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## LAMPIRAN

### Lampiran 1. Hasil VO2max responden

**FORM PENGUKURAN VO2MAX**

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<table border="1"> <tr><td>Level 1</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 2</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td></td><td></td></tr> <tr><td>Level 3</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td></td><td></td></tr> <tr><td>Level 4</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td></tr> <tr><td>Level 5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td></tr> <tr><td>Level 6</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 7</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 8</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 9</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 10</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 11</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 12</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 13</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 14</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 15</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 16</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 17</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 18</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 19</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 20</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>Level 21</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> </table>			Level 1	1	2	3	4	5	6	7	8	9	10	Level 2	1	2	3	4	5	6	7	8			Level 3	1	2	3	4	5	6	7	8			Level 4	1	2	3	4	5	6	7	8	9		Level 5	1	2	3	4	5	6	7	8	9		Level 6	1	2	3	4	5	6	7	8	9	10	Level 7	1	2	3	4	5	6	7	8	9	10	Level 8	1	2	3	4	5	6	7	8	9	10	Level 9	1	2	3	4	5	6	7	8	9	10	Level 10	1	2	3	4	5	6	7	8	9	10	Level 11	1	2	3	4	5	6	7	8	9	10	Level 12	1	2	3	4	5	6	7	8	9	10	Level 13	1	2	3	4	5	6	7	8	9	10	Level 14	1	2	3	4	5	6	7	8	9	10	Level 15	1	2	3	4	5	6	7	8	9	10	Level 16	1	2	3	4	5	6	7	8	9	10	Level 17	1	2	3	4	5	6	7	8	9	10	Level 18	1	2	3	4	5	6	7	8	9	10	Level 19	1	2	3	4	5	6	7	8	9	10	Level 20	1	2	3	4	5	6	7	8	9	10	Level 21	1	2	3	4	5	6	7	8	9	10
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Level 21	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																																															

\* circle the level reached for each participant.

**FORM PENGUKURAN VO2MAX**

Mengapa 1-2 (Selasa, Kamis, Sabtu) Jam ( 10.00 )

Date:	Time:	Conditions:
Participant Name:	APAS	Gender: M/F
Date of Birth:	27 - 03 - 1988	

Level 1	1	2	3	4	5	6	7
Level 2	1	2	3	4	5	6	7
Level 3	1	2	3	4	5	6	7
Level 4	1	2	3	4	5	6	7
Level 5	1	2	3	4	5	6	7
Level 6	1	2	3	4	5	6	7
Level 7	1	2	3	4	5	6	7
Level 8	1	2	3	4	5	6	7
Level 9	1	2	3	4	5	6	7
Level 10	1	2	3	4	5	6	7
Level 11	1	2	3	4	5	6	7
Level 12	1	2	3	4	5	6	7
Level 13	1	2	3	4	5	6	7
Level 14	1	2	3	4	5	6	7
Level 15	1	2	3	4	5	6	7
Level 16	1	2	3	4	5	6	7
Level 17	1	2	3	4	5	6	7
Level 18	1	2	3	4	5	6	7
Level 19	1	2	3	4	5	6	7
Level 20	1	2	3	4	5	6	7
Level 21	1	2	3	4	5	6	7

\* circle the level reached for each participant.

**FORM PENGUKURAN VO2MAX**

Mengapa 1-2 ( Selasa, Kamis, Sabtu) Jam ( 10.00 )

Date:	Time:	Conditions:
Participant Name:	Mulia Pratiwi	Gender: M/F
Date of Birth:	12 - 09 - 1985	

Level 1	1	2	3	4	5	6	7
Level 2	1	2	3	4	5	6	7
Level 3	1	2	3	4	5	6	7
Level 4	1	2	3	4	5	6	7
Level 5	1	2	3	4	5	6	7
Level 6	1	2	3	4	5	6	7
Level 7	1	2	3	4	5	6	7
Level 8	1	2	3	4	5	6	7
Level 9	1	2	3	4	5	6	7
Level 10	1	2	3	4	5	6	7
Level 11	1	2	3	4	5	6	7
Level 12	1	2	3	4	5	6	7
Level 13	1	2	3	4	5	6	7
Level 14	1	2	3	4	5	6	7
Level 15	1	2	3	4	5	6	7
Level 16	1	2	3	4	5	6	7
Level 17	1	2	3	4	5	6	7
Level 18	1	2	3	4	5	6	7
Level 19	1	2	3	4	5	6	7
Level 20	1	2	3	4	5	6	7
Level 21	1	2	3	4	5	6	7

\* circle the level reached for each participant.

**FORM PENGUKURAN VO2MAX**

Mengapa 1-2 ( 2024 ) Time 16.00 Conditions: ( 30+ )

Date:	31/03/2024	Time:	16.00	Conditions:	( 30+ )
Participant Name:	Nurulaw	Gender:	M/F		
Date of Birth:	09-(12-2001)				

Level 1	1	2	3	4	5	6	7
Level 2	1	2	3	4	5	6	7
Level 3	1	2	3	4	5	6	7
Level 4	1	2	3	4	5	6	7
Level 5	1	2	3	4	5	6	7
Level 6	1	2	3	4	5	6	7
Level 7	1	2	3	4	5	6	7
Level 8	1	2	3	4	5	6	7
Level 9	1	2	3	4	5	6	7
Level 10	1	2	3	4	5	6	7
Level 11	1	2	3	4	5	6	7
Level 12	1	2	3	4	5	6	7
Level 13	1	2	3	4	5	6	7
Level 14	1	2	3	4	5	6	7
Level 15	1	2	3	4	5	6	7
Level 16	1	2	3	4	5	6	7
Level 17	1	2	3	4	5	6	7
Level 18	1	2	3	4	5	6	7
Level 19	1	2	3	4	5	6	7
Level 20	1	2	3	4	5	6	7
Level 21	1	2	3	4	5	6	7

\* circle the level reached for each participant.

**FORM PENGUKURAN VO2MAX**

Mengapa 1-2 ( Selasa, Kamis, Sabtu ) Jam ( 10.00 )

Date:	Time:	Conditions:
Participant Name:	Rifki Alquran	Gender: M/F
Date of Birth:	17 - 10 - 1987	

Level 1	1	2	3	4	5	6	7
Level 2	1	2	3	4	5	6	7
Level 3	1	2	3	4	5	6	7
Level 4	1	2	3	4	5	6	7
Level 5	1	2	3	4	5	6	7
Level 6	1	2	3	4	5	6	7
Level 7	1	2	3	4	5	6	7
Level 8	1	2	3	4	5	6	7
Level 9	1	2	3	4	5	6	7
Level 10	1	2	3	4	5	6	7
Level 11	1	2	3	4	5	6	7
Level 12	1	2	3	4	5	6	7
Level 13	1	2	3	4	5	6	7
Level 14	1	2	3	4	5	6	7
Level 15	1	2	3	4	5	6	7
Level 16	1	2	3	4	5	6	7
Level 17	1	2	3	4	5	6	7
Level 18	1	2	3	4	5	6	7
Level 19	1	2	3	4	5	6	7
Level 20	1	2	3	4	5	6	7
Level 21	1	2	3	4	5	6	7

\* circle the level reached for each participant.

**FORM PENGUKURAN VO2MAX**

Date: <u>15 / 04 / 2024</u>	Time: <u>10.50</u>	Conditions: _____																																																																																																																																																																																													
Participant Name: <u>AUWIA WAGILOA</u>	Gender: <input checked="" type="checkbox"/> F																																																																																																																																																																																														
Date of Birth: <u>27 - 01 - 2000</u>																																																																																																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>Level 1</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td></td></tr> <tr><td>Level 2</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 3</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 4</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 6</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 7</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 8</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 9</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 10</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 11</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 12</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 13</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 14</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 15</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 16</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 17</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 18</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 19</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 20</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Level 21</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> </table>			Level 1	1	2	3	4	5	6	7		Level 2	1	2	3	4	5	6	7	8	Level 3	1	2	3	4	5	6	7	8	Level 4	1	2	3	4	5	6	7	8	Level 5	1	2	3	4	5	6	7	8	Level 6	1	2	3	4	5	6	7	8	Level 7	1	2	3	4	5	6	7	8	Level 8	1	2	3	4	5	6	7	8	Level 9	1	2	3	4	5	6	7	8	Level 10	1	2	3	4	5	6	7	8	Level 11	1	2	3	4	5	6	7	8	Level 12	1	2	3	4	5	6	7	8	Level 13	1	2	3	4	5	6	7	8	Level 14	1	2	3	4	5	6	7	8	Level 15	1	2	3	4	5	6	7	8	Level 16	1	2	3	4	5	6	7	8	Level 17	1	2	3	4	5	6	7	8	Level 18	1	2	3	4	5	6	7	8	Level 19	1	2	3	4	5	6	7	8	Level 20	1	2	3	4	5	6	7	8	Level 21	1	2	3	4	5	6	7	8
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* circle the level reached for each participant.																																																																																																																																																																																															

**FORM PENGUKURAN VO2MAX**

Date: <u>12-04-21 / 07/2024</u>	Time: <u>17.04</u>	Conditions: <u>Fair</u> ( <u>34%</u> )																																																																																																																																																																																													
Participant Name: <u>GABRIELA ATSL</u>	Gender: <input checked="" type="checkbox"/> F																																																																																																																																																																																														
Date of Birth: <u>05 Jun 2002</u>																																																																																																																																																																																															
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Participant Name: <u>Andi Tuluska Piske Sabrina M.</u>	Gender: <input checked="" type="checkbox"/> F																																																																																																																																																																																														
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**FORM PENGUKURAN VO2MAX**

Date: <u>31-01-2013</u>	Time: <u>11.00</u>	Conditions: <u>Fair (34,0)</u>																																																																																																																																																																								
Participant Name: <u>Sekarwati</u>	Gender: <u>MF</u>																																																																																																																																																																									
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Participant Name: <u>AHMAD TEGAR YULIKAHA ARIADI</u>	Gender: <u>MF</u>																																																																																																																																																																									
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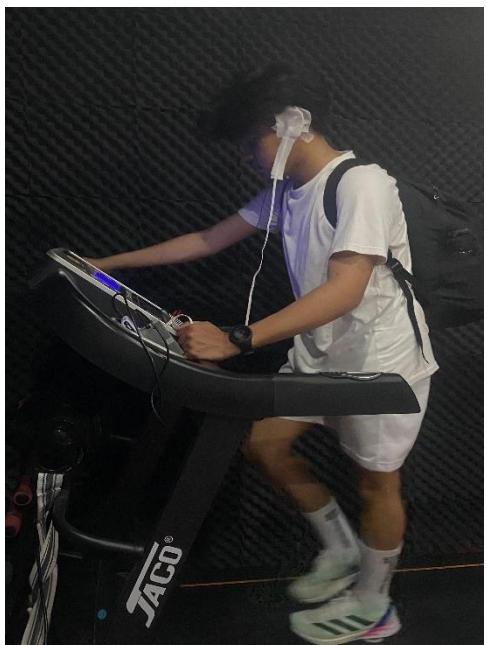
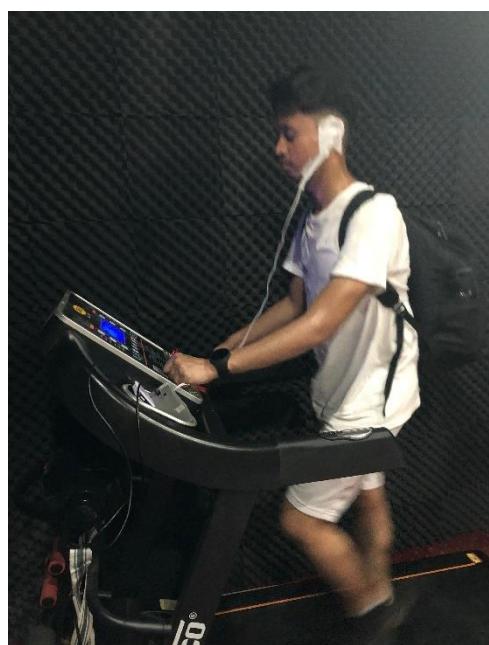
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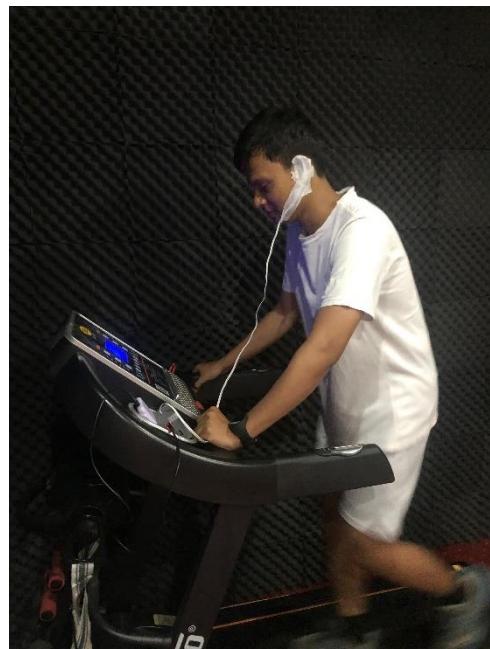
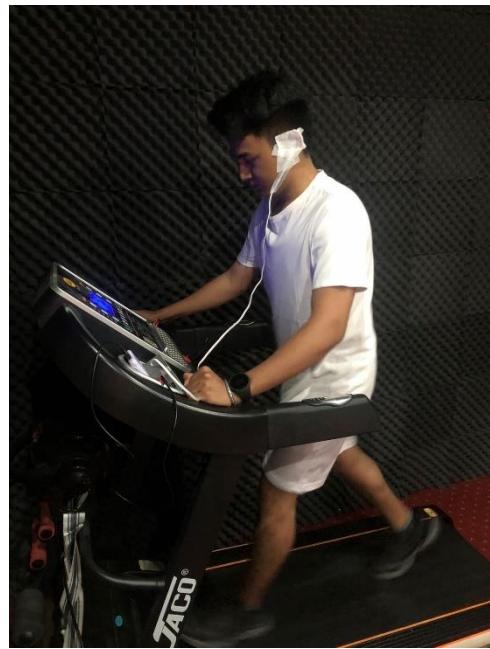
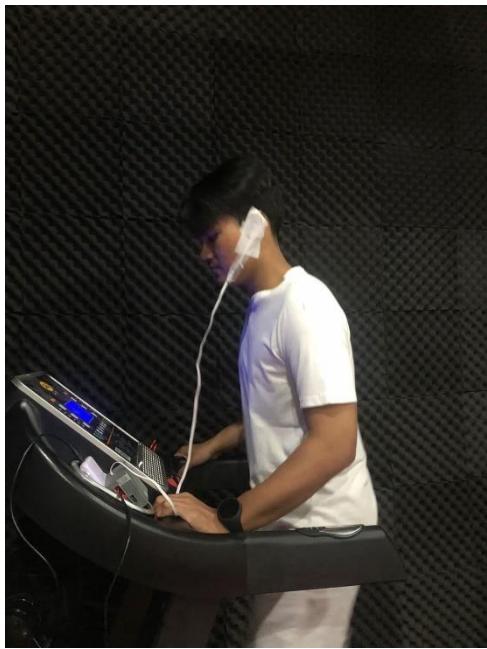
\* circle the level reached for each participant.

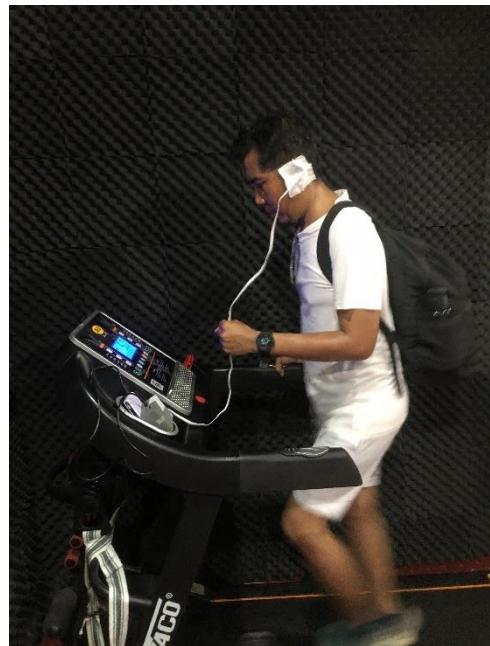
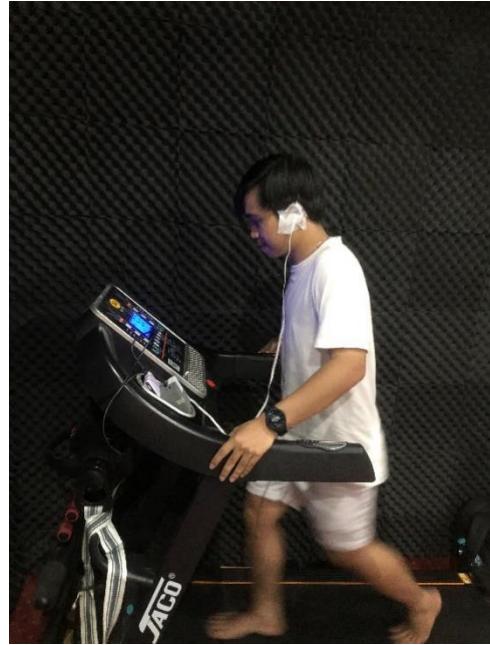
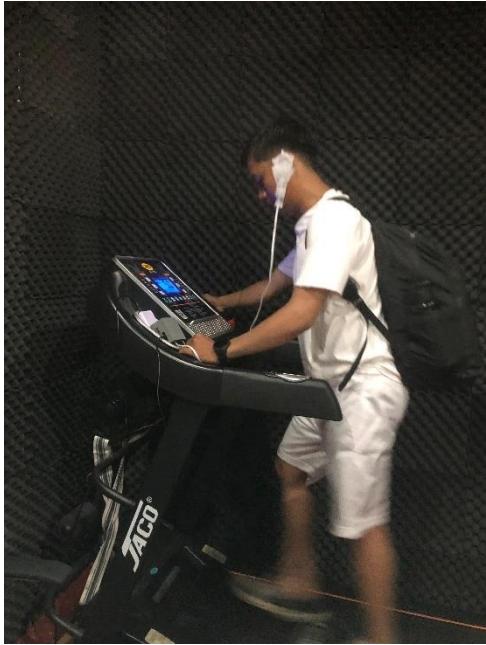
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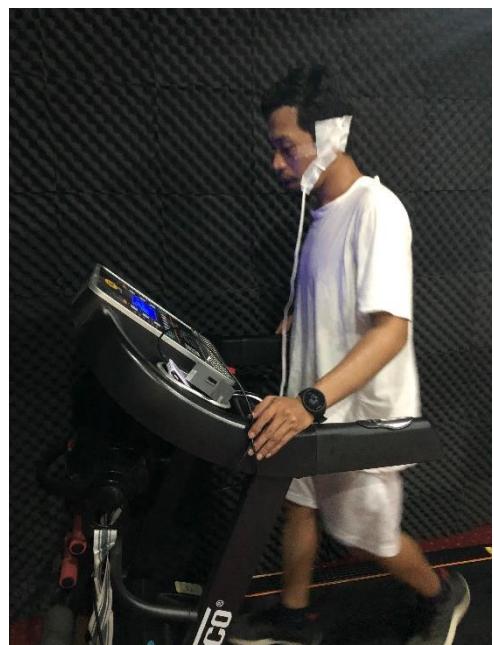
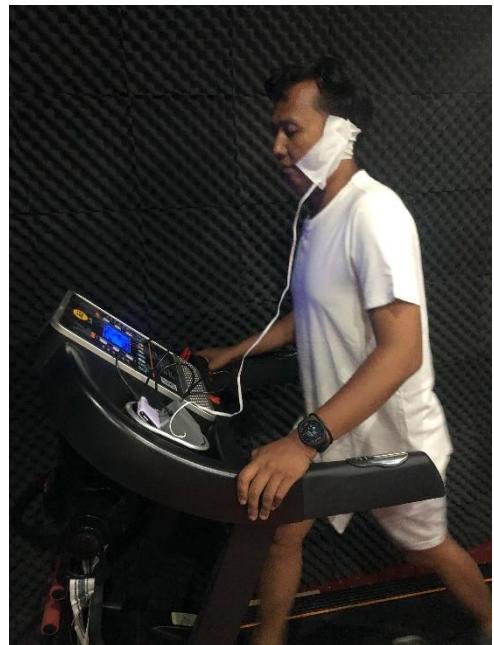
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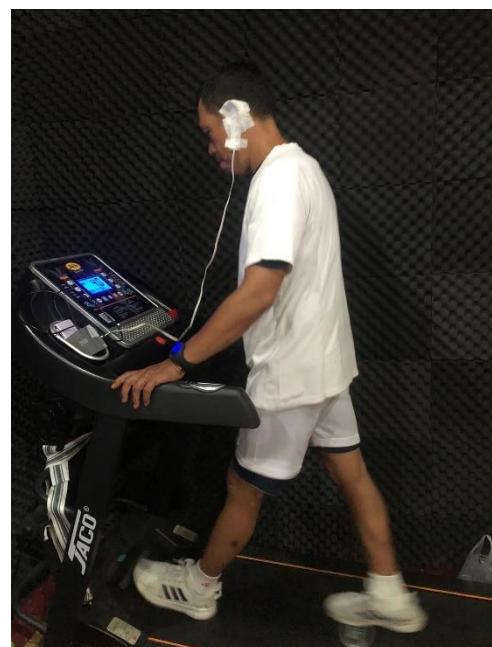
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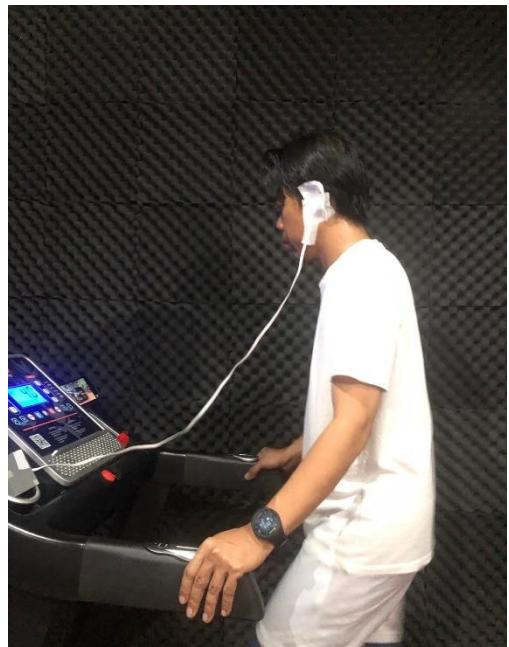
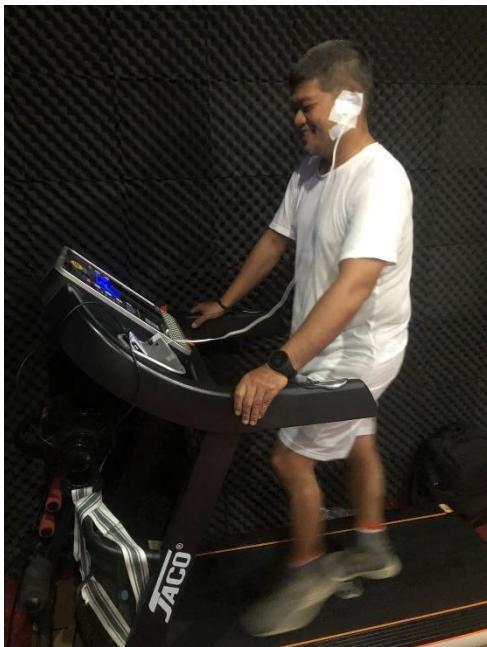
**Lampiran 2 Dokumentasi pengambilan data**











### Lampiran 3. Dataset chip MLX90614



Microelectronic Integrated Systems

## MLX90614 family

*Single and Dual Zone  
Infra Red Thermometer in TO-39*

### Features and Benefits

- Small size, low cost
- Easy to integrate
- Factory calibrated in wide temperature range:  
-40 to 125 °C for sensor temperature and  
-70 to 380 °C for object temperature.
- High accuracy of 0.5°C over wide temperature range (0...+50°C for both Ta and To)
- High (medical) accuracy calibration optional
- Measurement resolution of 0.02°C
- Single and dual zone versions
- SMBus compatible digital interface
- Customizable PWM output for continuous reading
- Available in 3V and 5V versions
- Simple adaptation for 8 to 16V applications
- Power saving mode
- Different package options for applications and measurements versatility
- Automotive grade

### Applications Examples

- High precision non-contact temperature measurements;
- Thermal Comfort sensor for Mobile Air Conditioning control system;
- Temperature sensing element for residential, commercial and industrial building air conditioning;
- Windshield defogging;
- Automotive blind angle detection;
- Industrial temperature control of moving parts;
- Temperature control in printers and copiers;
- Home appliances with temperature control;
- Healthcare;
- Livestock monitoring;
- Movement detection;
- Multiple zone temperature control – up to 100 sensors can be read via common 2 wires
- Thermal relay/alert
- Body temperature measurement

### Ordering Information



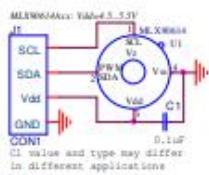
Part No. MLX90614 X X X  
(1) (2) (3)

(1) Supply Voltage:  
A - 5V power  
(adaptable for 12V)  
B - 3V power

(2) Number of thermopiles:  
A – single zone  
B – dual zone

(3) Package type:  
A – Filter inside  
B – Filter outside

### 1 Functional diagram



MLX90614 connection to SMBus

Figure 1 Typical application schematics

### 2 General Description

The MLX90614 is an Infra Red thermometer for non contact temperature measurements. Both the IR sensitive thermopile detector chip and the signal conditioning ASSP are integrated in the same TO-39 can. Thanks to its low noise amplifier, 17-bit ADC and powerful DSP unit, a high accuracy and resolution of the thermometer is achieved.

The thermometer comes factory calibrated with a digital PWM and SMBus output.

As a standard, the 10-bit PWM is configured to continuously transmit the measured temperature in range of -20 to 120 °C, with an output resolution of 0.14 °C.

The POR default is SMBus interface

**Lampiran 4. Rata-Rata Suhu dan Kelembapan Ruangan**