Lampiran 01

DATA PERSENTASE PENDUDUK MISKIN DI INDONESIA

TAHUN	SEMESTER I	SEMESTER II
2012	11,96	11,66
2013	11,37	11,47
2014	11,25	10,96
2015	11,22	11,13
2016	10,86	10,7
2017	10,64	10,12
2018	9,82	9,66
2019	9,41	9,22
2020	9,78	

Lampiran 02

TABEL KERJA PERHITUNGAN KOMPONEN *TREND*

NO	TAHUN	SEMESTER	PERSENTASE PENDUDUK MISKIN (Y)	X	X^2	XY
1	2012	I	11,96	-8	64	-95,68
2		II	11,66	-7	49	-81,62
3	2013	I	11,37	-6	36	-68,22
4		II	11,47	-5	25	-57,35
5	2014	I	11,25	-4	16	-45,00
6		II	10,96	-3	9	-32,88
7	2015	I	11,22	-2	4	-22,44
8		II	11,13	-1	1	-11,13
9	2016	I	10,86	0	0	0,00
10		II	10,7	1	1	10,70
11	2017	I	10,64	2	4	21,28
12		II	10,12	3	9	30,36
13	2018	I	9,82	4	16	39,28
14		II	9,66	5	25	48,30
15	2019	I	9,41	6	36	56,46
16		II	9,22	7	49	64,54
17	2020	I	9,78	8	64	78,24
JUMLAH			181,23	0	408	-65,16

Lampiran 03

TABEL KERJA PERHITUNGAN KOMPONEN MUSIM

NO	TAHUN	SEMESTER	PERSENTASE PENDUDUK MISKIN (X_t)	TOTAL BERGERAK 2 SEMESTER	*MOVING AVERAGE (MA)*	INDEKS RATIO
1	2012	I	11,96			
2		II	11,66	23,62	11,81	98,72988992
3	2013	I	11,37	23,03	11,515	98,7407729
4		II	11,47	22,84	11,42	100,4378284
5	2014	I	11,25	22,72	11,36	99,03169014
6		II	10,96	22,21	11,105	98,69428186
7	2015	I	11,22	22,18	11,09	101,1722272
8		II	11,13	22,35	11,175	99,59731544
9	2016	I	10,86	21,99	10,995	98,77216917
10		II	10,7	21,56	10,78	99,25788497
11	2017	I	10,64	21,34	10,67	99,71883786
12		II	10,12	20,76	10,38	97,49518304
13	2018	I	9,82	19,94	9,97	98,49548646
14		II	9,66	19,48	9,74	99,17864476
15	2019	I	9,41	19,07	9,535	98,68904038
16		II	9,22	18,63	9,315	98,98013956
17	2020	I	9,78	19	9,5	102,9473684

Lampiran 04

TABEL KERJA PERHITUNGAN KOMPONEN MUSIM (LANJUTAN)

TAHUN	INDEKS RATIO SEMESTER	
	I	II
2012		98,72988992
2013	98,74077	100,4378284
2014	99,03169	98,69428186
2015	101,1722	99,59731544
2016	98,77217	99,25788497
2017	99,71884	97,49518304
2018	98,49549	99,17864476
2019	98,68904	98,98013956
2020	102,9474	-
Rata-Rata	99,69595	99,04639599
Total Rata-Rata	99,37117	
Faktor Koreksi	2,012656135	

Lampiran 05

TABEL KERJA PERHITUNGAN KOMPONEN SIKLUS MODEL DEKOMPOSISI MULTIPLIKATIF

t	TAHUN	SEMESTER	PERSENTASE PENDUDUK MISKIN (X_t)	*MOVING AVERAGE (MA)*	TREND (T_t)	SIKLUS $\left(\frac{MA}{T_t}\times 100\%\right)$
1	2012	I	11,96			
2		II	11,66	11,81	11,77853	100,2672
3	2013	I	11,37	11,515	11,61882	99,1064
4		II	11,47	11,42	11,45912	99,6586
5	2014	I	11,25	11,36	11,29941	100,5362
6		II	10,96	11,105	11,13971	99,6884
7	2015	I	11,22	11,09	10,98	101,0018
8		II	11,13	11,175	10,82029	103,2782
9	2016	I	10,86	10,995	10,66059	103,1369
10		II	10,7	10,78	10,50088	102,658
11	2017	I	10,64	10,67	10,34118	103,1797
12		II	10,12	10,38	10,18147	101,9499
13	2018	I	9,82	9,97	10,02176	99,4835
14		II	9,66	9,74	9,862059	98,7623
15	2019	I	9,41	9,535	9,702353	98,2751
16		II	9,22	9,315	9,542647	97,6144
17	2020	I	9,78	9,5	9,382941	101,2476

Lampiran 06

TABEL KERJA PERHITUNGAN KOMPONEN SIKLUS MODEL DEKOMPOSISI ADITIF

t	TAHUN	SEMESTER	PERSENTASE PENDUDUK MISKIN (X_t)	*MOVING AVERAGE (MA)*	TREND (T_t)	SIKLUS $(MA - T_t) \times 100\%$
1	2012	I	11,96			
2		II	11,66	11,81	11,77853	3.147058824
3	2013	I	11,37	11,515	11,61882	-10.38235294
4		II	11,47	11,42	11,45912	-3.911764706
5	2014	I	11,25	11,36	11,29941	6.058823529
6		II	10,96	11,105	11,13971	-3.470588235
7	2015	I	11,22	11,09	10,98	11
8		II	11,13	11,175	10,82029	35.47058824
9	2016	I	10,86	10,995	10,66059	33.44117647
10		II	10,7	10,78	10,50088	27.91176471
11	2017	I	10,64	10,67	10,34118	32.88235294
12		II	10,12	10,38	10,18147	19.85294118
13	2018	I	9,82	9,97	10,02176	-5.176470588
14		II	9,66	9,74	9,862059	-12.20588235
15	2019	I	9,41	9,535	9,702353	-16.73529412
16		II	9,22	9,315	9,542647	-22.76470588
17	2020	I	9,78	9,5	9,382941	11.70588235

Lampiran 07

TABEL KERJA PERHITUNGAN MODEL DEKOMPOSISI ADITIF

Periode (t)	X_t	$Forecasting(F_t)$	$e = X_t - F_t$	e^2	$\frac{X_t - F_t}{X_t}$	$\left\|\frac{X_t - F_t}{X_t}\right\|$
1	11,96	12,58591163	-0,6259116	0,391765375	-0,05233374	0,052333749
2	11,66	12,3896766	-0,7296766	0,532427941	-0,06257946	0,062579468
3	11,37	12,26649987	-0,8964998	0,803712017	-0,07884783	0,078847834
4	11,47	12,07026484	-0,6002648	0,360317873	-0,05233346	0,052333464
5	11,25	11,94708811	-0,6970881	0,485931827	-0,06196338	0,061963387
6	10,96	11,75085307	-0,7908530	0,62544858	-0,07215812	0,072158127
7	11,22	11,62767634	-0,4076763	0,166199999	-0,03633479	0,03633479
8	11,13	11,43144131	-0,3014413	0,090866861	-0,02708367	0,027083675
9	10,86	11,30826458	-0,4482645	0,20094113	-0,04127666	0,041276664
10	10,7	11,11202954	-0,4120295	0,169768343	-0,03850743	0,038507434
11	10,64	10,98885281	-0,3488528	0,121698284	-0,03278691	0,032786918
12	10,12	10,79261778	-0,6726177	0,452414674	-0,06646420	0,066464207
13	9,82	10,66944105	-0,8494410	0,721550092	-0,08650112	0,086501125
14	9,66	10,47320601	-0,8132060	0,661304018	-0,08418281	0,084182817
15	9,41	10,35002928	-0,9400292	0,883655051	-0,09989684	0,099896842
16	9,22	10,15379425	-0,9337942	0,871971696	-0,10127920	0,101279203
17	9,78	10,03061752	-0,2506175	0,06280914	-0,02562551	0,025625513
Jumlah			-10,718	7,6028		1,0201

Lampiran 08

TABEL KERJA PERHITUNGAN MODEL DEKOMPOSISI MULTIPLIKATIF

Periode (t)	X_t	$Forecasting(F_t)$	$e = X_t - F_t$	e^2	$\frac{X_t - F_t}{X_t}$	$\left\|\frac{X_t - F_t}{X_t}\right\|$
1	11,96	21,226	-9,266	85,8648	-0,774776	0,774776
2	11,66	20,714	-9,054	81,9696	-0,776476	0,776476
3	11,37	20,581	-9,211	84,8365	-0,810085	0,810085
4	11,47	20,074	-8,604	74,0274	-0,750123	0,750123
5	11,25	19,935	-8,685	75,4295	-0,772002	0,772002
6	10,96	19,434	-8,474	71,8108	-0,773186	0,773186
7	11,22	19,289	-8,069	65,1146	-0,719195	0,719195
8	11,13	18,794	-7,664	58,742	-0,688619	0,688619
9	10,86	18,644	-7,784	60,5861	-0,716732	0,716732
10	10,7	18,155	-7,455	55,5702	-0,696686	0,696686
11	10,64	17,998	-7,358	54,141	-0,691547	0,691547
12	10,12	17,515	-7,395	54,6823	-0,730706	0,730706
13	9,82	17,352	-7,532	56,7371	-0,767047	0,767047
14	9,66	16,875	-7,215	52,0556	-0,74689	0,74689
15	9,41	16,707	-7,297	53,2425	-0,775425	0,775425
16	9,22	16,235	-7,015	49,2125	-0,760864	0,760864
17	9,78	16,061	-6,281	39,4521	-0,642239	0,642239
Jumlah			-134,36	1073,475		12,592

Lampiran 09

PERHITUNGAN PENGUJIAN AKURASI MODEL DEKOMPOSISI ADITIF

1. **MSE** ***(Mean Square Error)***

$$MSE = \frac{\sum_{i=1}^{n}(X_t - F_t)^2}{n}$$

$$MSE = \frac{7{,}6028}{17}$$

$$MSE = 0{,}4472$$

2. **RMSE** ***(Root Mean Square Error)***

$$RMSE = \sqrt{\frac{\sum_{i=1}^{n}(X_t - F_t)^2}{n}}$$

$$RMSE = \sqrt{\frac{7{,}6028}{17}}$$

$$RMSE = 0{,}668$$

3. **MAD** ***(Mean Absolut Deviation)***

$$MAD/MAE = \left|\frac{\sum_{i=1}^{n}(X_t - F_t)}{n}\right|$$

$$MAD/MAE = \frac{10{,}718}{17}$$

$$MAD/MAE = 0{,}63$$

4. **MAPE (*Mean Absolute Percentage Error)***

$$MAPE = \frac{\sum_{i=1}^{n}\left|\frac{X_t - F_t}{X_t}\right|}{n} \times 100$$

$$MAPE = \frac{1{,}0201}{17} \times 100$$

$$MAPE = 6\%$$

Lampiran 10

PERHITUNGAN PENGUJIAN AKURASI MODEL DEKOMPOSISI MULTIPLIKATIF

1. **MSE** ***(Mean Square Error)***

$$MSE = \frac{\sum_{i=1}^{n}(X_t - F_t)^2}{n}$$

$$MSE = \frac{1073{,}475}{17}$$

$$MSE = 63{,}145$$

2. **RMSE** ***(Root Mean Square Error)***

$$RMSE = \sqrt{\frac{\sum_{i=1}^{n}(X_t - F_t)^2}{n}}$$

$$RMSE = \sqrt{\frac{1073{,}475}{17}}$$

$$RMSE = 7{,}946$$

3. **MAD** ***(Mean Absolut Deviation)***

$$MAD/MAE = \left|\frac{\sum_{i=1}^{n}(X_t - F_t)}{n}\right|$$

$$MAD/MAE = \frac{134{,}36}{17}$$

$$MAD/MAE = 7{,}90$$

4. **MAPE (*Mean Absolute Percentage Error)***

$$MAPE = \frac{\sum_{i=1}^{n}\left|\frac{X_t - F_t}{X_t}\right|}{n} \times 100$$

$$MAPE = \frac{12{,}592}{17} \times 100$$

$$MAPE = 74{,}074\%$$