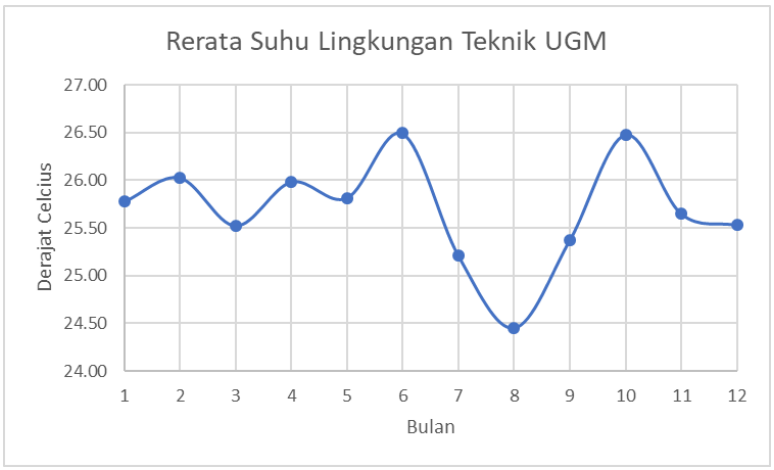
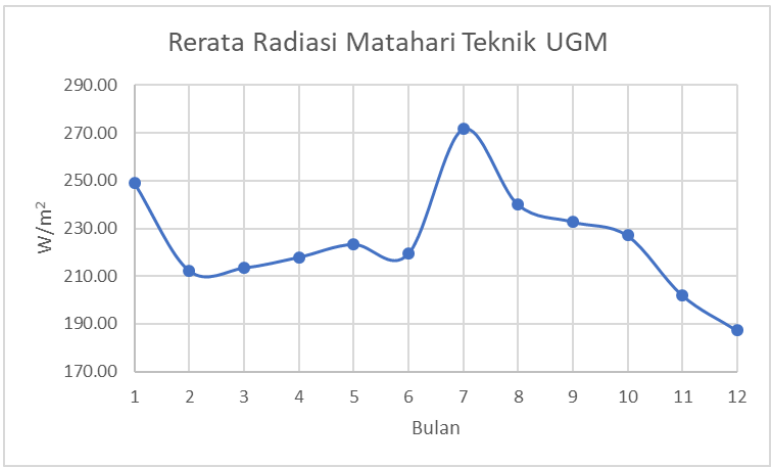
Hasil Pengambilan Data

Data Weather Teknik UGM





Format variasi data

NO	KODE	Kondisi Batas Sistem		T_AC	Heater	Penghuni
		Dry-Bulb Temperature	Global Radiation			
1	DT1	BC1	BC1	AC16	H0	P2
2	DT2	BC2	BC2	AC16	H0	P2
3	DT3	BC3	BC3	AC16	H0	P2
4	DT4	BC4	BC4	AC16	H0	P2
5	DT5	BC1	BC1	AC17	H0	P2
6	DT6	BC2	BC2	AC17	H0	P2
7	DT7	BC3	BC3	AC17	H0	P2
8	DT8	BC4	BC4	AC17	H0	P2
9	DT9	BC1	BC1	AC18	H0	P2
10	DT10	BC2	BC2	AC18	H0	P2
11	DT11	BC3	BC3	AC18	H0	P2
12	DT12	BC4	BC4	AC18	H0	P2
13	DT13	BC1	BC1	AC19	H0	P2
14	DT14	BC2	BC2	AC19	H0	P2
15	DT15	BC3	BC3	AC19	H0	P2
16	DT16	BC4	BC4	AC19	H0	P2
17	DT17	BC1	BC1	AC20	H0	P2
18	DT18	BC2	BC2	AC20	H0	P2
19	DT19	BC3	BC3	AC20	H0	P2
20	DT20	BC4	BC4	AC20	H0	P2
21	DT21	BC1	BC1	AC21	H0	P2
22	DT22	BC2	BC2	AC21	H0	P2
23	DT23	BC3	BC3	AC21	H0	P2
24	DT24	BC4	BC4	AC21	H0	P2
25	DT25	BC1	BC1	AC22	H0	P2
26	DT26	BC2	BC2	AC22	H0	P2
27	DT27	BC3	BC3	AC22	H0	P2
28	DT28	BC4	BC4	AC22	H0	P2
29	DT29	BC1	BC1	AC23	H0	P2
30	DT30	BC2	BC2	AC23	H0	P2
31	DT31	BC3	BC3	AC23	H0	P2
32	DT32	BC4	BC4	AC23	H0	P2
33	DT33	BC1	BC1	AC24	H0	P2
34	DT34	BC2	BC2	AC24	H0	P2
35	DT35	BC3	BC3	AC24	H0	P2
36	DT36	BC4	BC4	AC24	H0	P2
37	DT37	BC1	BC1	AC25	H0	P2
38	DT38	BC2	BC2	AC25	H0	P2
39	DT39	BC3	BC3	AC25	H0	P2
40	DT40	BC4	BC4	AC25	H0	P2
41	DT41	BC1	BC1	AC26	H0	P2
42	DT42	BC2	BC2	AC26	H0	P2
43	DT43	BC3	BC3	AC26	H0	P2
44	DT44	BC4	BC4	AC26	H0	P2
45	DT45	BC1	BC1	AC27	H0	P2
46	DT46	BC2	BC2	AC27	H0	P2
47	DT47	BC3	BC3	AC27	H0	P2
48	DT48	BC4	BC4	AC27	H0	P2
49	DT49	BC1	BC1	AC28	H0	P2
50	DT50	BC2	BC2	AC28	H0	P2
51	DT51	BC3	BC3	AC28	H0	P2
52	DT52	BC4	BC4	AC28	H0	P2
53	DT53	BC1	BC1	AC29	H0	P2
54	DT54	BC2	BC2	AC29	H0	P2
55	DT55	BC3	BC3	AC29	H0	P2
56	DT56	BC4	BC4	AC29	H0	P2
57	DT57	BC1	BC1	AC30	H0	P2
58	DT58	BC2	BC2	AC30	H0	P2
59	DT59	BC3	BC3	AC30	H0	P2
60	DT60	BC4	BC4	AC30	H0	P2
61	DT61	BC1	BC1	AC26	H1	P2
62	DT62	BC2	BC2	AC26	H1	P2
63	DT63	BC3	BC3	AC26	H1	P2
64	DT64	BC4	BC4	AC26	H1	P2
65	DT65	BC1	BC1	AC27	H1	P2
66	DT66	BC2	BC2	AC27	H1	P2
67	DT67	BC3	BC3	AC27	H1	P2
68	DT68	BC4	BC4	AC27	H1	P2
69	DT69	BC1	BC1	AC28	H1	P2
70	DT70	BC2	BC2	AC28	H1	P2
71	DT71	BC3	BC3	AC28	H1	P2
72	DT72	BC4	BC4	AC28	H1	P2
73	DT73	BC1	BC1	AC29	H1	P2
74	DT74	BC2	BC2	AC29	H1	P2
75	DT75	BC3	BC3	AC29	H1	P2
76	DT76	BC4	BC4	AC29	H1	P2
77	DT77	BC1	BC1	AC30	H1	P2
78	DT78	BC2	BC2	AC30	H1	P2
79	DT79	BC3	BC3	AC30	H1	P2
80	DT80	BC4	BC4	AC30	H1	P2
81	DT81	BC1	BC1	AC26	H2	P2
82	DT82	BC2	BC2	AC26	H2	P2
83	DT83	BC3	BC3	AC26	H2	P2
84	DT84	BC4	BC4	AC26	H2	P2
85	DT85	BC1	BC1	AC27	H2	P2
86	DT86	BC2	BC2	AC27	H2	P2
87	DT87	BC3	BC3	AC27	H2	P2
88	DT88	BC4	BC4	AC27	H2	P2
89	DT89	BC1	BC1	AC28	H2	P2
90	DT90	BC2	BC2	AC28	H2	P2
91	DT91	BC3	BC3	AC28	H2	P2
92	DT92	BC4	BC4	AC28	H2	P2
93	DT93	BC1	BC1	AC29	H2	P2
94	DT94	BC2	BC2	AC29	H2	P2
95	DT95	BC3	BC3	AC29	H2	P2
96	DT96	BC4	BC4	AC29	H2	P2
97	DT97	BC1	BC1	AC30	H2	P2
98	DT98	BC2	BC2	AC30	H2	P2
99	DT99	BC3	BC3	AC30	H2	P2
100	DT100	BC4	BC4	AC30	H2	P2

Keterangan:

AC16	16
AC17	17
AC18	18
AC19	19
AC20	20
AC21	21
AC22	22
AC23	23
AC24	24
AC25	25
AC26	26
AC27	27

AC28	28
AC29	29
AC30	30
H0	Heater OFF
H1	1 Heater ON
H2	2 Heater ON
P2	2 Person
BC1	21-Mar
BC2	21-Jun
BC3	23-Sep
BC4	22-Dec

Data Hasil Simulasi IESVE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1			Dry-bulb t	Global rad	Air tempe	Relative humidity (%)								
2					chamber	chamber								
3	Date	Time	TeknikUG	TeknikUG	DT1.aps	DT1.aps								
4	Sun, 21/M	24:00:00												
5		0:03			24.03	70.64								
6		0:09			24.03	70.72								
7		0:15			24.04	70.81								
8		0:21			24.04	70.9								
9		0:27			24.04	70.99								
10		0:30		0										
11		0:33			24.04	71.09								
12		0:39			24.04	71.18								
13		0:45			24.04	71.28								
14		0:51			24.04	71.38								
15		0:57			24.04	71.47								
16		1:00	24.08											
17		1:03			24.04	71.56								
18		1:09			24.03	71.66								
19		1:15			24.03	71.76								
20		1:21			24.03	71.87								
21		1:27			24.02	71.97								
22		1:30		0										
23		1:33			24.02	72.08								
24		1:39			24.01	72.19								
25		1:45			24.01	72.3								
26		1:51			24	72.41								
27		1:57			23.99	72.52								
28		2:00	23.69											
29		2:03			23.99	72.62								
30		2:09			23.98	72.74								
31		2:15			23.97	72.86								
32		2:21			23.96	72.98								
33		2:27			23.95	73.1								
34		2:30		0										
35		2:33			23.94	73.22								
36		2:39			23.93	73.35								
37		2:45			23.91	73.47								
38		2:51			23.9	73.6								
39		2:57			23.89	73.73								
40		3:00	23.31											

FORMAT | Data Weather | DT1 | DT2 | DT3 | DT4 | DT5 | DT6 | DT7 | DT8 | DT9 | DT10 | DT11 | DT12

* Data Simulasi IESVE

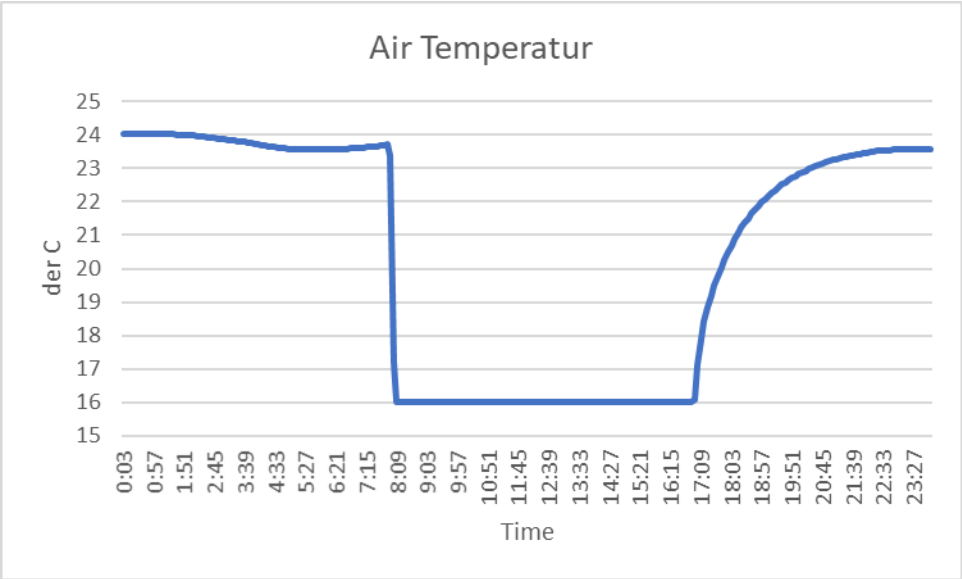
Data Hasil Simulasi IESVE setelah dirapihkan

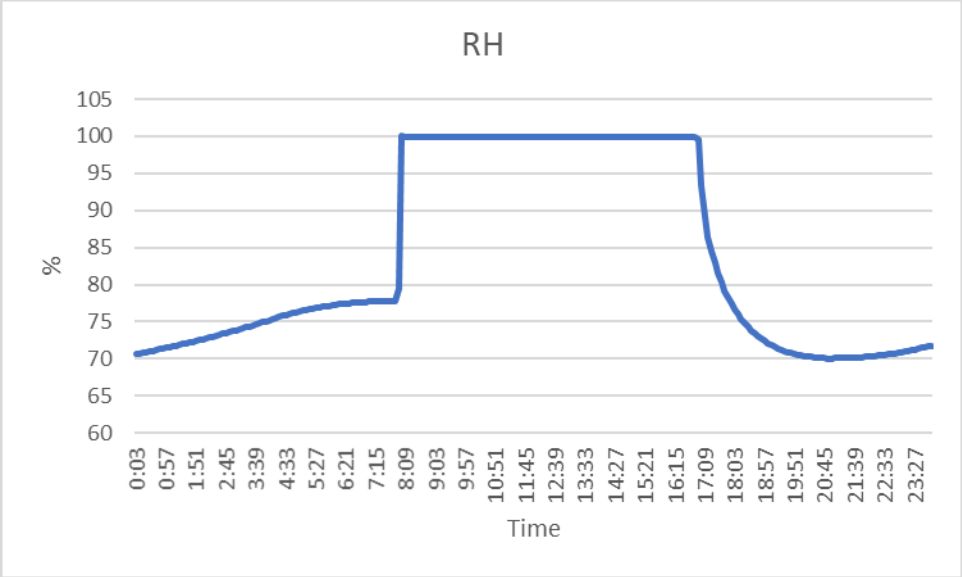
No	Time	Occupant	Heater	AC	DrybulbT	Radiation	AirT	RH
1	0:03	2	0	0	24.08	0	24.03	70.64
2	0:09	2	0	0	24.08	0	24.03	70.72
3	0:15	2	0	0	24.08	0	24.04	70.81
4	0:21	2	0	0	24.08	0	24.04	70.9
5	0:27	2	0	0	24.08	0	24.04	70.99
6	0:33	2	0	0	24.08	0	24.04	71.09
7	0:39	2	0	0	24.08	0	24.04	71.18
8	0:45	2	0	0	24.08	0	24.04	71.28
9	0:51	2	0	0	24.08	0	24.04	71.38
10	0:57	2	0	0	24.08	0	24.04	71.47
11	1:03	2	0	0	24.08	0	24.04	71.56
12	1:09	2	0	0	24.08	0	24.03	71.66
13	1:15	2	0	0	24.08	0	24.03	71.76
14	1:21	2	0	0	24.08	0	24.03	71.87
15	1:27	2	0	0	24.08	0	24.02	71.97
16	1:33	2	0	0	24.08	0	24.02	72.08
17	1:39	2	0	0	24.08	0	24.01	72.19
18	1:45	2	0	0	24.08	0	24.01	72.3
19	1:51	2	0	0	24.08	0	24	72.41
20	1:57	2	0	0	24.08	0	23.99	72.52
21	2:03	2	0	0	23.69	0	23.99	72.62
22	2:09	2	0	0	23.69	0	23.98	72.74
23	2:15	2	0	0	23.69	0	23.97	72.86
24	2:21	2	0	0	23.69	0	23.96	72.98
25	2:27	2	0	0	23.69	0	23.95	73.1
26	2:33	2	0	0	23.69	0	23.94	73.22
27	2:39	2	0	0	23.69	0	23.93	73.35
28	2:45	2	0	0	23.69	0	23.91	73.47
29	2:51	2	0	0	23.69	0	23.9	73.6
30	2:57	2	0	0	23.69	0	23.89	73.73
31	3:03	2	0	0	23.31	0	23.88	73.84
32	3:09	2	0	0	23.31	0	23.86	73.97
33	3:15	2	0	0	23.31	0	23.85	74.1
34	3:21	2	0	0	23.31	0	23.83	74.23
35	3:27	2	0	0	23.31	0	23.82	74.36
36	3:33	2	0	0	23.31	0	23.8	74.5
37	3:39	2	0	0	23.31	0	23.79	74.63
38	3:45	2	0	0	23.31	0	23.77	74.77
39	3:51	2	0	0	23.31	0	23.76	74.9

DT1 | DT2 | DT3 | DT4 | DT5 | DT6 | DT7 | DT8 | DT9 | DT10 | DT11 | DT12

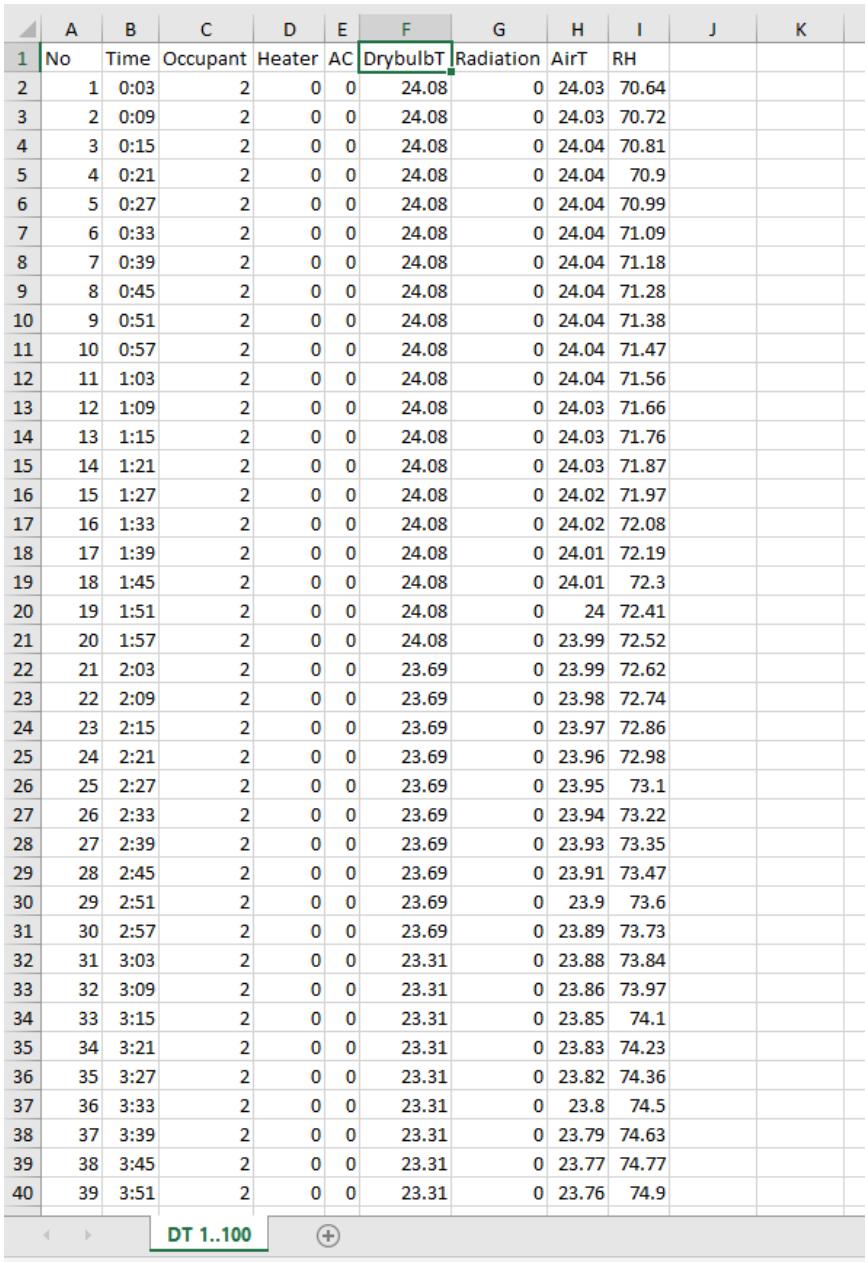
* Data Training ANN

Grafik Data


Air Temperatur
der C
25
24
23
22
21
20
19
18
17
16
15
0:03
0:57
1:51
2:45
3:39
4:33
5:27
6:21
7:15
8:09
9:03
9:57
10:51
11:45
12:39
13:33
14:27
15:21
16:15
17:09
18:03
18:57
19:51
20:45
21:39
22:33
23:27
Time


RH
%
105
100
95
90
85
80
75
70
65
60
0:03
0:57
1:51
2:45
3:39
4:33
5:27
6:21
7:15
8:09
9:03
9:57
10:51
11:45
12:39
13:33
14:27
15:21
16:15
17:09
18:03
18:57
19:51
20:45
21:39
22:33
23:27
Time

Data Gabung DT1 hingga DT100



	A	B	C	D	E	F	G	H	I	J	K
1	No	Time	Occupant	Heater	AC	DrybulbT	Radiation	AirT	RH		
2	1	0:03	2	0	0	24.08	0	24.03	70.64		
3	2	0:09	2	0	0	24.08	0	24.03	70.72		
4	3	0:15	2	0	0	24.08	0	24.04	70.81		
5	4	0:21	2	0	0	24.08	0	24.04	70.9		
6	5	0:27	2	0	0	24.08	0	24.04	70.99		
7	6	0:33	2	0	0	24.08	0	24.04	71.09		
8	7	0:39	2	0	0	24.08	0	24.04	71.18		
9	8	0:45	2	0	0	24.08	0	24.04	71.28		
10	9	0:51	2	0	0	24.08	0	24.04	71.38		
11	10	0:57	2	0	0	24.08	0	24.04	71.47		
12	11	1:03	2	0	0	24.08	0	24.04	71.56		
13	12	1:09	2	0	0	24.08	0	24.03	71.66		
14	13	1:15	2	0	0	24.08	0	24.03	71.76		
15	14	1:21	2	0	0	24.08	0	24.03	71.87		
16	15	1:27	2	0	0	24.08	0	24.02	71.97		
17	16	1:33	2	0	0	24.08	0	24.02	72.08		
18	17	1:39	2	0	0	24.08	0	24.01	72.19		
19	18	1:45	2	0	0	24.08	0	24.01	72.3		
20	19	1:51	2	0	0	24.08	0	24	72.41		
21	20	1:57	2	0	0	24.08	0	23.99	72.52		
22	21	2:03	2	0	0	23.69	0	23.99	72.62		
23	22	2:09	2	0	0	23.69	0	23.98	72.74		
24	23	2:15	2	0	0	23.69	0	23.97	72.86		
25	24	2:21	2	0	0	23.69	0	23.96	72.98		
26	25	2:27	2	0	0	23.69	0	23.95	73.1		
27	26	2:33	2	0	0	23.69	0	23.94	73.22		
28	27	2:39	2	0	0	23.69	0	23.93	73.35		
29	28	2:45	2	0	0	23.69	0	23.91	73.47		
30	29	2:51	2	0	0	23.69	0	23.9	73.6		
31	30	2:57	2	0	0	23.69	0	23.89	73.73		
32	31	3:03	2	0	0	23.31	0	23.88	73.84		
33	32	3:09	2	0	0	23.31	0	23.86	73.97		
34	33	3:15	2	0	0	23.31	0	23.85	74.1		
35	34	3:21	2	0	0	23.31	0	23.83	74.23		
36	35	3:27	2	0	0	23.31	0	23.82	74.36		
37	36	3:33	2	0	0	23.31	0	23.8	74.5		
38	37	3:39	2	0	0	23.31	0	23.79	74.63		
39	38	3:45	2	0	0	23.31	0	23.77	74.77		
40	39	3:51	2	0	0	23.31	0	23.76	74.9		

DT 1..100

Jumlah Data

Satu variasi kondisi simulasi → 240 data

Terdapat 100 Variasi → 100 * 240 data → 24000 data

Total Keseluruhan Data = 24000