

LAMPIRAN

Lampiran 1. Bukti Bimbingan Skripsi



PROGRAM STUDI STATISTIKA
SK BAN-PT No. 1765/SK/BAN-PT/IAK-PPJS/III/2022
FAKULTAS SAINS DAN TEKNOLOGI
UNIVERSITAS PGRI ADI BUANA SURABAYA

FORM F.SK05

BUKTI BIMBINGAN SKRIPSI

Nama Mahasiswa : Muhammad Rafli Nofrian Risalah
 NIM : 192400027
 Judul Skripsi : Regresi Data Panel Untuk Memodelkan Faktor –
 Faktor Yang Mempengaruhi Kemiskinan Di Jawa
 Timur Tahun 2019-2021
 Dosen Pembimbing : Alfiyahrina Hapsery, S.Si., M.Si

Materi Pembimbingan Proposal	Tanda Tangan Dosen Pembimbing
1. Bimbingan Bobot (Permedaan regresi data panel)	
2. Bimbingan Bobot (Analisis Katakarakteristika)	
3. Bimbingan estimasi parameter	
4. Bimbingan uji Chow, uji Hausman	
5. Bimbingan uji Serenfaak	
6. Bimbingan uji distribusi normal	
7. Bimbingan Fom nilai brdu	
8. Bimbingan Artikel	

Catatan: *) Coret yang tidak sesuai

Lembar ini digunakan untuk mendaftar Seminar dan Ujian Skripsi

(bimbingan skripsi minimal 8 kali)

Dibuat dengan CamScanner

Lampiran 2. Revisi Seminar dan Ujian Skripsi



PROGRAM STUDI STATISTIKA
SK BAN-PT No. 1765/SK/BAN-PT/AK-PP-JS/III/2022
FAKULTAS SAINS DAN TEKNOLOGI
UNIVERSITAS PGRI ADI BUANA SURABAYA

FORM F.SK08

PERBAIKAN/REVISI SEMINAR DAN UJIAN SKRIPSI

Nama Mahasiswa : Muhammad Rafli Nofrian Risalah
NIM : 192400027
Judul Skripsi : Regresi Data Panel Untuk Memodelakan
Faktor-Faktor Yang Mempengaruhi
Kemiskinan Di Jawa Timur Tahun 2019-2021
Dosen Pembimbing : Alfisyahrina Hapsery, M.Si.

Materi Revisi Seminar dan Ujian Skripsi	Tanda Tangan Dosen Penguji
1. Revisi Pendekatan PSM (Linda Widi)	
2. Revisi Uji Chow, Hausman	
3. Revisi Koefisien defenisi GMS	
4.	
5.	
6.	

Surabaya, 11 Juli 2023
Dosen Pembimbing,

Alfisyahrina Hapsery, M.Si.
NPP : 1804856/DY

Catatan: *) Coret yang tidak sesuai

Lembar ini digunakan untuk bukti perbaikan makalah/jurnal dan hasil ujian skripsi
Batas waktu revisi proposal dua minggu terhitung dari waktu ujian proposal

Dipindai dengan CamScanner



PROGRAM STUDI STATISTIKA
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UNIVERSITAS PGRI ADI BUANA SURABAYA

FORM F.SK08

PERBAIKAN/REVISI SEMINAR DAN UJIAN SKRIPSI

Nama Mahasiswa : Muhammad Rafli Nofrian Risalah
NIM : 192400027
Judul Skripsi : Regresi Data Panel Untuk Memodelakan
Faktor-Faktor Yang Mempengaruhi
Kemiskinan Di Jawa Timur Tahun 2019-2021
Dosen Pembimbing : Alfisyahrina Hapsery, M.Si.

Materi Revisi Seminar dan Ujian Skripsi	Tanda Tangan Dosen Penguji
1. Revisi Rumus dan Cara Kerja	
2. Revisi Uji H0	
3.	
4.	
5.	
6.	

Surabaya, 31 Juli 2023
Dosen Pembimbing,

Alfisyahrina Hapsery, M.Si.
NPP : 1804856/DY

Catatan: * Coret yang tidak sesuai

Lembar ini digunakan untuk bukti perbaikan makalah/jurnal dan hasil ujian skripsi

Lampiran 3. Data Kemiskinan di Provinsi Jawa Timur 2019-2021

NO	Tahun	Kab/Kota	Y	X1	X2	X3	X4	X5	X6	X7
1	2019	Pacitan	74.22939	28733.233	35.515406	1.605183	4.595036	80.577729	43.85426	67.271198
1	2020	Pacitan	79.18939	26971.233	35.685406	0.235183	-2.32496	81.537729	70.23426	67.421198
1	2021	Pacitan	82.55939	27806.233	35.815406	0.475183	2.005036	82.677729	69.56426	66.761198
2	2019	Ponorogo	82.33939	23422.233	36.395406	0.984817	4.525036	69.047729	73.88426	67.221198
2	2020	Ponorogo	85.10939	21653.233	36.515406	1.934817	-1.38496	70.267729	71.28426	67.941198
2	2021	Ponorogo	88.30939	22335.233	36.595406	1.864817	2.705036	76.067729	73.36426	68.631198
3	2019	Trenggalek	74.80939	26633.233	37.335406	0.844817	4.595036	83.347729	80.06426	69.941198
3	2020	Trenggalek	79.42939	25086.233	37.495406	1.594817	-2.65496	84.577729	71.32426	70.641198
3	2021	Trenggalek	83.25939	26123.233	37.605406	1.014817	3.165036	84.617729	70.58426	69.511198
4	2019	Tulungagung	68.37939	37724.233	37.695406	0.774817	4.835036	63.167729	72.89426	62.391198
4	2020	Tulungagung	74.76939	35142.233	37.825406	2.094817	-3.57496	64.257729	72.34426	63.301198
4	2021	Tulungagung	76.95939	36628.233	37.905406	2.394817	3.045036	63.957729	72.61426	62.611198
5	2019	Blitar	102.1194	31387.233	37.135406	0.534817	4.635036	71.157729	74.77426	59.031198
5	2020	Blitar	106.9194	29489.233	37.265406	1.304817	-2.77496	72.187729	62.95426	59.691198
5	2021	Blitar	110.9894	30721.233	37.355406	1.144817	2.535036	75.767729	63.08426	60.481198
6	2019	Kediri	162.3194	26151.233	36.285406	1.064817	4.575036	76.967729	71.56426	69.171198
6	2020	Kediri	178.2994	24884.233	36.355406	2.724817	-2.89496	77.997729	74.45426	69.991198
6	2021	Kediri	182.8594	25960.233	36.395406	2.634817	2.575036	76.887729	74.46426	68.561198
7	2019	Malang	244.9694	39779.233	36.195406	1.184817	5.005036	87.647729	73.90426	53.181198
7	2020	Malang	263.9294	38494.233	36.295406	2.974817	-3.16496	87.947729	54.87426	53.471198
7	2021	Malang	274.9494	40113.233	36.355406	2.884817	2.635036	87.637729	58.10426	55.311198
8	2019	Lumajang	97.24939	31292.233	33.685406	0.214817	4.125036	56.267729	50.81426	44.211198
8	2020	Lumajang	100.9694	28706.233	33.845406	0.844817	-3.27496	54.817729	45.32426	44.701198
8	2021	Lumajang	103.6194	29880.233	33.955406	0.994817	2.655036	57.997729	48.04426	46.291198
9	2019	Jember	224.9394	31497.233	32.735406	1.174817	5.025036	87.597729	60.70426	59.951198
9	2020	Jember	246.3594	30022.233	32.895406	2.604817	-3.46496	86.167729	59.74426	59.801198
9	2021	Jember	255.4594	31786.233	33.025406	2.924817	3.515036	90.447729	62.45426	60.711198
10	2019	Banyuwangi	119.7394	51787.233	34.285406	1.434817	5.065036	68.397729	71.93426	62.161198
10	2020	Banyuwangi	128.7394	47566.233	34.395406	2.824817	-4.06496	69.417729	70.42426	62.071198

NO	Tahun	Kab/Kota	Y	X1	X2	X3	X4	X5	X6	X7
10	2021	Banyuwangi	129.2994	49995.233	34.465406	2.904817	3.595036	74.997729	71.99426	61.761198
11	2019	Bondowoso	101.6994	25583.233	30.295406	0.344817	4.815036	59.887729	59.28426	48.731198
11	2020	Bondowoso	108.6094	25705.233	30.485406	1.614817	-1.84496	61.127729	64.45426	49.141198
11	2021	Bondowoso	113.5494	27040.233	30.635406	1.944817	3.005036	64.697729	63.86426	49.661198
12	2019	Situbondo	74.80939	29577.233	32.715406	0.254817	4.955036	70.157729	67.05426	57.991198
12	2020	Situbondo	82.10939	29243.233	32.875406	1.334817	-2.81496	71.097729	57.88426	58.401198
12	2021	Situbondo	85.31939	30799.233	32.985406	1.164817	2.775036	74.217729	58.18426	58.311198
13	2019	Probolinggo	205.5894	29093.233	30.745406	1.254817	4.075036	50.967729	62.79426	37.701198
13	2020	Probolinggo	216.7194	29279.233	30.945406	2.344817	-2.60496	51.637729	53.25426	38.101198
13	2021	Probolinggo	221.6894	30802.233	31.105406	2.034817	2.865036	60.937729	52.99426	38.241198
14	2019	Pasuruan	139.4594	89580.233	33.915406	2.704817	5.345036	64.707729	51.71426	45.961198
14	2020	Pasuruan	149.7994	90746.233	33.975406	3.724817	-2.51496	65.497729	58.05426	46.161198
14	2021	Pasuruan	158.1494	97499.233	33.995406	3.514817	3.855036	66.687729	57.30426	45.331198
15	2019	Sidoarjo	117.6594	90617.233	37.725406	2.104817	5.505036	124.90773	65.26426	70.631198
15	2020	Sidoarjo	125.4194	94817.233	37.785406	8.454817	-4.17496	119.74773	79.98426	71.221198
15	2021	Sidoarjo	135.5194	100693.23	37.805406	8.354817	3.725036	120.21773	80.07426	70.771198
16	2019	Mojokerto	107.1794	73650.233	36.175406	1.094817	5.325036	83.827729	68.15426	75.341198
16	2020	Mojokerto	117.1694	73334.233	36.275406	3.234817	-1.59496	82.437729	73.94426	75.261198
16	2021	Mojokerto	118.9094	77529.233	36.335406	3.024817	3.635036	82.477729	74.96426	75.391198
17	2019	Jombang	114.8094	32004.233	36.015406	1.764817	4.615036	87.287729	68.02426	73.361198
17	2020	Jombang	124.3094	30302.233	36.145406	4.964817	-2.46496	85.817729	79.81426	73.231198
17	2021	Jombang	125.6694	31485.233	36.235406	4.574817	2.755036	90.257729	83.01426	73.491198
18	2019	Nganjuk	116.8794	25268.233	35.185406	0.644817	4.875036	67.347729	70.15426	63.791198
18	2020	Nganjuk	121.0994	24133.233	35.285406	2.284817	-2.19496	67.237729	73.81426	63.831198
18	2021	Nganjuk	123.8994	25279.233	35.345406	2.464817	3.125036	70.997729	75.81426	65.141198
19	2019	Madiun	70.27939	27723.233	34.965406	1.004817	4.935036	80.507729	68.66426	74.381198
19	2020	Madiun	76.66939	25474.233	35.125406	2.284817	-2.17496	80.337729	71.14426	74.291198
19	2021	Madiun	79.97939	26341.233	35.245406	2.474817	2.855036	87.217729	71.32426	73.871198
20	2019	Magetan	58.79939	29745.233	36.235406	0.464817	4.555036	93.757729	64.33426	78.511198
20	2020	Magetan	63.45939	28023.233	36.335406	1.224817	-2.12496	94.757729	80.67426	79.661198

NO	Tahun	Kab/Kota	Y	X1	X2	X3	X4	X5	X6	X7
20	2021	Magetan	66.11939	29055.233	36.395406	1.344817	2.555036	95.247729	80.98426	80.121198
21	2019	Ngawi	117.7994	24407.233	35.905406	1.084817	4.565036	86.077729	53.68426	71.651198
21	2020	Ngawi	126.5594	23322.233	36.045406	2.924817	-2.17496	86.507729	69.77426	73.151198
21	2021	Ngawi	129.1794	23832.233	36.155406	1.734817	2.065036	86.587729	71.07426	73.411198
22	2019	Bojonegoro	153.0094	62445.233	35.105406	1.044817	5.855036	72.457729	77.27426	64.301198
22	2020	Bojonegoro	159.4694	54047.233	35.305406	2.404817	-0.88496	73.497729	73.38426	64.361198
22	2021	Bojonegoro	164.8894	63810.233	35.465406	2.304817	-6.02496	72.587729	72.84426	63.361198
23	2019	Tuban	169.1694	55400.233	35.005406	0.184817	4.655036	66.437729	66.64426	56.491198
23	2020	Tuban	185.4994	52084.233	35.175406	2.294817	-6.33496	66.787729	57.86426	55.791198
23	2021	Tuban	190.9494	54774.233	35.305406	2.164817	2.515036	65.247729	58.17426	56.101198
24	2019	Lamongan	155.4794	33108.233	36.015406	1.374817	4.945036	83.057729	65.18426	63.401198
24	2020	Lamongan	163.0494	29220.233	36.145406	2.614817	-3.13496	84.227729	62.15426	6063.7912
24	2021	Lamongan	165.1894	30266.233	36.235406	2.384817	2.945036	86.497729	64.39426	67.421198
25	2019	Gresik	146.9794	105675.23	36.355406	2.884817	4.935036	95.677729	53.75426	78.931198
25	2020	Gresik	162.4194	102622.23	36.405406	5.694817	-4.16496	95.377729	78.10426	59.791198
25	2021	Gresik	164.7194	109372.23	36.415406	5.484817	3.305036	101.60773	78.29426	80.271198
26	2019	Bangkalan	184.4794	24977.233	33.855406	3.104817	0.545036	50.227729	36.60426	39.711198
26	2020	Bangkalan	202.3694	22037.233	33.925406	6.254817	-6.07496	50.387729	43.09426	79.501198
26	2021	Bangkalan	214.3394	23013.233	33.965406	5.554817	-2.55496	51.317729	43.90426	41.401198
27	2019	Sampang	200.5794	20190.233	31.705406	0.194817	1.365036	56.967729	53.56426	41.141198
27	2020	Sampang	223.1094	20502.233	31.775406	0.834817	-0.77496	57.827729	50.23426	40.251198
27	2021	Sampang	235.5994	21096.233	31.815406	0.934817	-0.26496	56.857729	49.91426	41.571198
28	2019	Pamekasan	120.7994	19330.233	31.195406	0.255183	4.435036	74.377729	67.64426	59.851198
28	2020	Pamekasan	127.7794	19778.233	31.325406	0.974817	-3.02496	74.587729	65.73426	42.051198
28	2021	Pamekasan	135.4894	20689.233	31.415406	0.584817	2.925036	75.157729	68.53426	62.311198
29	2019	Sumenep	210.3494	30568.233	34.965406	0.435183	-0.34496	76.887729	57.34426	64.891198
29	2020	Sumenep	218.5994	29165.233	35.155406	0.324817	-1.61496	77.327729	66.55426	60.671198
29	2021	Sumenep	223.0994	31144.233	35.305406	0.205183	2.125036	83.637729	68.58426	65.731198
30	2019	Kota Kediri	18.90939	483981.23	37.705406	1.634817	4.985036	91.087729	65.17426	79.291198

NO	Tahun	Kab/Kota	Y	X1	X2	X3	X4	X5	X6	X7
30	2020	Kota Kediri	20.55939	462198.23	37.765406	3.694817	-6.73496	88.447729	79.34426	64.801198
30	2021	Kota Kediri	20.91939	491269.23	37.785406	3.854817	2.015036	89.887729	79.66426	80.391198
31	2019	Kota Blitar	8.46939	47840.233	37.345406	2.024817	5.355036	104.45773	72.31426	83.011198
31	2020	Kota Blitar	9.46939	45089.233	37.495406	4.164817	-2.76496	100.22773	82.41426	78.981198
31	2021	Kota Blitar	9.69939	47306.233	37.605406	4.094817	3.795036	100.40773	83.79426	84.811198
32	2019	Kota Malang	33.75939	83527.233	36.895406	3.364817	5.245036	91.867729	78.82426	64.781198
32	2020	Kota Malang	37.13939	85539.233	37.015406	7.094817	-2.74496	92.657729	77.03426	83.971198
32	2021	Kota Malang	38.98939	90678.233	37.105406	7.134817	3.725036	95.327729	76.92426	65.011198
33	2019	Kota Probolinggo	14.73939	47803.233	33.935406	1.734817	5.455036	90.427729	68.84426	72.501198
33	2020	Kota Probolinggo	16.08939	46301.233	34.035406	4.184817	-4.12496	92.207729	73.75426	64.901198
33	2021	Kota Probolinggo	16.27939	48506.233	34.095406	4.034817	3.575036	91.307729	75.29426	72.521198
34	2019	Kota Pasuruan	11.28939	41324.233	35.145406	2.374817	5.075036	82.707729	69.35426	62.541198
34	2020	Kota Pasuruan	11.76939	38773.233	35.265406	3.814817	-4.81496	80.867729	68.41426	72.401198
34	2021	Kota Pasuruan	12.33939	40524.233	35.345406	3.714817	3.155036	81.817729	68.21426	63.241198
35	2019	Kota Mojokerto	4.99939	52535.233	36.955406	0.114817	5.165036	100.73773	64.87426	80.001198
35	2020	Kota Mojokerto	6.45939	49839.233	37.065406	4.224817	-4.17496	99.327729	72.75426	63.421198
35	2021	Kota Mojokerto	6.73939	52040.233	37.135406	4.354817	3.165036	98.007729	72.64426	78.711198
36	2019	Kota Madiun	6.05939	79653.233	36.495406	1.444817	5.205036	90.147729	72.43426	81.091198
36	2020	Kota Madiun	7.19939	70744.233	36.555406	5.804817	-3.87496	90.867729	89.73426	79.921198
36	2021	Kota Madiun	7.42939	74649.233	36.575406	5.634817	4.245036	90.287729	89.44426	80.711198
37	2019	Kota Surabaya	128.9194	200358.23	37.875406	3.244817	5.605036	91.457729	67.66426	65.541198
37	2020	Kota Surabaya	144.0394	193009.23	37.925406	7.274817	-5.33496	90.907729	59.95426	81.091198
37	2021	Kota Surabaya	150.8594	204919.23	37.925406	7.164817	3.805036	93.837729	62.59426	66.361198
38	2019	Kota Batu	6.25939	81460.233	36.285406	0.095183	6.025036	101.68773	69.36426	73.681198
38	2020	Kota Batu	6.48939	74883.233	36.355406	3.414817	-6.94496	99.647729	67.86426	65.521198
38	2021	Kota Batu	6.99939	78457.233	36.395406	4.054817	3.555036	102.14773	69.60426	73.101198

Lampiran 4. Statistika Deskriptif dengan Minitab
Descriptive Statistics: Y, X1, X2, X3, X4, X5, X6, X7

Statistics

Variable	Mean	StDev	Minimum	Maximum
Y	113.32	70.49	5.00	274.95
X1	59283	77332	19330	491269
X2	35.370	1.976	30.295	37.925
X3	2.417	1.961	-1.605	8.455
X4	1.306	3.694	-6.945	6.025
X5	80.45	15.16	50.23	124.91
X6	67.379	10.135	36.604	89.734
X7	117.1	562.0	37.7	6063.8

Lampiran 4 Multikolinieritas

Lampiran 5. CEM

Dependent Variable: Y

Method: Panel Least Squares

Date: 06/20/23 Time: 04:30

Sample: 2019 2021

Periods included: 3

Cross-sections included: 38

Total panel (balanced) observations: 114

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	471.5329	116.0636	4.062712	0.0001
Z1	-0.000123	8.14E-05	-1.511974	0.1335
Z2	-4.015588	3.942233	-1.018607	0.3107
Z3	4.581591	3.583710	1.278449	0.2039
Z4	-0.496905	1.728728	-0.287440	0.7743
Z5	-0.646498	0.539847	-1.197558	0.2338
Z6	-2.492709	0.708759	-3.517005	0.0006
Z7	0.005584	0.010374	0.538232	0.5915

Root MSE

58.93064

R-squared

0.294978

Mean dependent var	113.3178	Adjusted R-squared	0.248420
S.D. dependent var	70.49414	S.E. of regression	61.11399
Akaike info criterion	11.13095	Sum squared resid	395901.5
Schwarz criterion	11.32296	Log likelihood	-626.4642
Hannan-Quinn criter.	11.20888	F-statistic	6.335700
Durbin-Watson stat	0.115405	Prob(F-statistic)	0.000003

Lampiran 6. FEM Individu

Dependent Variable: Y?

Method: Pooled EGLS (Cross-section weights)

Date: 06/20/23 Time: 04:33

Sample: 1 3

Included observations: 3

Cross-sections included: 38

Total pool (balanced) observations: 114

Linear estimation after one-step weighting matrix

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1121.711	96.88583	-11.57765	0.0000
Z1?	3.60E-05	0.000104	0.345384	0.7309
Z2?	34.71911	2.963938	11.71385	0.0000
Z3?	1.612209	0.339645	4.746749	0.0000
Z4?	-0.036338	0.082116	-0.442518	0.6595
Z5?	0.098923	0.136158	0.726536	0.4700
Z6?	-0.102812	0.026314	-3.907081	0.0002
Z7?	7.52E-05	6.98E-05	1.077131	0.2852
Fixed Effects (Cross)				
1--C	-39.62302			
2--C	-63.28454			
3--C	-103.8074			
4--C	-120.5480			
5--C	-67.97107			
6--C	29.90264			
7--C	115.8785			
8--C	45.04041			
9--C	215.1000			
10--C	48.65648			
11--C	169.0347			
12--C	58.29911			
13--C	258.7932			
14--C	82.34188			

15--C	-81.35927
16--C	-30.18677
17--C	-19.08771
18--C	14.74390
19--C	-26.64184
20--C	-80.79834
21--C	-10.67173
22--C	50.70059
23--C	78.06377
24--C	22.04314
25--C	2.469656
26--C	134.8615
27--C	236.4170
28--C	160.7642
29--C	116.7867
30--C	-192.2906
31--C	-179.4477
32--C	-140.2116
33--C	-52.37762
34--C	-98.17885
35--C	-167.7441
36--C	-149.9916
37--C	-72.41215
38--C	-143.2636

Effects Specification

Cross-section fixed (dummy variables)

Weighted Statistics

Root MSE	3.772657	R-squared	0.999665
Mean dependent var	487.5169	Adjusted R-squared	0.999451
S.D. dependent var	1478.630	S.E. of regression	4.849258
Sum squared resid	1622.556	F-statistic	4676.271
Durbin-Watson stat	2.010963	Prob(F-statistic)	0.000000

Unweighted Statistics

R-squared	0.996522	Mean dependent var	113.3178
Sum squared resid	1952.935	Durbin-Watson stat	1.687184

Lampiran 7. FEM Waktu

Dependent Variable: Y?

Method: Pooled Least Squares

Date: 06/20/23 Time: 04:35

Sample: 1 3

Included observations: 3

Cross-sections included: 38

Total pool (balanced) observations: 114

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	469.9249	116.4024	4.037072	0.0001
Z1?	-0.000121	8.25E-05	-1.462749	0.1466
Z2?	-3.997013	3.975197	-1.005488	0.3170
Z3?	3.160996	3.840293	0.823113	0.4123
Z4?	-2.393376	3.960495	-0.604312	0.5470
Z5?	-0.565854	0.545594	-1.037134	0.3021
Z6?	-2.490148	0.736248	-3.382214	0.0010
Z7?	0.006104	0.010428	0.585331	0.5596
Fixed Effects (Period)				
1--C	-0.405816			
2--C	-11.42964			
3--C	11.83546			

Effects Specification

Period fixed (dummy variables)

Root MSE	58.51098	R-squared	0.304984
Mean dependent var	113.3178	Adjusted R-squared	0.244838
S.D. dependent var	70.49414	S.E. of regression	61.25945
Akaike info criterion	11.15174	Sum squared resid	390282.9
Schwarz criterion	11.39176	Log likelihood	-625.6494
Hannan-Quinn criter.	11.24915	F-statistic	5.070749
Durbin-Watson stat	0.110581	Prob(F-statistic)	0.000011

Lampiran 8. FEM ANTAR INDIVIDU DAN WAKTU

Dependent Variable: Y?

Method: Pooled Least Squares
Date: 06/20/23 Time: 04:36
Sample: 1 3
Included observations: 3
Cross-sections included: 38
Total pool (balanced) observations: 114

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	908.9816	503.1865	1.806451	0.0753
Z1?	0.000147	0.000190	0.773863	0.4417
Z2?	-22.54599	14.27337	-1.579584	0.1189
Z3?	-0.802918	0.852181	-0.942193	0.3495
Z4?	-0.141157	0.369737	-0.381777	0.7038
Z5?	0.082700	0.324394	0.254938	0.7996
Z6?	-0.170103	0.098145	-1.733178	0.0877
Z7?	-4.91E-05	0.000958	-0.051271	0.9593
Fixed Effects (Cross)				
1--C	-26.90395			
2--C	3.954419			
3--C	18.15627			
4--C	20.14697			
5--C	39.44362			
6--C	89.21307			
7--C	169.9515			
8--C	-45.84119			
9--C	75.25459			
10--C	-6.774743			
11--C	-110.9993			
12--C	-86.38133			
13--C	5.497593			
14--C	-0.732543			
15--C	62.82146			
16--C	19.76539			
17--C	31.73945			
18--C	11.74203			
19--C	-38.65774			
20--C	-25.48581			
21--C	30.11326			
22--C	45.13911			
23--C	63.87286			
24--C	68.25868			

25--C	61.78815
26--C	59.07204
27--C	28.46152
28--C	-72.10246
29--C	100.5092
30--C	-100.4014
31--C	-53.40192
32--C	-40.27197
33--C	-125.5071
34--C	-100.5729
35--C	-68.87760
36--C	-78.73800
37--C	65.75192
38--C	-89.00321
Fixed Effects (Period)	
1--C	-10.10079
2--C	2.009233
3--C	8.091556

Effects Specification			
Cross-section fixed (dummy variables)			
Period fixed (dummy variables)			
Root MSE	3.538185	R-squared	0.997459
Mean dependent var	113.3178	Adjusted R-squared	0.995714
S.D. dependent var	70.49414	S.E. of regression	4.615254
Akaike info criterion	6.189666	Sum squared resid	1427.138
Schwarz criterion	7.317748	Log likelihood	-305.8110
Hannan-Quinn criter.	6.647492	F-statistic	571.6500
Durbin-Watson stat	1.760136	Prob(F-statistic)	0.000000

Lampiran 9. REM

Dependent Variable: Y

Method: Panel EGLS (Cross-section random effects)

Date: 06/20/23 Time: 04:31

Sample: 2019 2021

Periods included: 3

Cross-sections included: 38

Total panel (balanced) observations: 114

Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	12.98090	163.7376	0.079279	0.9370
Z1	-0.000117	0.000117	-0.993473	0.3227
Z2	1.719413	5.004136	0.343598	0.7318
Z3	3.662662	0.655208	5.590077	0.0000
Z4	0.065715	0.195136	0.336766	0.7370
Z5	0.638090	0.319851	1.994960	0.0486
Z6	-0.205517	0.110002	-1.868295	0.0645
Z7	1.30E-05	0.001085	0.011975	0.9905

Effects Specification

	S.D.	Rho
Cross-section random	63.41639	0.9932
Idiosyncratic random	5.243946	0.0068

Weighted Statistics

Root MSE	5.873401	R-squared	0.314010
Mean dependent var	5.403807	Adjusted R-squared	0.268708
S.D. dependent var	7.122687	S.E. of regression	6.091008
Sum squared resid	3932.640	F-statistic	6.931589
Durbin-Watson stat	1.153681	Prob(F-statistic)	0.000001

Unweighted Statistics

R-squared	-0.119788	Mean dependent var	113.3178
Sum squared resid	628810.9	Durbin-Watson stat	0.007215

Lampiran 10. Uji Chow

Redundant Fixed Effects Tests

Equation: Untitled

Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	387.242137	(37,69)	0.0000
Cross-section Chi-square	608.835899	37	0.0000

Cross-section fixed effects test equation:
 Dependent Variable: Y
 Method: Panel Least Squares
 Date: 06/20/23 Time: 05:11
 Sample: 2019 2021
 Periods included: 3
 Cross-sections included: 38
 Total panel (balanced) observations: 114

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	471.5329	116.0636	4.062712	0.0001
Z1	-0.000123	8.14E-05	-1.511974	0.1335
Z2	-4.015588	3.942233	-1.018607	0.3107
Z3	4.581591	3.583710	1.278449	0.2039
Z4	-0.496905	1.728728	-0.287440	0.7743
Z5	-0.646498	0.539847	-1.197558	0.2338
Z6	-2.492709	0.708759	-3.517005	0.0006
Z7	0.005584	0.010374	0.538232	0.5915
Root MSE	58.93064	R-squared		0.294978
Mean dependent var	113.3178	Adjusted R-squared		0.248420
S.D. dependent var	70.49414	S.E. of regression		61.11399
Akaike info criterion	11.13095	Sum squared resid		395901.5
Schwarz criterion	11.32296	Log likelihood		-626.4642
Hannan-Quinn criter.	11.20888	F-statistic		6.335700
Durbin-Watson stat	0.115405	Prob(F-statistic)		0.000003

Lampiran 11. Uji Hausman

Dependent Variable: Y
 Method: Panel EGLS (Cross-section random effects)
 Date: 06/20/23 Time: 05:12
 Sample: 2019 2021
 Periods included: 3
 Cross-sections included: 38
 Total panel (balanced) observations: 114
 Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	12.98090	163.7376	0.079279	0.9370
Z1	-0.000117	0.000117	-0.993473	0.3227
Z2	1.719413	5.004136	0.343598	0.7318
Z3	3.662662	0.655208	5.590077	0.0000
Z4	0.065715	0.195136	0.336766	0.7370
Z5	0.638090	0.319851	1.994960	0.0486
Z6	-0.205517	0.110002	-1.868295	0.0645
Z7	1.30E-05	0.001085	0.011975	0.9905

Effects Specification		S.D.	Rho
Cross-section random		63.41639	0.9932
Idiosyncratic random		5.243946	0.0068

Weighted Statistics			
Root MSE	5.873401	R-squared	0.314010
Mean dependent var	5.403807	Adjusted R-squared	0.268708
S.D. dependent var	7.122687	S.E. of regression	6.091008
Sum squared resid	3932.640	F-statistic	6.931589
Durbin-Watson stat	1.153681	Prob(F-statistic)	0.000001

Unweighted Statistics			
R-squared	-0.119788	Mean dependent var	113.3178
Sum squared resid	628810.9	Durbin-Watson stat	0.007215

LAMPIRAN 12

Heteroskedasticity Test: Glejser
Null hypothesis: Homoskedasticity

F-statistic	3.023560	Prob. F(7,106)	0.0062
Obs*R-squared	18.97379	Prob. Chi-Square(7)	0.0083
Scaled explained SS	15.67113	Prob. Chi-Square(7)	0.0283

Test Equation:

Dependent Variable: ARESID
 Method: Least Squares
 Date: 06/21/23 Time: 22:43
 Sample: 1 114
 Included observations: 114

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	111.3297	64.41762	1.728250	0.0869
Z1	-0.000109	4.52E-05	-2.411637	0.0176
Z2	-2.526732	2.188018	-1.154804	0.2508
Z3	-0.957218	1.989031	-0.481248	0.6313
Z4	-0.545600	0.959479	-0.568642	0.5708
Z5	1.093725	0.299626	3.650302	0.0004
Z6	-0.697578	0.393375	-1.773314	0.0790
Z7	-0.010336	0.005758	-1.795068	0.0755
R-squared	0.166437	Mean dependent var		52.25120
Adjusted R-squared	0.111390	S.D. dependent var		35.98270
S.E. of regression	33.91949	Akaike info criterion		9.953448
Sum squared resid	121956.4	Schwarz criterion		10.14546
Log likelihood	-559.3465	Hannan-Quinn criter.		10.03138
F-statistic	3.023560	Durbin-Watson stat		0.835003
Prob(F-statistic)	0.006155			

LAMPIRAN 13

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		114
Normal Parameters ^{a,b}	Mean	,0000000
	Std. Deviation	59,19081750
Most Extreme Differences	Absolute	,038
	Positive	,038
	Negative	-,034
Test Statistic		,038

Asymp. Sig. (2-tailed)

,200^{c,d}

- a. Test distribution is Normal.
- b. Calculated from data.
- c. Lilliefors Significance Correction.
- d. This is a lower bound of the true significance.