 10,000 | 5,000 | | | | | | 25,000 |
| 7 | Gedung H | 10,000 | | 10,000 | | 10,000 | 10,000 | | | 40,000 |
| 8 | Gedung I | 10,000 | 10,000 | | | | | | | 20,000 |
| 9 | Gedung Komunikasi | 10,000 | 10,000 | 10,000 | | | | | | 30,000 |
| 10 | Gedung N1 | 10,000 | 10,000 | 10,000 | | | | | | 30,000 |
| 11 | Gedung N2 | 10,000 | 10,000 | 10,000 | | | | | | 30,000 |
| 12 | Gedung Musholla | 12,500 | 12,500 | 10,000 | | | | | | 35,000 |
| 13 | Gedung Kantin | 30,000 | | | | | | | | 30,000 |
| 14 | Pos Satpam Masuk | 7,500 | | | | | | | | 7,500 |
| 15 | Pos Satpam Masuk | 7,500 | | | | | | | | 7,500 |
| 16 | Pos Satpam Masuk | 7,500 | | | | | | | | 7,500 |
| 17 | Pos Parkir Motor | 20,000 | | | | | | | | 20,000 |
| Total Rata-rata | | 195,000 | 112,500 | 85,000 | 10,000 | 10,000 | 10,000 | - | - | 422,500 |

- Utilization of Pipe-Based WATER (PDAM)

| No | Nama Gedung | Rata-Rata Penggunaan Air Sebulan (Dalam Liter) | | | | | | | | Jumlah (Liter) |
|------------------------|-------------------|--|---------------|---------------|----------|---------------|---------------|----------|----------|----------------|
| | | Lantai 1 | Lantai 2 | Lantai 3 | Lantai 4 | Lantai 5 | Lantai 6 | Lantai 7 | Lantai 8 | |
| 1 | Gedung A | | | | | | | | | - |
| 2 | Gedung B | | | | | | | | | - |
| 3 | Gedung C | | | | | | | | | - |
| 4 | Gedung D | | | | | | | | | - |
| 5 | Gedung E | | | | | | | | | - |
| 6 | Gedung F | | | | | | | | | - |
| 7 | Gedung H | 10,000 | | 10,000 | | 10,000 | 10,000 | | | 40,000 |
| 8 | Gedung I | | | | | | | | | - |
| 9 | Gedung Komunikasi | | | | | | | | | - |
| 10 | Gedung N1 | | | | | | | | | - |
| 11 | Gedung N2 | | | | | | | | | - |
| 12 | Gedung Musholla | 12,500 | 12,500 | 10,000 | | | | | | 35,000 |
| 13 | Gedung Kantin | | | | | | | | | - |
| 14 | Pos Satpam Masuk | | | | | | | | | - |
| 15 | Pos Satpam Masuk | | | | | | | | | - |
| 16 | Pos Satpam Masuk | | | | | | | | | - |
| 17 | Pos Parkir Motor | 20,000 | | | | | | | | 20,000 |
| Total Rata-rata | | 42,500 | 12,500 | 20,000 | - | 10,000 | 10,000 | - | - | 95,000 |

- Calculation of the Ratio Between Pipe-Based Water Use (PDAM) is as follows:

$$\begin{aligned} &= \frac{\textit{Total average pipe – free water usage (PDAM)}}{\textit{Total average water usage in the Faculty}} \times 100\% \\ &= \frac{95,000}{422,500} \times 100\% \end{aligned}$$

5. Controlling water pollution

Water Pollution Control at FISIP UI is still being carried out manually and conventionally, but in the future it is being planned for better handling.

Some of the things done are as follows:

- Periodically Check the PH of the water which is carried out by the Environment unit,
- Planning for a Water Audit at FISIP UI in early 2024,
- Liquid Waste Management with a grasstrap system,
- Use of Septic tank storage,
- Has a deep infiltration well,
- Making Biopores,
- Planting and Maintaining Large Trees.